APPENDIX 4.3

Biological Resources



Memorandum

To: Steve Abbs Davidon Homes 1600 S. Main Street Walnut Creek, CA 94596 From: Sam Oakley Master Arborist WE-9474B Consulting Arborist #556 925.518.2028 samoakley@arborwell.com

Subject: Arborist Letter for 28 Lot Revised Plan

Date: July 16, 2018

This letter is a summary of Options A, B, and the 28 Lot Revised Plan as they relate to proposed tree removals/values. A twenty-eight (28) lot revised plan has been proposed where eighteen (18) trees are proposed for removal (Table 1). The Revised Plan proposes a roundabout at D Street and Windsor Drive that requires nine (9) trees to be removed. The other nine (9) trees proposed for removal are along the Windsor Drive right of way.

Arborwell inventoried five hundred and nine (509) on-site trees greater than four (4) inches in diameter at fifty-four (54) inches above grade in 2013. An appraisal of the inventoried trees was performed for the revised plan and the amount of tree replacements to mitigate the proposed removals was quantified.

Table T. eac	Table 1. each option is compared to number of lots, number of proposed tree removals, and appraised value for removals.						
	Total Number of Lots	Number of Proposed Tree Removals	Appraised	Tree	Value	of	Proposed
			Removals				
Option A	66	120*	\$352,300				
Option B	63	119*	\$343,700				
Revised Plan	28	18	\$41,100				

Table 1: each option is compared to number of lots, number of proposed tree removals, and appraised value for removals

*Does not include removal of nine (9) trees for the required roundabout on D Street, per the mitigation measure in the Revised Draft EIR.

The replacement size for the revised plan is based on the health and structural condition of the trees to be removed determined by the City of Petaluma. Because health and structure are interrelated, we assigned a *condition* rating for each tree that combined both the health and structure into one rating.

A Protected Tree in good or excellent condition is to be replaced at a 1:1 trunk diameter ratio, totaling eighty-nine (89) replacement inches (Table 2); a Protected Tree in marginal to fair condition replaced at a 1:2 trunk diameter ratio, totaling seventy and one half (70.5) replacement inches; Protected Trees in poor condition do not require replacement.

Table 2. Initigation inches for the Scott Ranch property for the revised plan.								
Tree Condition Type	Total Inches	Mitigation Inches	Replacement Ration					
Excellent/Good	89	89	1:1					
Marginal/Fair	141	70.5	1:2					
Poor		0	NA					
	Total Mitigation Inches:	159.5						



Replacement tree ratios shall be applied as follows for the revised plan (replacement trees shall be at minimum 24-inch box size; replacement sizes were rounded to a whole number):

24-inch box replacement tree = 2-inch trunk replacement diameter = 80 trees (or) 36-inch box replacement tree = 3-inch trunk replacement diameter = 53 trees (or) 48-inch box replacement tree = 4-inch trunk replacement diameter = 40 trees

The appraised value for the revised plan was determined using the ISA's Council of Tree & Landscape Appraiser's (CTLA) Trunk Formula Method. The derived value is an approximation of an individual tree's value and do not represent absolute values based on the inherent subjectivity of an appraisal. The total appraised value for the Scott Ranch property's trees is **\$2,091,900**. The appraised value for trees to be removed for the revised plan is **\$41,100**, rounded to the nearest \$100. The trees to be preserved have an appraised value of **\$2,050,800**.

Tree #	Common Name	Species	DBH (inches)	Condition	Protected?	Appraised Value (\$)
489	Coast Live Oak	Quercus agrifolia	13	Marginal	Yes	\$1,035.50
490	Coast Live Oak	Quercus agrifolia	12	Fair	Yes	\$1,155.98
491	Coast Live Oak	Quercus agrifolia	14	Good	Yes	\$1,670.87
492	Coast Live Oak	Quercus agrifolia	21	Fair	Yes	\$3,415.14
493	Coast Live Oak	Quercus agrifolia	19.5	Fair	Yes	\$2,953.04
494	Coast Live Oak	Quercus agrifolia	21	Fair	Yes	\$3,415.14
495	Coast Live Oak	Quercus agrifolia	17.5	Fair	Yes	\$2,390.15
496	Coast Live Oak	Quercus agrifolia	19	Marginal	Yes	\$2,158.93
497	Coast Live Oak	Quercus agrifolia	10	Fair	Yes	\$758.11
501	Coast Live Oak	Quercus agrifolia	8	Fair	Yes	\$1,642.35
502	London Plane	Platanus acerifolia	18	Good	Yes	\$7,251.76
503	London Plane	Platanus acerifolia	14	Good	Yes	\$4,455.65
504	Scarlet Oak	Quercus coccinea	8	Good	Yes	\$2,021.36
505	Scarlet Oak	Quercus coccinea	3	Good	Yes	\$476.63
506	London Plane	Platanus acerifolia	8	Good	Yes	\$1,572.17
507	London Plane	Platanus acerifolia	8	Good	Yes	\$1,572.17
508	London Plane	Platanus acerifolia	8	Good	Yes	\$1,572.17
509	London Plane	Platanus acerifolia	8	Good	Yes	\$1,572.17

