Chinook Salmon Coastal Release in Monterey Harbor

CEQA: INITIAL STUDY AND NEGATIVE DECLARATION

CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE, FISHERIES BRANCH

Contents

INITIAL STUDY AND NEGATIVE DECLARATION FOR FALL-RUN CHINOOK SALMON (
MONTEREY HARBOR	2
Introduction	2
The Findings	2
Basis of the Findings	2
Project Description and Background Information for Fall-Run Chinook Salmon Coa	
Introduction	3
Project Objective	3
Background	3
Project Location	4
Schedule	4
Project Description	4
Environmental Assessment	5
References	5
Initial Study Environmental Checklist	8
Initial Study (cont): Environmental Factors, Determination, Evaluation of Environr Explanations	· · · · · · · · · · · · · · · · · · ·
Exhibit A: Statement of Work	25
Exhibit B: California Coastal Commission Notice of Permit Waiver	27
Exhibit C: City of Monterey Zoning Review Letter	28
Exhibit D: City of Monterey Harbor and Marina Division	29
Exhibit E: Monterey Bay National Marine Sanctuary Statement	30
Exhibit F: Project Location and Quadrants Identification Map	31
Exhibit G: CNDDB Elements Report	32
Exhibit H: Tribal Support Letters	38

INITIAL STUDY AND NEGATIVE DECLARATION FOR FALL-RUN CHINOOK SALMON COASTAL RELEASE IN MONTEREY HARBOR

Introduction

The Monterey Bay Salmon and Trout Project (MBSTP) is a membership-based nonprofit 501c3 organization dedicated to the recovery of native salmon and steelhead populations of the greater Monterey Bay region. MBSTP has been operating coastal salmon releases in Monterey Harbor from the 1990's through 2002. MBSTP proposes to release 160,000 juvenile hatchery-origin (HO) Central Valley fall-run Chinook Salmon (CV FRCS) *Oncorhynchus tshawytscha* from Monterey Harbor in 2020 and again in 2021. The 2020 and 2021 releases are the Project as described and evaluated in this Initial Study and Negative Declaration. Under the direction of the California Department of Fish and Wildlife (CDFW), MBSTP would be responsible each spring for the release of 160,000 CV FRCS smolts from the Mokelumne River Fish Hatchery. The Project's objective is to increase the number of ocean Chinook Salmon landings in California enhancing local sport and commercial fisheries. Released smolts would feed and grow along the coast and be available for harvest as adults in one to three years.

The Findings

CDFW finds that the Project would not have a significant effect on the environment.

The completed Initial Study, attached to this negative declaration, documents the bases for this finding, and CDFW's determination that clearly no significant effect on the environment would occur as a result of Project implementation, and there is no substantial evidence, in light of the whole record before CDFW, that the Project may have a significant effect on the environment (see Initial Study and environmental checklist). Therefore, a Negative Declaration has been prepared pursuant to the California Environmental Quality Act, Public Resource Code Section 21080, subd. (c)(1).

The Initial Study concluded that the Project would have less than significant impacts to biological resources, greenhouse gas emissions, and public services. The Project would have no impacts to aesthetics, agriculture and forestry, air quality, cultural resources, energy, geology/soils, hazards/hazardous materials, hydrology/water quality, land use/planning, mineral resources, noise, population/housing, recreation, transportation, tribal cultural resources, utilities/service systems, and wildfire.

Basis of the Findings

The proposed Negative Declaration consists of the following:

- Project Description and Background Information for Fall-Run Chinook Salmon Coastal Release in Monterey Harbor
- Initial Study Environmental Checklist
- Exhibit A: Statement of Work
- Exhibit B: California Coastal Commission Notice of Permit Waiver
- Exhibit C: City of Monterey Zoning Review Letter
- Exhibit D: City of Monterey Harbor and Marina Division
- Exhibit E: Monterey Bay National Marine Sanctuary Statement
- Exhibit F: Project Location and Quadrants Identification Map
- Exhibit G: CNDDB Elements Report

Project Description and Background Information for Fall-Run Chinook Salmon Coastal Release in Monterey Harbor

Introduction

MBSTP Chinook Salmon Coastal Release Project in Monterey Harbor is a project within the meaning of the California Environmental Quality Act (CEQA) (Public Resource Code, § 21000 et seq). CDFW is serving as lead agency for the Project because it has discretionary approval over the Project. Specifically, CDFW would provide juvenile fish (smolts) necessary for the Project implementation from the Mokelumne River Hatchery (MOK) and would deliver those fish to the Monterey Harbor for their release.

The Commercial Salmon Trollers Advisory Committee (Salmon Stamp Committee) and CDFW support this project. The cost for raising, marking and tagging, and delivery of CV FRCS smolts to Monterey Harbor will be covered by the Commercial Salmon Trollers Enhancement and Restoration Program fund and a matching share contributed by CDFW. MBSTP will provide any additional funding needed for program operations.

This initial study and negative declaration analyze the environmental impacts that may result from the implementation of the proposed Project.

Project Objective

The Project's objective is to enhance Central California's local sport and commercial fisheries. Released smolts will feed and grow along the coast and be available for harvest as adults in one to three years.

Background

Adult returns of CV FRCS have fluctuated over the past 30 years (CDFW 2018). Record high numbers occurred between 2000 and 2003 with an estimated 872,699 returning to the Central Valley (CV) during the 2002 spawning season. In contrast, between 2003 and 2009, returns declined significantly to record low levels. During the 2007 spawning season, an estimated 97,168 adults returned to the Central Valley. Return estimates dipped further during the 2008 season to 71,291 adults. Adult return estimates increased slowly over the next few years and reached a high of 447,621 in 2013. However, California's recent drought significantly affected survival of juvenile salmon migrating to the ocean. In 2017, only 101,222 adults returned to the CV. In addition to the drought, other factors such as loss of habitat, poor ocean conditions, low river flows, water diversions, pollution, and predation contributed to the population declines.

In an effort to improve survival to adulthood by avoiding the hazards associated with migration, CDFW transports CV FRCS downstream and releases them into net pens in the Sacramento-San Joaquin Delta or San Pablo Bay for acclimation, or directly into the Bay. It has been found that hatchery fish released into coastal net pens have higher survival rates and higher recovery rates in ocean fisheries (Palmer-Zwahlen, et al., 2019, Leet, W.S. et al. 1986). Net pens provide fish the opportunity to develop schooling behavior and acclimate to local water salinity and temperature.

The MBSTP has conducted coastal net pen releases within Monterey Bay since 1992. Beginning in 2009, 100% of fish released were adipose fin-clipped and Coded Wire Tag (CWT) with a unique tag code. The first three years of CWT recovery data shows a consistent trend that bay net pen releases have a higher recovery rate than in-basin (at the hatchery) releases, and this can mean better survival (Palmer-

Zwahlen and Kormos 2015). However, net pen fish exhibited higher stray proportions than in-basin releases (Palmer-Zwahlen, et al. 2019).

"Homing" and "straying" are well-known behavioral traits in the ecology and life-history of Pacific Salmon (Quinn 2005). Homing may be defined as the instinctual ability of an adult Pacific Salmon to return to its natal stream to spawn. In contrast, straying may be defined as an adult migrating to a non-natal steam of origin. Studies have shown that salmon imprint as they migrate downstream and individuals that are released further downstream may show increased straying as compared to upriver releases (Quinn 2018, 127). Adult Chinook have been observed straying into several streams along the Central Coast as well as many San Francisco Bay streams for the past two decades, although historically these streams did have native runs of Chinook Salmon (Neillands et al. 2015). In 2014, CDFW began annual observation monitoring for straying CV FRCS into a few Central Coast streams and receiving adipose fin-clipped Chinook Salmon heads from cooperating agencies and NGOs throughout the San Francisco Bay streams. CWT fish released in Monterey Bay area appear to enter in relatively small numbers into coastal and Bay streams between their release point and the Sacramento-San Joaquin Delta when streams are accessible (Neillands et al. 2015, 2016, 2018 and 2019).

Project Location

Primary and secondary release methods will utilize Municipal Wharf 2 in Monterey Harbor (36.605514°, -121.889288°) 2020 and 2021.

Backup release method option one will use the boat ramp near the base of Coast Guard pier (36.608966°, -121.893299°) to discharge fish in the harbor or, if necessary, into a floating net barge.

Backup release method option two (emergency only) will release fish from Santa Cruz Harbor location used in Project Chinook Salmon Coastal Net Pen Project in Santa Cruz Harbor (36.964136°, - 122.001816°) with approval of CDFW, Coastal Salmon Trollers Advisory Committee and Santa Cruz Harbor personnel.

Schedule

CDFW would deliver MOK CV FRCS smolts to Monterey Harbor in spring of 2020 and 2021. Exact dates and times would be scheduled as the time draws near and are dependent on fish size, growth rates, and environmental conditions in Monterey Harbor and Monterey Bay.

Project Description

All Project fish would be evaluated by a CDFW Fish Health pathologist and certified to be disease-free prior to leaving the hatchery. Fish will also be marked with Coded-Wire Tags (CWT) and adipose finclipped at a 100% rate for both years of the Project (2020 and 2021) to allow for evaluation of potential benefits and impacts of the Project. All smolts would be transported from MOK to Monterey Harbor in a single trip using 2-4 fish transport trucks. Trucks would be loaded, and fish transported according to MOK established standard operating procedures for transportation of salmon. Water in the trucks would be salted prior to adding fish at the hatchery.

MBSTP, in anticipation of fish delivery from MOK to the Monterey Harbor, has secured necessary equipment and developed multiple release protocols to accommodate potential changing bay conditions. MBSTP would release smolts from the trucks directly into Monterey Harbor, via a 10-inch, gravity-fed pipe. MBSTP would provide both staffing and logistical support to facilitate release of fish at

the Project location. This includes a 'tender' vessel provided and operated by MBSTP to assist in release of smolts from the height of the wharf to the water surface.

Smolts may be held if environmental conditions require alteration of release methods. In this case, fish would be held in a floating net barge for no more than 48 hours prior to release into the harbor. A floating net barge owned by Commercial Salmon Trollers Advisory Committee (CSTAC) and stored at Mokelumne River Hatchery would be assembled in advance of hatchery truck arrival, to be available if deemed necessary for acclimation prior to release.

The location of release is unchanged with or without use of the net barge and no feeding of fish would occur in the harbor with either release method. If a net barge is used, fish would be released at Wharf 2 location and not towed.

No active predator deterrent for marine mammals or seabirds is planned as part of the Project. Past predation events were attributed to net pen acclimation as well as the nearness of the release location to the largest numbers of sea lions in the harbor (Ben Harris, personal communication, December 9, 2019). The proposed location is on the opposite side of the harbor of these prior releases, and the elimination of net pen acclimation will prevent predators from adjusting to smolts as potential food sources. Past enhancement program operations in Monterey Bay have indicated that releases timed to coincide with a large outgoing tide have produced positive results by helping smolts avoid post-release predation and mortality. Dusk or night-time releases have also been proposed as a method for reducing post-release predation, particularly by seabirds. MBSTP will adapt schedule and release timing with CDFW and CSTAC to work within these optimal tidal and timing windows.

The Project would release 160,000 fish in 2020 and an additional 160,000 fish in 2021. The two-year total release from Monterey Harbor would be 320,000. When combined with other releases in Monterey Bay, the total release would be 280,000 fish in 2020. The total release would be 160,000 fish in 2021 or 280,000 fish in 2021 if previously approved Chinook Salmon Coastal Net Pen Project in Santa Cruz Harbor continues at current release rate.

This project is contingent upon CDFW approval after completion of CEQA. Project result data would be acquired from CDFW landings, carcass surveys, and monitoring programs.

Environmental Assessment

CDFW staff reviewed this project. It was determined that this project would have less than significant impact to Biological Resources, Greenhouse Gas Emissions, and Public Services at Monterey Harbor and surrounding areas. Due to lack of in harbor acclimation time, the Project does not anticipate adults to return to Monterey Harbor as has been seen in some previous coastal release projects. The Project complies with CDFW hatchery release policies. CDFW's California Natural Diversity Database (CNDDB) was reviewed to identify potential impacts to animals identified in the nine Quadrants in the surrounding area.

References

Bartley, D.M., G.A.E. Gall, and B. Bentley. 1990. Biochemical genetic detection of natural and artificial hybridization of Chinook and Coho Salmon in Northern California. Transactions of the American Fisheries Society 119: 431-437, 1990

Buttars, B. 2018. Central Valley Salmon and Steelhead Marking/Coded-wire Tagging Program fall-run Chinook Salmon, spring-run Chinook Salmon, and Steelhead, 2018 Marking Season, Pacific States Marine Fisheries Commission Administrative Report.

Cal Fire. 2019. Wildland Hazard and Building Codes webpage, Santa Cruz County Fire Hazard Severity (FHSZ) Map. http://www.fire.ca.gov/fire_prevention/fhsz_maps_santacruz

California Natural Diversity Database (CNDDB). 2019. Rare Find 5 [Internet]. California Department of Fish and Wildlife [November 2, 2019].

CDFW. 2018. Grand Tab, California Dept of Fish and Wildlife Anadromous Assessment.

Chevassus, B. 1979. Hybridization in salmonids: results and perspectives. Aquaculture 17:113-128.

Clemento, A.J., E.D. Crandall, J.C. Garza, and E.C. Anderson. 2014. Evaluation of a single nucleotide polymorphism baseline for genetic stock identification of Chinook Salmon (*Oncorhynchus tshawytscha*) in the California Current large marine ecosystem. Fisheries Bulletin 112:112-130 (2014).

Leet, S. L., Green, R.E., and Ralph, D. 1986. Pen Rearing Pacific Salmon, *Oncorhynchus spp.*, in San Francisco Bay. Marine Fisheries Review, 48(1), 24-31.

Lily, N. R. 1982. Chemical communication in fish. Canadian Journal Fisheries Aquatic Science 39: 22-35.

MBARD. 2012. Monterey Bay Air Resources District, 2012-2015 Air Quality Management Plan, adopted by the Board of Directors March 15, 2017, 24580 Silver Cloud Ct. Monterey, CA 93940. http://www.co.monterey.ca.us/home/showdocument?id=62318

Moyle, P.B. 2002. Inland Fishes of California, University of California Press.

Neillands, G., J. Nelson, and E. Larson. 2015. Annual Report 2014, Chinook Salmon Observation Monitoring Central California Coastal Streams. CDFW Bay Delta Region.

Neillands, G., J. Nelson, and E. Larson. 2016. Annual Report 2015, Chinook Salmon Observation Monitoring Central California Coastal Streams. CDFW Bay Delta Region.

Neillands, G., J. Nelson, A. Persau, and E. Larson. 2018. Annual Report 2016, Chinook Salmon Observation Monitoring Central California Coastal Streams. CDFW Bay Delta Region.

Neillands, G., J. Nelson, M. Michie, M. Stuhldreher, and E. Larson. 2019. Annual Report 2017, Chinook Salmon Observation Monitoring Central California Coastal Streams. CDFW Bay Delta Region.

Palmer-Zwahlen M. and Kormos. B. 2015. Recovery of Coded-Wire Tags from Chinook Salmon in California's Central Valley Escapement, Inland Harvest, and Ocean Harvest in 2012. California Department of Fish and Wildlife Fisheries Administrative Report 2015-4. November 2015.

Palmer-Zwahlen M., Gusman, V and Kormos, B. 2019. Recovery of Coded-Wire Tags from Chinook Salmon in California's Central Valley Escapement, Inland Harvest, and Ocean Harvest in 2014. California Department of Fish and Wildlife and Pacific States Marine Fisheries.

Quinn TP. 2005. *The behavior and ecology of Pacific salmon and trout*. American Fisheries Society, Bethesda, pp 85–104.

Quinn, Thomas P. 2018. *The Behavior and Ecology of Pacific Salmon and Trout*. Second. Seattle, WA: University of Washington Press.