Table 3: inventory data for proposed removals under the revised plan.



TREE REMOVAL FOR HELEN PUTNAM PARK EXTENSION Prepared on 3/20/19

ALTERNATE 1: CLASS 1 TRAIL THROUGH PARK

Tree #	Туре	DBH (inches)	Health	Location / Reason for removal
38	Monterey cypress	33.5	Marginal	Will be in way of class 1 trail, poor health
48	Eucalyptus	54	Fair	Will be in way of new pedestrian bridge/class 1 trail over creek
49	Eucalyptus	67	Fair	Will be in way of new pedestrian bridge/class 1 trail over creek
51	Eucalyptus	14	Marginal	Will be in way of new pedestrian bridge/class 1 trail over creek, poor health
468	Eucalyptus	57	Fair	Roots lifting driveway, will be in way of barn center access

ALTERNATE 2: CLASS 1 TRAIL ADJACENT TO D STREET

Tree #	Туре	DBH (inches)	Health	Location / Reason for removal
14	Coast live oak	7	Fair	Along D Street, will be in way of new class 1 trail, under powerlines, poor health
15	Coast live oak	4	Fair	Along D Street, will be in way of new class 1 trail, under powerlines, poor health
20	Monterey cypress	76	Marginal	Along D Street, will be in way of new class 1 trail, under powerlines, poor health
21	Coast live oak	11	Fair	Along D Street, will be in way of new class 1 trail, under powerlines, poor health
22	Coast live oak	18	Fair	Along D Street, will be in way of new class 1 trail, under powerlines, poor health
23	Coast live oak	18	Fair	Along D Street, will be in way of new class 1 trail, under powerlines, poor health
468	Eucalyptus	57	Fair	Roots lifting driveway, will be in way of barn center access



Health Terms Explained:

<u>Fair</u>: Higher level and/or incidence of deficiencies noted in health and/or structure, including possible hazardous conditions sign and symptoms observed, with higher corrective measures and input required to improve condition and, where applicable, mitigate hazard risk

<u>Marginal</u>: Significant deficiencies noted in health and/or structure, some irreversible, and may include hazardous condition signs and symptoms observed requiring corrective action

Notes:

- 1. Trees to be removed for Davidon development on Park property not included.
- 2. Tree number, type, DBH, and health derived from Arborwell Tree Preservation Plan dated January 15, 2016.

Scott Ranch 28 Lot Residential Application Tree Removal List

Tree #	Common Name	Species	DBH (inches)	Condition	Protected?
489	Coast Live Oak	Quercus agnfolia	13	Marginal	Yes
490	Coast Live Oak	Quercus agrifolia	12	Fair	Yes
491	Coast Live Oak	Quercus agrifolia	14	Good	Yes
492	Coast Live Oak	Quercus agrifolia	21	Fair	Yes
493	Coast Live Oak	Quercus agrifolia	19.5	Fair	Yes
496	Coast Live Oak	Quercus agrifolia	19	Marginal	Yes
497	Coast Live Oak	Quercus agrifolia	10	Fair	Yes
501	Coast Live Oak	Quercus agrifolia	8	Fair	Yes
502	London Plane	Platanus acerifolia	18	Good	Yes
503	London Plane	Platanus acerifolia	14	Good	Yes
504	Scarlet Oak	Quercus coccinea	8	Good	Yes
505	Scarlet Oak	Quercus coccinea	3	Good	Yes
506	London Plane	Platanus acenifolia	8	Good	Yes
507	London Plane	Platanus acerifolia	8	Good	Yes
508	London Plane	Platarrus acerifolia	8	Good	Yes
509	London Plane	Platanus acerifolia	8	Good	Yes