Initial Study Environmental Checklist

Project Title:

Chinook Salmon Coastal Release in Monterey Harbor

Lead Agency Name and Address:

California Department of Fish and Wildlife Fisheries Branch P.O. Box 944209 Sacramento, CA 92444-2090

Contact Person and Phone Number:

Ryon Kurth, Fisheries Branch (916) 445-9935 Ryon.Kurth@wildlife.ca.gov

Project Location:

Monterey County Monterey Harbor (36.605514°, -121.889288°)

Project Sponsor's Name and Address:

California Department of Fish and Wildlife Fisheries Branch P.O. Box 944209 Sacramento, CA 92444-2090

General Plan Designation:

Coastal Development Permit (CDP) Waiver 3-18-0156-W California Coastal Commission Central Coast District Office 725 Front Street, Suite 300 Santa Cruz, CA 95060-4508

Zoning:

Coastal

Description of Project:

California Department of Fish and Wildlife's (CDFW) Mokelumne River Hatchery (MOK) would deliver 160,000 Central Valley fall-run Chinook Salmon (CV FRCS) smolts to the Project location for direct release (if possible) at the end of Municipal Wharf #2 in Monterey Harbor in 2020 and again in 2021. MBSTP is implementing this project. CDFW would deliver MOK CV FRCS smolts to Monterey Harbor in

mid-May of 2020 and 2021. Exact dates and times would be scheduled as the time draws near and are dependent on fish size, growth rates, and environmental conditions in Monterey Harbor and Monterey Bay. All smolts would be transported in a single trip each year, using 2-4 fish transport trucks (dependent upon loading density/fish size). Water in transport trucks would be salted prior to onloading fish to initiate smoltification and aid in acclimation to the marine environment. MBSTP would provide a 'tender' vessel (12-20' outboard) on the water at the discharge point to assist with the discharge hose and any other operational logistics. Additional release methods may be used if conditions do not allow for direct discharge from transport trucks including: temporary (no greater than 48 hours) net barge holding, release at the base of the Coast Guard Pier, and (in case of emergency only) transfer to the Santa Cruz Harbor or Wharf (36.964136°, -122.001816°). The Project's objective is to enhance the commercial and recreational salmon ocean fishery.

Surrounding Land Uses and Setting:

Monterey Harbor is located on the south west end of Monterey Bay within the City of Monterey. Municipal Wharf #2 is the eastern most structure in Monterey Harbor which houses wholesale fish companies, restaurants, a boat hoist, private docks, public restrooms and a 700-foot fishing promenade open to public sport fishing. Foot-traffic issues have been discussed with Monterey Harbor personnel and is expected to be minimal. Any traffic or crowd control will be organized by MBSTP and Monterey Harbor (Ben Harris, personal communication, December 9, 2019). Total release time is expected to be less than one hour.

Monterey Bay is a 25-mile ocean inlet, which allows marine air at low levels to penetrate the interior. The Salinas Valley is a steep-sloped coastal valley that opens out on Monterey Bay and extends southeastward with mountain ranges of two to three thousand feet in elevation on either side. Monterey Bay is within the Monterey Bay National Marine Sanctuary, a federally protected marine area, established for the purpose of resource protection, research, education and public use. Commercial and recreational fishing are permitted within the sanctuary.

The Pajaro River, Elkhorn Slough and Salinas Rivers flow into Monterey Bay near Moss Landing, approximately 13 miles north of Monterey Harbor.

Approvals Needed from Other Public Agencies:

The Coastal Commission issued Coastal Development Permit waiver 3-18-0156-W on July 13, 2018 for this Project.

City of Monterey Planning office determined the Project meets all zoning requirements and needs no local permits other than building permits and considered it "Not a Project under CEQA Art. 20 Section 15378 and Art. 5 Section 15061" June 4, 2018 (Exhibit C: City of Monterey Zoning Review Letter).

Tribal:

Notification letters describing the Project were mailed to all federally recognized California tribes and California tribes specifically requesting to be notified for all CEQA projects on December 10, 2019.

CDFW received three responses. No tribes requested consultation. One tribe expressed support (Exhibit H: Tribal Support Letters).

Initial Study (cont): Environmental Factors, Determination, Evaluation of Environmental Impacts and Explanations

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact," as indicated by the checklist on the following pages.							
Aesthetics	Agriculture / Forestry Resources	Air Quality					
Biological Resources	Cultural Resources	Епегду					
Geology/Soils	Greenhouse Gas Emissions	Hazards and Hazardous Materials					
Hydrology/Water Quality	Land Use / Planning	Mineral Resources					
Noise	Population / Housing	Public Services					
Recreation	Transportation	Tribal Cultural Resources					
Utilities / Service Systems	Wildfire	Mandatory Findings of Significance					
DETERMINATION							
On the basis of this initial evalu	uation:						
✓ I find that the proposed		ant effect on the environment, and a					
will not be a significant effect in the		cant effect on the environment, there project have been made by or agreed ON will be prepared.					
I find that the proposed ENVIRONMENTAL IMPACT REP		effect on the environment, and an					
I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.							
I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.							
In Fi	Shell	2/11/2420					
Signature	Date	/					

EVALUATION OF ENVIRONMENTAL IMPACTS

- 1. A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors, as well as general standards (e.g., the project would not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
- 2. All answers must take account of the whole action involved, including off-site as well as onsite, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3. Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.
- 4. "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level.
- 5. Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
 - a) Earlier Analyses Used. Identify and state where they are available for review.
 - b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
 - c) Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
- 6. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
- 7. Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
- 8. This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
- 9. The explanation of each issue should identify:
 - a) the significance criteria or threshold, if any, used to evaluate each question; and
 - b) the mitigation measure identified, if any, to reduce the impact to less than significance

Significant
Potentially With Less Than
Significant Mitigation Significant No
Impact Incorporated Impact Impact

Less Than

I. AESTHETICS. Except as provided in Public Resources Code Section 21099, would the project:

- a) Have a substantial adverse effect on a scenic vista?
- b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

Issues

- c) In nonurbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?
- d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?
- II. AGRICULTURE AND FORESTRY RESOURCES. In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:
- a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to nonagricultural use?
- b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?
- c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?
- d) Result in the loss of forest land or conversion of forest land to non-forest use?
- e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?
- III. AIR QUALITY. Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:
- Conflict with or obstruct implementation of the applicable air quality plan?
- b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?
- c) Expose sensitive receptors to substantial pollutant concentrations?
- d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

	Less Than Significant		
Potentially	With	Less Than	
Significant	Mitigation	Significant	No
Impact	Incorporated	Impact	Impact

Issues

IV. BIOLOGICAL RESOURCES. Would the project:

- a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?
- b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?
- c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?
- d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?
- e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?
- f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

V. CULTURAL RESOURCES. Would the project:

- Cause a substantial adverse change in the significance of a historical resource pursuant to § 15064.5?
- Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?
- c) Disturb any human remains, including those interred outside of dedicated cemeteries?

VI. ENERGY. Would the project:

- a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?
- b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

VII. GEOLOGY AND SOILS. Would the project:

- Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:
 - Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map, issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.
 - ii) Strong seismic ground shaking?
 - iii) Seismic-related ground failure, including liquefaction?
 - iv) Landslides?
- b) Result in substantial soil erosion or the loss of topsoil?

	Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
c)	Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?				
d)	Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?				
e)	Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste				

VIII. GREENHOUSE GAS EMISSIONS. Would the project:

Directly or indirectly destroy a unique paleontological resource

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

or site or unique geologic feature?

water?

b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

IX. HAZARDS AND HAZARDOUS MATERIALS. Would the project:

- a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?
- b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?
- c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?
- d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code § 65962.5 and, as a result, would it create a significant hazard to the public or the environment?
- e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?
- f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?
- g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?

X. HYDROLOGY AND WATER QUALITY. Would the project:

- a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?
- b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?
- c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:

	Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
i)	result in a substantial erosion or siltation on- or off-site;				
ii)	substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;				
iii)	create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or				

- iv) impede or redirect flood flows?
- d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?
- e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

XI. LAND USE AND PLANNING. Would the project:

- a) Physically divide an established community?
- b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

XII. MINERAL RESOURCES. Would the project:

- a) Result in the loss of availability of a known mineral resource that would be a value to the region and the residents of the state?
- b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?

XIII. NOISE. Would the project result in:

- a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?
- b) Generation of excessive groundborne vibration or groundborne noise levels?
- c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

XIV. POPULATION AND HOUSING. Would the project:

- a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?
- b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

XV. PUBLIC SERVICES. Would the project:

a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:

Less Than
Significant
Potentially With
Significant Mitigation
Impact Incorporated

Less Than Significant Impact

No Impact

Issues

Fire protection?

Police protection?

Schools?

Parks?

Other public facilities?

XVI. RECREATION.

- a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?
- b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

XVII. TRANSPORTATION. Would the project:

- a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?
- b) Conflict or be inconsistent with CEQA Guidelines § 15064.3, subdivision (b)?
- c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?
- d) Result in inadequate emergency access?

XVIII. TRIBAL CULTURAL RESOURCES.

- a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code § 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:
 - Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or
 - ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code § 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code § 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.

XIX. UTILITIES AND SERVICE SYSTEMS. Would the project:

a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?

	Issues	Potentially Significant Impact	With Mitigation Incorporated	Less Than Significant Impact	No Impact
b)	Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?				

Less Than Significant

- c) Result in a determination by the waste water treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?
- d) Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?
- e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?
- XX. WILDFIRE. If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:
- a) Substantially impair an adopted emergency response plan or emergency evacuation plan?
- b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?
- c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?
- d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

XXI. MANDATORY FINDINGS OF SIGNIFICANCE.

- a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?
- b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)
- c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

I. Aesthetics

a. - d.: No impact

Discussion: Any additional equipment or lighting that may be used for this project (i.e. net barge, boat illumination) will be temporary and removed after use. There would be no other changes to scenic or urban landscapes.

II. Agriculture and Forestry Resources

a. – e.: No impact

Discussion: Activities proposed by the Project would not occur in any FMMP designated farmland, or area zoned for agricultural use, nor would the Project affect other resources related to agriculture, farmland or forest land.

III. Air Quality

a. -d.: No impact

Discussion: Any potential for air quality impacts would result from hatchery trucks and boats used for offloading the smolts. This is not an ongoing project and would not conflict with or obstruct implementation of any air quality control plan. Any diesel fuel odors when delivering fish would be temporary and would not adversely affect a substantial number of people. Significance criteria is established through Monterey Bay Air Resources District and adopted by the District Board of Directors on March 15, 2017. Project emissions generated by hatchery trucks and boat are accounted for in the Daily Emissions Inventory (David Frisbey, Monterey Bay Air Resources District, personal communication, November 22, 2019).

IV. Biological Resources

a. Less Than Significant Impact

Discussion: The Monterey Harbor and Monterey Bay area quadrants examined for this study include: Santa Cruz, Soquel, Watsonville West, Moss Landing, Marina, Seaside and Monterey. The California Natural Diversity Database (CNDDB) Rare Find was used to report presence and status of all animals within these seven quadrants (Exhibit F: Project Location and Quadrants Identification Map, Attachment 2: CNDDB Grids included in species review., Exhibit G: CNDDB Elements Report).

This project will have less than significant impact on species identified as candidate, sensitive, or special status species.

Fishes

Based on a query of CNDDB Rare Find, this analysis considers whether any fish species that is documented to have occurred in the vicinity of the Project could be adversely affected by the presence of hatchery origin CV FRCS juveniles or returning adults.

The Project would result in less than significant impacts to California and federally endangered Central California Coast Evolutionarily Significant Unit Coho Salmon *Oncorhynchus kisutch* (CC Coho ESU), federally threatened Central California Coast Distinct Population Segment Steelhead (CCC Steelhead DPS) and South-Central Coast Steelhead (SCC Steelhead DPS) *Oncorhynchus mykiss*, and California Coastal Chinook Salmon (CC Chinook ESU) *Oncorhynchus tshawytscha*. Possible impacts to these species include: 1) competition for resources with CC Coho ESU, CCC and SCC steelhead DPSs *Oncorhynchus mykiss*, and California Coastal Chinook Salmon (CC Chinook

ESU) Oncorhynchus tshawytscha, 2) stock hybridization with CC Chinook ESU and CC Coho ESU, or 3) the establishment of an out-of-basin spawning population for CV FRCS in coastal streams where the species does not naturally occur. It is unlikely that these three concerns would result in any significant effects, either directly or indirectly. The three potential impacts above are addressed in turn, below.

- 1. If CV FRCS adults stray into coastal streams, some competition for resources with salmonids native to the area may occur. CDFW monitoring observations show that CV FRCS adults have strayed mainly into three coastal streams within and outside the Project area: Lagunitas Creek (Marin), Arana Gulch, and San Lorenzo River (Neillands et al. 2015, 2016, 2018 and 2019). Of these observations, only three CWT marked fish were recovered in Lagunitas Creek and later identified as returns from a Half Moon Bay net pen release. The remainder of the observations consisted of adipose fin-clipped live fish, carcasses, and redd counts that cannot be attributed to a particular release location. The mouth of Lagunitas Creek is open all year when the mouths of most coastal streams are blocked by sediment until fall rains begin and high flows flush open the mouth. This may be a reason more CV FRCS migrate into this stream to spawn. CV FRCS adults migrate earlier than Coho Salmon or steelhead, thus CV FRCS do not likely compete directly with adult Coho Salmon and steelhead for spawning habitat. Furthermore, expert opinion suggests that Lagunitas Creek is not reliable habitat for Chinook Salmon (E. Ettinger personal communication, 2019). The small releases of CV FRCS planned for 2020 and 2021 would likely not cause significant impacts through competition with listed anadromous stocks in coastal streams.
- 2. CV FRCS are genetically different from CC Chinook ESU but the two are of the same species and genetic hybridization is possible. What keeps different populations genetically distinct is the tendency to migrate back to their natal streams (spatial), and the timing of those migrations (temporal). The genetic distinctiveness illustrated in Clemento et al. (2014) strongly suggests that Russian River and Eel River Chinook Salmon, both in the southern most range of CC Chinook ESU, are more similar to the CC Chinook ESU than the CV FRCS. In other words, if hybridization was occurring in the Russian or Eel Rivers, genetic samples would likely be more similar to CV FRCS. Video monitoring at Mirabel Dam on the Russian River has reported low numbers of adipose fin-clipped fish entering the basin, and due to proximity, it is more likely these fish originated from the San Pablo Bay hatchery releases.

Hybridization with Coho Salmon has been documented although it is extremely rare (Chevassus 1979 (cited in Bartley et al 1990)). It is very unlikely for this to occur in or near the Project area due to the difference in timing of the two migrations. CC Coho ESU return to spawn later than CV FRCS, usually late November to early February and peaking in December and January. Adult CV FRCS migrate late-summer, early-fall and spawn almost immediately (Moyle 2002). Recognition of the same species through olfactory senses is also thought to be an important mechanism maintaining reproductive isolation in salmonids (Lily 1982). It is very unlikely that the small releases planned for 2020 and 2021 would significantly impact listed anadromous stocks due to hybridization with CV FRCS in coastal streams.

3. Hatchery fish have been transported and released into the San Francisco Bay for decades and more specifically, MBSTP has conducted net pen smolt acclimation in the Santa Cruz Harbor since 2010 and no out-of-basin spawning population has been observed. It is very unlikely that the small releases planned for 2020 and 2021 would establish an out-of-basin spawning population of CV FRCS.

The Project would result in no impacts to federally threatened Eulachon *Thaleichthys pacificus*. In California, Eulachon are historically found in the Klamath River as well as some smaller coastal rivers including the Mad River and Redwood Creek. The CNDDB Soquel Quadrant details one Eulachon collected around 1911 near the mouth of Soquel Creek. This was a rare occurance; it is extremely unlikely for Eulachon to be present or adversely affected by the Project.

The Project would result in no impacts to federal and state protected Longfin Smelt *Spirinchus thaleichthys*. The CNDDB finding in Moss Landing Quadrant describes specimens of this species collected offshore in 1890, 1980, and 1993. However, Longfin Smelt do not spawn in this area and these specimens may have been strays from the San Francisco/Bay Delta population. It is extremely unlikely for Longfin Smelt to be present or adversely affected by the Project.

The Project would result in no impacts to federally endangered Tidewater Goby *Eucyclogobius newberryi*. Tidewater Goby is a small fish endemic to the California coast. Multiple occurrences in Santa Cruz Quadrant are shown in the CNDBB. However, Tidewater Goby is found in shallow lagoons, brackish marshes and lower stream reaches. This is not the habitat used by returning adult salmon, and thus would not be adversely affected by the Project.

Birds, Amphibians, Reptiles, and Insects

Several special status birds occur in the Project area, including federally and state endangered California Ridgway's rail *Rallus obsoletus obsoletus*, state threatened bank swallow *Riparia riparia*, federally threatened California black rail *Laterallus jamaicensis coturniculus*, state threatened tricolored blackbird *Eucyclogobius newberry*, and federally threatened and state species of special concern western snowy plover *Charadrius alexandrines nivosus*. Because the Project would occur within the developed Monterey Harbor and given the short duration of the delivery there would be no potential for the Project to disrupt nesting, feeding, or other activities of these birds. In addition, any adult CV FRCS straying into coastal streams would be minimal and would not significantly affect these species.

Similarly, special status amphibians, reptiles, and insects have been documented to occur within the quadrants analyzed for this review, but the Project would not significantly impact these species.