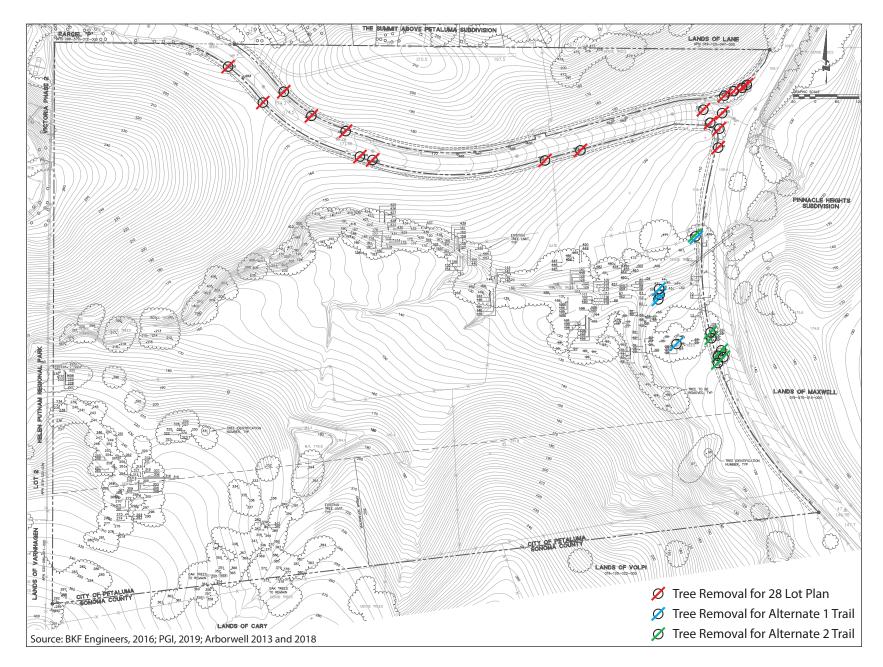


FIGURE 4.3-3. Tree Locations and Proposed Removal

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

District Office San Francisco District File/ORM # 20	003-281630		PJD Date: Dec 2, 2020
State CA City/County Petaluma, Sonoma County			
Nearest Waterbody: Kelly Creek	Address of I		Mr. Steve Abbs Davidon Homes
Location: TRS, LatLong or UTM: Latitude 38.22°, Longitude -122.65°		Person Requesting PJD	1600 South Main Street, Suite 150 Walnut Creek, California 94596
Identify (Estimate) Amount of Waters in the Review Area: Non-Wetland Waters: Stream Flow: 3178.38 linear ft	Name of Any V on the Site Id Section 10	lentified as	Tidal:
Wetlands: 0.271 acre(s) Cowardin Class: Riverine		Desk) Determina etermination:	Date of Field Trip: Nov 19, 2020
SUPPORTING DATA: Data reviewed for preliminary JD (a and requested, appropriately reference sources below):	(check all that a	pply - checked i	tems should be included in case file and, where checked
 ✓ Maps, plans, plots or plat submitted by or on behalf of ✓ Data sheets prepared/submitted by or on behalf of the a ✓ Office concurs with data sheets/delineation re ○ Office does not concur with data sheets/delineation re ○ Office does not concur with data sheets/delineation re ○ Office does not concur with data sheets/delineation re ○ Office does not concur with data sheets/delineation re ○ Office does not concur with data sheets/delineation re ○ Office does not concur with data sheets/delineation re ○ Office does not concur with data sheets/delineation ○ Data sheets prepared by the Corps ○ Corps navigable waters' study: ○ U.S. Geological Survey Hydrologic Atlas: ○ USGS NHD data. ○ USGS 8 and 12 digit HUC maps. ○ U.S. Geological Survey map(s). Cite quad name: ○ USDA Natural Resources Conservation Service Soil S ○ National wetlands inventory map(s). Cite name: ○ State/Local wetland inventory map(s). Cite name: ○ State/Local wetland inventory map(s): ○ FEMA/FIRM maps: ○ Other (Name & Date): ○ Other (Name & Date): ○ Previous determination(s). File no. and date of respons ○ Other information (please specify): IMPORTANT NOTE: The information recorded on this form has not necessarily bead set and the set	applicant/con eport. heation report. Survey. Citations se letter: 2003	on:	Map of Scott Ranch
Signature and Date of Regulatory Project Manager (REQUIRED)			Person Requesting Preliminary JD btaining the signature is impracticable)
EXPLANATION OF PRELIMINARY AND APPROVED JURISDICTIONAL DETT 1. The Corps of Engineers believes that there may be jurisdictional waters of the United hereby advised of his or her option to request and obtain an approved jurisdictional detern has declined to exercise the option to obtain an approved JD in this instance and at this tim 2. In any circumstance where a permit applicant obtains an individual permit, or a Nation or requests verification for a non-reporting NWP or other general permit, and the permit following: (1) the permit applicant has elected to seek a permit authorization based on a p the option to request an approved JD before accepting the terms and conditions of the compensatory mitigation being required or different special conditions; (3) that the appli- other general permit authorization; (4) that the applicant can accept a permit authorizatio requirements the Corps has determined to be necessary; (5) that undertaking any activity acceptance of the use of the preliminary JD, but that either form of JD will be processed undertaking any activity in reliance on any form of Corps permit authorization based on a t that activity are jurisdictional waters of the United States, and precludes any challenge to