Marine Mammals

Based on a query of CNDDB Rare Find, this analysis considers whether any marine mammal that is documented to have occurred in the vicinity of the Project could be adversely affected by the

presence of hatchery origin CV FRCS juveniles or returning adults. No marine mammals were listed in the CNDDB for the quadrants selected.

b. -f.: No impact

Discussion: The Project involves no changes to terrestrial habitats or wetlands and involves no activities that would impede movement within migratory corridors, or conflict with local ordinances or adopted conservation plans.

V. Cultural Resources

a. - c.: No impact

Discussion: Project does not include usage of historical or archaeological resources, nor does it include any ground modifying activity.

VI. Energy

a. - b.: No impact

Discussion: The Project would be complete in a short amount of time and does not require local energy use or impact local energy plans. The extent of energy resources used would be hatchery trucks and boat fuel use covered in previous sections.

VII. Geology and Soils

a. - f.: No impact

Discussion: The Project does not include any ground disturbing work.

VIII. Greenhouse Gas Emissions

a. : Less Than Significant Impact

Discussion: The Project would emit greenhouse gases (GHG) due to the use of fuel to transport the Chinook Salmon smolts from MOK to Monterey Harbor and the use of an on on-the the-water boat to assist in the release of the smolts. Project emissions generated by hatchery trucks and boat are accounted for in the daily emissions Daily Emissions Inventory outlined on pages 20 and 21 of the 2012-2015 Air Quality Management Plan released by the Monterey Bay Air Resources District and adopted by the District Board of Directors on March 15, 2017. (David Frisbey, Monterey Bay Air Resources District, personal communication, November 22, 2019).

b. : No impact

Discussion: The very low levels of GHG emissions from the Project will not conflict with plans for reducing GHG.

IX. Hazards and Hazardous Materials

a. -g.: No impact

Discussion: The Project will not be transporting, located in areas with, or blocking hazards or hazardous materials.

X. Hydrology and Water Quality

a. - c.: No impact

Discussion: Fish will be acclimated to saltwater in hatchery trucks and will not be fed on site. Any fecal matter produced on site will be minimal with direct release of smolts into the Project site. No local groundwater, existing drainage, tidal or river flow, or alteration of management plans would be affected or changed due to this Project and no pollutants will be released.

XI. Land Use and Planning

a. - b.: No impact

Discussion: There is no land use anticipated for this Project and if temporary net barges are needed dockside, they will be removed after use.

XII. Mineral Resources

a. - b.: No impact

Discussion: No mineral resources will be used in the Project.

XIII. Noise

a. - c. : No impact

Discussion: The Project will not produce substantial temporary or permanent increase in ambient noise levels and hatchery trucks and boats are within expected noise levels for Monterey Harbor and nearby communities.

XIV. Population and Housing

a. - b.: No impact

Discussion: The Project does not include any construction or alterations to local housing or population.

XV. Public Services

a. : Less Than Significant Impact

Discussion: Due to shorter acclimation time, adults are not expected to return to Monterey Harbor as has been seen in previous coastal release projects. Previous impact was seen in net pen releases when acclimation times were longer and adults returned to the release site, brining traffic from recreational anglers. Given the changes in acclimation times, it appears unlikely that significant numbers of CV FRCS adults would home to Monterey Harbor and lead to fishing in the area, and if some do return, their numbers would be less than significant. The Project does not include any construction or alterations to facilities.

XVI. Recreation

a. -b.: No impact

Discussion: The Project would not be in a regional park area and all aspects of potential additional public use would be centralized to the Municipal Wharf 2 where public facilities are present and capable of covering increase in tourist traffic. No additional facilities are likely to be needed.

XVII. Transportation

a. - d.: No impact

Discussion: The Project does not involve alterations to public transportation facilities. The low number of vehicle miles associated with the hatchery trucks from MOK to Monterey Harbor would not have an appreciable impact to roadways or pedestrian facilities or block any emergency access.

XVIII. Tribal Cultural Resources

a. : No impact

Discussion: Notification letters describing the Project were mailed to all federally recognized tribes in California and California tribes specifically requesting to be notified for all CEQA projects on December 10, 2019. CDFW received three responses. No tribes requested consultation; one issued a letter of support (Exhibit H: Tribal Support Letters).

XIX. Utilities and Service Systems

a. – e. : No impact

Discussion: The Project would not rely on utilities or service systems nor generate liquid or solid waste.

XX. Wildfire

a. - d.: No impact

Discussion: The Project would not block emergency vehicles or evacuations. There would be no increased wildfire or exposure to risks and the Project uses infrastructure already in existence with no additional infrastructure needed.

XXI. Mandatory Findings of Significance

a. : No impact

Discussion: The Project would not degrade the environment or species. Project smolts would grow into harvestable adults in the near ocean environmental and be available to commercial and recreational fisheries. Unharvested adults may stray or return to MOK, but this would not impact habitat of other native species or substantially reduce the number of species or restrict the range of a rare or endangered plant or animal.

b. No impact

Discussion: No impact. Kormos and Palmer-Zwahlen (2015) explain that CWT data indicates net pen releases generally have a higher recovery rate than fish released in river, but conversely, they also exhibited higher stray rates. There are concerns that returning adult net pen fish strays may adversely affect native stocks within coastal streams, however this has to be shown to impact native fishes. Features of the Project serve to reduce the potential for Project fish to stray into coastal streams and minimize any impact in the event straying occurs. In addition, this Project has taken steps to reduce potential for straying through lowered acclimation times.

Based on the available data, there will be no cumulative impacts.

c. No impact

Discussion: The Project does not have environmental effects which will cause substantial adverse effects on humans either directly or indirectly.

Exhibit A: Statement of Work

Under the direction of the Grantor, the California Department of Fish and Wildlife (CDFW), and under the following conditions and terms, Monterey Bay Salmon and Trout Project (MBSTP) would fulfill the following:

1. MBSTP is responsible for acclimating 160,000 Chinook Salmon smolts provided by the Mokelumne River Fish Hatchery in 2020 and 160,000 in 2021. CDFW would deliver fish to harbor directly or through net barge to Municipal Wharf 2 within Monterey Harbor. Fish delivered to the net barge would be held no greater than 48 hours and if environmental conditions prevent release from either Municipal Wharf 2 or Coast Guard pier in Monterey Harbor, release could be conducted in Santa Cruz Harbor in case of emergency only.

If a net barge is used, it will be towed and placed prior to arrival of hatchery fish. It will be located in the same Municipal Wharf 2 location as the direct release. Hatchery fish will be delivered at the same time in 2-4 hatchery trucks. This project has been reviewed and accepted by California Coastal Commission, City of Monterey, Monterey Harbor and Monterey Bay National Marine Sanctuary (see Exhibits B-E). MBSTP has engaged with the public and local communities included a public meeting on August 21, 2019. The public meeting was widely broadcast and had staff from Monterey Bay Aquarium, Monterey Bay National Marine Sanctuary, Monterey Harbor and Monterey Bay Fisheries Trust in attendance with over 25 members of the public (Ben Harris, personal communication, December 9, 2019).

- 2. MBSTP understands the availability of salmon for this project may be reduced based on availability. CDFW would mark and tag the fish with a coded-wire tag (CWT) and adipose fin clip. Salmon would be healthy and disease free when delivered to Monterey Harbor. All fish would be delivered, acclimated, and released within the same day with the exception alternative release methods in which they will be released no greater than 48 hours after delivery. Fish are scheduled to be delivered mid-May depending on fish size, growth rates, and environmental conditions in Monterey Harbor and Monterey Bay.
- 3. MBSTP agrees to provide a written report on all fish releases to CDFW and Commercial Salmon Trollers Advisory Committee (CSTAC) by August 15, 2020 for the 2020 release and by August 15, 2021 for the 2021 release. The report will include the following information:
 - Estimated number of fish, mortalities, and condition upon delivery
 - Estimated number of fish mortalities and condition upon release
 - Environmental conditions; water temperature, air temperature
 - Estimated number and species of avian and marine predators present at release
 - Location (lat/long) of release site and time
 - Duration of acclimation (hours, minutes)
- 4. MBSTP would provide a hard copy and an electronic copy of the final report in MS Word or PDF format.
- 5. MBSTP would obtain permits required by the Coastal Commission, local planners, and any other permits that may be needed to implement the project.

6. MBSTP would acknowledge the participation of the CDFW and Commercial Salmon Stamp on any signs, flyers, or other types of written communication or notice to advertise or explain the MBSTP Chinook Salmon Coastal Release Project in Monterey Harbor.

STATE OF CALIFORNIA - WATURAL RESOURCES AGENCY

EDMUND G. BROWN, IR., GOVERNOR

CALIFORNIA COASTAL COMMISSION

CENTRAL COAST DISTRICT OFFICE 125 FROMT STREET, BUTTE 300 SAOTA CRUZ, CALEFORNIA #1006-4508 PH 1830 4TT-4867 TAX 1830 427-4877 WWW.COASTAL CAGOY



NOTICE OF PERMIT WAIVER EFFECTIVENESS

July 13, 2018

To:

Monterey Bay Salmon and Trout Project

From:

Susan Craig, District Manager

Sarah Carvill, Coastal Program Analyst

Subject: Coastal Development Permit (CDP) Waiver 3-18-0156-W

Please note that CDP Waiver 3-18-0156-W was reported to the California Coastal Commission on July 12, 2018 and became effective as of that date. CDP Waiver 3-18-0156-W allows for:

Placement of a 46-foot by 26-foot floating net pen (in the spring of 2019 and again in the spring of 2020) in the Monterey Harbor for up to 48 hours to contain Chinook salmon smolts that will be transported to and released in the open waters of Monterey Bay. The pen consists of a floating dock encircled by a six-foot-high chain link fence; a net attached to the floating dock extends eight feet below the surface of the water. The pen will be moored to existing Harbor infrastructure (i.e., a floating dock) near the Coast Guard pier.

Please be advised that CDP Waiver 3-18-0156-W only authorizes the development as proposed and described in the Commission's files; any changes to the proposed and described project may require a CDP to account for the changes or a CDP for the entire project. If you have any questions, please contact Sarah Carvill in the Central Coast District Office at the address and phone number above.

Sincerely,

John Ainsworth Executive Director

Central Coast District Manager

cc: File

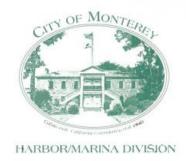
Exhibit C: City of Monterey Zoning Review Letter

APPENDIX B

LOCAL AGENCY REVIEW FORM

SECTION A (TO BE COMPLETED BY APPLICANT)		
Applicant Benjamin Harris		
Project Description MBSTP Chinook Net Pen Release Program		
Location Monterey Harbor, Monterey, CA		
Assessor's Parcel Number Not Applicable	173	
SECTION B (TO BE COMPLETED BY LOCAL PLANNING OR BUILDING INSPECTION DEPARTMENT)		
Zoning Designation PC-W (Planned Community - Waterfront)	NIA	du/ac
General or Community Plan Designation Public/Semi - Public	WA	du/ac
Local Discretionary Approvals		
Proposed development meets all zoning requirements and needs no loc permits.	al permits other that	an building
Proposed development needs local discretionary approvals noted below.		
Needed Received		
☐ Design/Architectural review		
□ Variance for		
Rezone from		
☐ Tentative Subdivision/Parcel Map No.		
Grading/Land Development Permit No. Planned Residential/Commercial Developme		
Planned Residential/Commercial Developme Site Plan Review Condominium Conversion Permit Conditional Special or Major Use Permit No	nt Approval	
Site Plan Review Condominium Conversion Permit		
Condominium Conversion Permit		
Conditional, Special, or Major Use Permit No		
Other		
CEQA Status		
☐ Categorically Exempt Class Item		
Negative Declaration Granted (Date)		
☐ Environmental Impact Report Required, Final Report Certified (Date)		110
Other Not a Project under CEOA Art. 205. 15378	4 Art. 5 S. 15	5061
	anda Roveri	
Date 6/4/2018 Title Associate Pla	-	

Exhibit D: City of Monterey Harbor and Marina Division



January 7, 2020

Ben Harris 101 Cooper St. Santa Cruz, CA 95060

Dear Mr. Harris:

Thank you for helping in the efforts to bring a salmon release fishery enhancement program to the Monterey Harbor. I recognize that such a program would bring a social and economic benefit to Monterey Bay by helping to sustain fishing opportunities for future generations.

In the past, Monterey Harbor Staff worked with the Monterey Bay Salmon and Trout Project to release salmon smelt into the wild but the program was discontinued for various reasons. Recently, through the acceptance of the City of Monterey's Fishing Community Sustainability Plan, the City Council of Monterey has expressed a desire to work with interested parties to reinstate a salmon release program.

I welcome the opportunity to support interested parties in releasing up to 250,000 salmon smolt at Monterey. The City of Monterey will permit and grant access to the Waterfront Facilities in Monterey to the Monterey Bay Salmon and Trout Project Personnel for the duration of a salmon release fishery enhancement project.

Sincerely

John Haynes

City of Monterey Harbormaster

Exhibit E: Monterey Bay National Marine Sanctuary Statement

From: Sophie De Beukelaer - NOAA Affiliate
Sent: Wednesday, February 5, 2020 12:56 PM

To: Parker, Christina@Wildlife

 Cc:
 Karen Grimmer - NOAA Federal; Kurth, Ryon@Wildlife

 Subject:
 Re: FW: Monterey harbor chinook release letter

Hello Christina,

Thank you for providing the follow-up information. Monterey Bay National Marine Sanctuary (MBNMS) has reviewed the project description and supplemental information provided for the release of juvenile Chinook Salmon into the Monterey Harbor in May 2020 by the Monterey Salmon and Trout Project. The release will occur within Monterey Harbor and will not be occurring in the MBNMS's jurisdiction, which is seaward of the Monterey harbor waters (see map on https://nmsmontereybay.blob.core.windows.net/montereybay-prod/media/materials/maps/harbor1_lg.jpg). MBNMS is aware of this project, and does not object to this project as described.

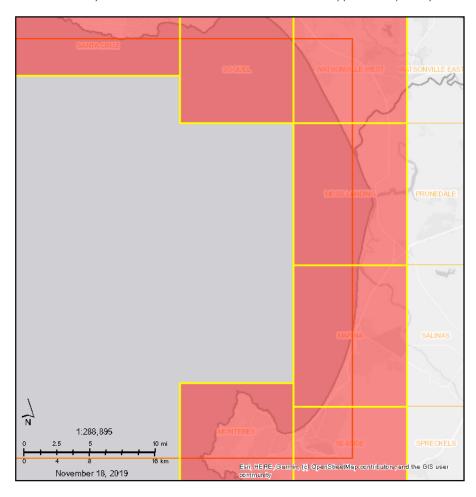
Please do reach out to us if your methods change, particularly the release location.

Sincerely, Sophie

Exhibit F: Project Location and Quadrants Identification Map



Attachment 1: Monterey Harbor release location. Yellow circle indicates approximate primary release site.

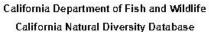


Attachment 2: CNDDB Grids included in species review.

Exhibit G: CNDDB Elements Report



Selected Elements by Common Name





Query Criteria:

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDF W SSC or FP
American badger	AMAJF04010	None	None	G5	S3	SSC
Taxidea taxus						
American peregrine falcon	ABNKD06071	Delisted	Delisted	G4T4	S3S4	FP
Falco peregrinus anatum						
Anderson's manzanita	PDERI04030	None	None	G2	S2	1B.2
Arctostaphylos andersonii						
angel's hair lichen	NLLEC3S340	None	None	G5?	S2S3	2B.1
Ramaiina thrausta						
bank swallow	ABPAU08010	None	Threatened	G5	S2	
Filparia riparia						
beach layia	PDAST5N010	Endangered	Endangered	G2	S2	1B.1
Layia carnosa						
black swift	ABNUA01010	None	None	G4	S2	SSC
Cypseloides niger						
Blasdale's bent grass	PMPOA04060	None	None	G2	S2	1B.2
Agrostis blasdalei						
burrowing owl	ABNSB10010	None	None	G4	S3	SSC
Athene cunicularia						
California black rail	ABNME03041	None	Threatened	G3G4T1	S1	FP
Laterallus jamai censis coturni culus						
California brown pelican	ABNFC01021	Delisted	Delisted	C4T3T4	S3	FP
Pelecanus occidentalis californicus						
California giant salamander	AAAAH01020	None	None	G3	S2S3	SSC
Dicamptodon ensatus						
California horned lark	ABPAT02011	None	None	G5T4Q	54	WL
Eremophila alpestris actia						
California linderiella	ICBRA06010	None	None	G2G3	S2S3	
Linderiella occidentalis						
California red-legged frog	AAABH01022	Threatened	None	G2G3	S2S3	SSC
Fana draytonii						
California Ridgway's rail	ABNME05011	Endangered	Endangered	G5T1	S1	FP
Railus obsoletus obsoletus						
California tiger salamander	AAAAA01180	Threatened	Threatened	G2G3	S2S3	WL
Ambystoma californiense						
Carmel Valley bush-mallow	PDMAL0Q0B1	None	None	G3T2Q	S2	1B.2
Malacothamnus palmeri var. involucratus						
Carmel Valley malacothrix	PDAST660C2	None	None	G5T2	S2	1B.2
Malacothrix saxatilis var. arachnoidea						

Government Version -- Dated December, 1 2019 -- Biogeographic Data Branch Report Printed on Thursday, December 26, 2019 Page 1 of 6

Information Expires 6/1/2020





California Department of Fish and Wildlife California Natural Diversity Database

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Central Dune Scrub	CTT21320CA	None	None	G2	S2.2	
Central Dune Scrub						
Central Maritime Chaparral	CTT37C20CA	None	None	G2	S2.2	
Central Maritime Chaparral						
Choris' popournflower	PDBOR0V061	None	None	G3T1Q	S1	1B.2
Flagiobothrys chorisianus var. chorisianus						
coast horned lizard	ARACF12100	None	None	G3G4	S3S4	SSC
Fhrynosoma blainviilii						
Coast Range newt	AAAAF02032	None	None	G4	S4	SSC
Taricha torosa						
Coastal and Valley Freshwater Marsh	CTT52410CA	None	None	G3	S2.1	
Coastal and Valley Freshwater Marsh						
Coastal Brackish Marsh	CTT52200CA	None	None	G2	S2.1	
Coastal Brackish Marsh						
coastal dunes milk-vetch	PDFAB0F8R2	Endangered	Endangered	G2T1	S1	1B.1
Astragalus tener var. titi						
coho salmon - central California coast ESU	AFCHA02034	Endangered	Endangered	G4	S2?	
Oncorhynchus kisutch pop. 4						
Congolon's tarplant	PDAST4R0P1	None	None	C3T1T2	S1S2	1B.1
Centromadia parryi ssp. congdonii						
Contra Costa goldfields	PDAST5L040	Endangered	None	G1	S1	1B.1
Lasthenia conjugens						
Cooper's hawk	ABNKC12040	None	None	G5	S4	WL
Accipiter cooperii						
Dolloff Cave spider	ILARA17010	None	Non e	G1	S1	
Meta dolloff						
Dualey's lousewort	PDSCR1K0D0	None	Rar e	G2	S2	1B.2
Pedicularis dudleyi						
Eastwood's goldenbush	PDAST3L080	None	None	G2	S2	1B.1
Ericameria fasci culata						
Empire Cave pseudoscorpion	ILARAE5010	None	None	G1	S1	
Fissilicreagris imperialis						
Empire Cave pseudoscorpion	ILARAD1010	None	None	G1	S1	
Neochthonius imperialis						
eulachon	AFCHB04010	Threatened	None	G5	S3	
Thateichthys pacificus						
ferruginous hawk	ABNKC19120	None	None	G4	S3S4	WL
Buteo regalis						
foothill yellow-legged frog	AAABH01050	None	Candidate Threatened	G3	S3	SSC
Rana boyw			mreatened			
Fort Ord spineflower	PDPGN04100	None	None	G1	S1	1B.2
Chorizanthe minutitlora						

Government Version -- Dated December, 1 2019 -- Biogeographic Data Branch Report Printed on Thursday, December 26, 2019 Page 2 of 6 Information Expires 6/1/2020





California Department of Fish and Wildlife California Natural Diversity Database

Species	Element Code	Federal Status	State Status	Gobal Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
fragrant fritillary	PMLIL0V0C0	None	None	G2	S2	1B.2
Fribilaria Illiacea						
globose dune beetle	IICOL4A010	None	None	G1G2	S1S2	
Coelus globosus						
Gowen cypress	PGCUP04031	Threatened	None	G1	S1	1B.2
Hesperocyparis goveniana						
great blue heron	ABNGA04010	None	None	G5	S4	
Ardea herodias						
Hickman's cinquefoil	PDROS1B0U0	Endangered	Endangered	G1	S1	1B.1
Potentiila hickmanii						
Hickman's onion	PMLIL02140	None	None	G2	S2	1B.2
Allium hickmanii						
hoary bat	AMACC05030	None	None	G5	S4	
Lasiurus cinereus						
Hooker's manzanita	PDERI040J1	None	None	G3T2	S2	1B.2
Arctostaphylos hookeri ssp. hookeri						
Hospital Canyon larkspur	PDRAN0B0A2	None	None	G3T3	S3	1B.2
Delphinium californicum ssp. interius						
Hutchinson's larkspur	PDRAN0B0V0	None	None	G2	S2	1B.2
Delphinium hutchinsoniae						
Jolon clarkia	PDONA050L0	None	None	G2	S2	1B.2
Clarkia jolonensis						
Kellogg's horkelia	PDROS0W043	None	None	G4T1?	S1?	1B.1
Horkeila cuneata var. sericea						
longfin smelt	AFCHB03010	Candidate	Threatened	G5	S1	
Spirinchus thaleichthys						
Mackenzie's Cave amphipod	ICMAL05530	None	None	G1	S1	
Stygobromus mackenziei						
maple-leaved checkerbloom	PDMAL110E0	None	None	G3	S3	4.2
Sidalcea malachroides						
marsh microseris	PDAST6E0D0	None	None	G2	S2	1B.2
Microseris paludosa						
marsh sandwort	PDCAR040L0	Endangered	Endangered	G1	S1	1B.1
Arenaria paludicola						
Menzies' wallflower	PDBRA160R0	Endangered	Endangered	G1	S1	1B.1
Erysimum menziesii						
mimic tryonia (=California brackishwater snail)	IMGASJ7040	None	None	G2	S2	
Tryonia imitator						
moestan blister beetle	IICOL4C020	None	None	G2	S2	
Lytta moesta						
monarch - California overwintering population Canaus plexippus pop. 1	IILEPP2012	None	None	C4T2T3	S2S3	

Government Version -- Dated December, 1 2019 -- Biogeographic Data Branch Report Printed on Thursday, December 26, 2019 Page 3 of 6 Information Expires 6/1/2020





California Department of Fish and Wildlife California Natural Diversity Database

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Monterey clover	PDFAB402J0	Endangered	Endangered	G1	S1	1B.1
Trifolium trichocalyx		_				
Monterey cypress	PGCUP04060	None	None	G1	S1	1B.2
Hesperocyparis macrocarpa						
Monterey Cypress Forest	CTT83150CA	None	None	G1	S1.2	
Monterey Cypress Forest						
Monterey gilia	PDPLM041P2	Endangered	Threatened	G3G4T2	S2	1B.2
Gilia tenuitlora ssp. arenaria						
Monterey pine	PGPIN040V0	None	None	G1	S1	1B.1
Finus radiata						
Monterey Pine Forest	CTT83130CA	None	None	G1	S1.1	
Monterey Fine Forest						
Monterey Pygmy Cypress Forest	CTT83162CA	None	Non e	G1	S1.1	
Monterey Pygmy Cypress Forest						
Monterey shrew	AMABA01105	None	None	C5T1T2	S1S2	SSC
Sorex ornatus salarius						
Monterey spineflower	PDPGN040M2	Threatened	None	G2T2	S2	1B.2
Chorizanthe pungens var. pungens						
North Central Coast Drainage Sacramento Sucker/Roach River	CARA2623CA	None	None	GNR	SNR	
North Central Coast Drainage Sacramento Sucker/Roach River						
Northern Bishop Pine Forest	CTT83121CA	None	Non e	G2	S2.2	
Northern Bishop Fine Forest						
northern California legless lizard Anniella pulchra	ARACC01020	None	None	G3	S3	SSC
Northern Coastal Salt Marsh	CTT52110CA	None	None	G3	S3.2	
Northern Coastal Salt Marsh						
northern curly-leaved monardella	PDLAM18162	None	None	G3T2	S2	1B.2
Monardella sinuata ssp. nigrescens						
obscure bumble bee Bombus caliginosus	IIHYM24380	None	None	G4?	S1S2	
0.00400 0-9500 0.0000 0.000 0.000 0.000	HDC1 0301 0	F-01-00-00-00	Neces	C.1	- cx	
Ohlone tiger beetle Cicindela ohlone	IICOL026L0	Endangered	None	G1	S1	
Pacific Grove clover	PDFAB402H0	None	Rare	G1	S1	1B.1
Trifolium polyodon	PDI ADAVZIIV	NONE	Raid	GI	31	/ID.1
Pajaro manzanita	PDERI04100	None	None	G1	S1	1B.1
Arctostaphylos pajaroensis	PDERIOTIO	14Oile	Idolle	GI	21	10.1
palliol bat	AMACC10010	None	None	G5	S3	SSC
Antrozous pailidus	AMACOTATA	INDING	140110	00		550
perennial goldfields	PDAST5L0C5	None	None	G3T2	S2	1B.2
Lasthenia californica ssp. macrantha	15/5/15/505					31.00 (S
pine rose	PDROS1J0W0	None	None	G2	S2	1B.2
Rosa pinetorum		3670.73	60040	550V	Madalii.	22 500 527

Government Version -- Dated December, 1 2019 -- Biogeographic Data Branch Report Printed on Thursday, December 26, 2019 Page 4 of 6 Information Expires 6/1/2020





California Department of Fish and Wildlife California Natural Diversity Database

		E 1 (0)	a a			Rare Plant Rank/CDFW
Species	Element Code PDSCR0D403	Federal Status	State Status None	Global Rank G4T2	State Rank S2	SSC or FP
pink Johnny-nip Castilleja ambigua var. insalutata	PD5CRVD4V3	None	Note	G412	52	1B.1
Point Reyes horkelia	PDROS0W0B0	None	None	G2	S2	1B.2
Horkeila marinensis						
robust spineflower	PDPGN040Q2	Endangered	None	G2T1	S1	1B.1
Chorizanthe robusta var. robusta						
Salinas harvest mouse	AMAFF02032	None	None	G5T1	S1	
Reithrodontomys megalotis distichlis						
saline clover	PDFAB400R5	None	None	G2	S2	1B.2
Trifoiium hydrophilum						
San Francisco collinsia	PDSCR0H0B0	None	None	G2	S2	1B.2
Coninsia multicolor						
San Francisco popoornflower Flagiobothrys diffusus	PDBOR0V080	None	Endangered	G1Q	S1	1B.1
sand-loving wallflower	PDBRA16010	None	None	G2	S2	1B.2
Erysimum ammophilum						
sandmat manzanita	PDERI04180	None	None	G1	S1	1B.2
Arctostaphylos pumila						
sandy beach tiger beetle	IICOL02101	None	None	G5T2	S2	
Cicindela hirticoliis gravida						
Santa Cruz black salamander	AAAAD01070	None	None	G3	S3	SSC
Aneides niger						
Santa Cruz clover	PDFAB402W0	None	None	G2	S2	1B.1
Trifolium buckwestiorum						
Santa Cruz kangaroo rat	AMAFD03042	None	None	G4T1	S1	
Dipodomys venustus venustus						
Santa Cruz long-toed salamander	AAAAA01082	Endangered	Endangered	C5T1T2	S1S2	FP
Ambystoma macrodactylum croceum						
Santa Cruz microseris	PDAST6E050	None	None	G2	S2	1B.2
Stebbinsoseris decipiens						
Santa Cruz tarplant	PDAST4X020	Threatened	Endangered	G1	S1	1B.1
Holocarpha macradenia						
seaside bird's-beak	PDSCR0J0P2	None	Endangered	G5T2	S2	1B.1
Cordylanthus rigidus ssp. iittoraiis						
short-eared owl	ABNSB13040	None	None	G5	S3	SSC
Asio tlammeus						
Smith's blue butterfly	IILEPG2026	Endangered	None	C5T1T2	S1S2	
Euphilotes enoptes smithi						
steelhead - central California coast DPS	AFCHA0209G	Threatened	None	C5T2T3Q	S2S3	
Oncorhynchus mykiss irideus pop. 8						
steelhead - south-central California coast DPS Oncorhynchus mykiss irideus pop. 9	AFCHA0209H	Threatened	None	G5T2Q	S2	

Government Version -- Dated December, 1 2019 -- Biogeographic Data Branch Report Printed on Thursday, December 26, 2019 Page 5 of 6 Information Expires 6/1/2020





California Department of Fish and Wildlife California Natural Diversity Database

			1467310040000	7 <u>2</u> 77	Rare Plant Rank/CDF W
					SSC or FP
NBMU58Z010	None	None	G2	52	1B.3
			20	20	10 E 10
PDFAB2B3Y0	Endangered	Endangered	G1	51	1B.1
	<u></u>	200000000			7878
AFCQN04010	Endangered	None	G3	53	SSC
PDERI040R0	None	None	G2?	S2?	1B.2
AMACC08010	None	None	G3G4	S2	SSC
ABPBXB0020	None	Threatened	G2G3	S1S2	SSC
NLTEST5460	None	None	G1G2	S1S2	1B.1
CTT42110CA	None	None	G3	S3.1	
IIHYM24250	None	Candidate Federated	G2G3	S1	
		cildaligered			
ARAAD02030	None	None	G3G4	S3	SSC
ABNNB03031	Threatened	None	G3T3	S2S3	SSC
PDAST6X030	Endangered	Endangered	G1	S1	1B.1
PDAST6G010	None	None	G3	S3	1B.2
PMORC1X070	Endangered	None	G1	S1	1B.1
ABNME01010	None	None	G4	S1S2	SSC
IIORT36030	Endangered	None	G1	S1	
	IIHYM24250 ARAAD02030 ABNNB03031 PDAST6X030 PDAST6G010 PMORC1X070 ABNME01010	NBMUS3Z010 None PDFAB2B3Y0 Endangered AFCQN04010 Endangered PDERI040R0 None AMACC08010 None ABPBXB0020 None NLTEST5460 None CTT42110CA None IHYM24250 None ARAAD02030 None ABNNB03031 Threatened PDAST6X030 Endangered PDAST6G010 None PMORC1X070 Endangered ABNME01010 None	NBMUS8Z010 None None PDFAB2B3Y0 Endangered Endangered AFCQN04010 Endangered None PDERI040R0 None None AMACC08010 None None ABPBXB0020 None Threatened NLTEST5460 None None CTT42110CA None None IIHYM24250 None Candidate Endangered ARAAD02030 None None ABNNB03031 Threatened None PDAST6X030 Endangered Endangered PDAST6G010 None None ABNME01010 None None None	NBMUS8Z010 None None G2 PDFAB2B3Y0 Endangered Endangered G1 AFCQN04010 Endangered None G3 PDERI040R0 None None G2? AMACC08010 None None G3G4 ABPBXB0020 None Threatened G2G3 NLTEST5460 None None G1G2 CTT42110CA None None G3 IIHYM24250 None Candidate Endangered G2G3 Endangered ARAAD02030 None None G3G4 ABNNB03031 Threatened None G3T3 PDAST6X030 Endangered Endangered G1 PDAST6G010 None None G1 ABNME01010 None None G4	NBMUS8Z010 None None G2 S2 PDFAB2B3Y0 Endangered Endangered G1 S1 AFCQN04010 Endangered None G3 S3 PDERI040R0 None None G2? S2? AMACC08010 None None G3G4 S2 ABPBXB0020 None Threatened G2G3 S1S2 NLTEST5460 None None G1G2 S1S2 CTT42110CA None None G3 S3.1 IIHYM24250 None Candidate Endangered G2G3 S1 ARAAD02030 None None G3G4 S3 ABNNB03031 Threatened None G3T3 S2S3 PDAST6X030 Endangered Endangered G1 S1 PDAST6G010 None None G3 S3 PMORC1X070 Endangered None G4 S1S2

Record Count: 119

Exhibit H: Tribal Support Letters

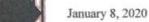


CAHTO TRIBE

LAYTONVILLE RANCHERIA P.O. Box 1239 • Laytonville, CA 95454 (707) 984-6197



State of California Department of Fish and Wildlife 1010 Riverside Parkway West Sacramento, CA 95605



Dear Mr. Shaffer,



We are writing to you to express the support of the Cahto Tribe of the Laytonville Rancheria for the MBSTP Chinook Salmon Coastal Release Project in Monterey Harbor. This is not in our area geographically, but we generally support efforts to improve the populations of salmonids. Their habitat has been negatively impacted through cumulative human influences due to pollution, overuse of resources, poor development decisions, and climate change impacts. Chinook is one of the culturally important species of salmonids for the Cahto Tribe and has traditionally been an important subsistence food. The decline of salmonids is extremely concerning to the Tribe. Efforts to restore their populations, protect their habitat, and increase numbers of native salmonids in California is important to their survival as a species. We ask that you consider the importance of combining these efforts with habitat improvements so that long term survival and natural repopulation can occur.



Thank you for your time and consideration.

Sincerely,

Mary J. Norris

Tribal Chairwoman