appeal or in any Federal court; and (7) whether the applicant elects to use either an app proffered individual permit (and all terms and conditions contained therein), or individual appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that admit site, or to provide an official delineation of jurisdictional waters on the site, the Corps will be appeal or the rest of the corps will be readed to corps will be raised to the provide an official delineation of purisdictional waters on the site, the Corps will appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that admit site, or to provide an official delineation of jurisdictional waters on the site, the Corps will appeal of the oper site.	d States on the subj rmination (JD) for me. nwide General Pern it applicant has not preliminary JD, wl e permit authorizat licant has the right ion and thereby ag y in reliance upon t ed as soon as is pr a preliminary JD co to such jurisdictior opproved JD or a pro- al permit denial ca anistrative appeal, i	ect site, and the pet that site. Neverthel nit (NWP) or other t requested an appr nich does not make ion, and that basir to request an indiv ree to comply with the subject permit t acticable; (6) accep onstitutes agreement n in any administrat eliminary JD, that a n be administrative t becomes necessar	ess, the permit applicant or other person who requested this preliminary JD general permit verification requiring "preconstruction notification" (PCN), oved JD for the activity, the permit applicant is hereby made aware of the an official determination of jurisdictional waters; (2) that the applicant has gg a permit authorization on an approved JD could possibly result in less idual permit rather than accepting the terms and conditions of the NWP or all the terms and conditions of that permit, including whatever mitigation authorization without requesting an approved JD constitutes the applicant's sting a permit authorization (e.g., signing a proffered individual permit) or it that all wetlands and other water bodies on the site affected in any way by tive or judicial compliance or enforcement action, or in any administrative JD will be processed as soon as is practicable. Further, an approved JD, a ely appealed pursuant to 33 C.F.R. Part 331, and that in any administrative y to make an official determination whether CWA jurisdiction exists over a

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

Appendix A - Sites

				rr · · ·		
istri tate		an Francisco Distr	tict File/ORM #	# 2003-281630	erson Requesting PJI	PJD Date: Dec 2, 202
				ty 1		
	Site Number	Latitude	Longitude	Cowardin Class	Est. Amount of Aquatic Resourc in Review Area	e Class of Aquatic Resource
	Tributar	38.22°	-122.65°	Riverine	0.317	Non-Section 10 wetland
	Other W	/ 38.22°	-122.65°	Palustrine, emergent	0.271	Non-Section 10 wetland

Notes:

Please see attached table.		



DEPARTMENT OF THE ARMY SAN FRANCISCO DISTRICT, U.S. ARMY CORPS OF ENGINEERS 450 GOLDEN GATE AVENUE SAN FRANCISCO, CALIFORNIA 94102

December 4, 2020

Regulatory Division

Subject: File No. SPN-2003-281630

Mr. Steve Abbs Davidon Homes 1600 South Main Street, Suite 150 Walnut Creek, California 94596 <u>sabbs@davidonhomes.com</u>

Dear Mr. Abbs:

This correspondence is in reference to your submittal of Scott Ranch Jurisdictional Determination received on October 13, 2020, requesting a preliminary jurisdictional determination of the extent of navigable waters of the United States and waters of the United States occurring on a 60.44 acre site located in the City of Petaluma, Sonoma County, California (Latitude 38.22°, Longitude -122.65°).

All proposed discharges of dredged or fill material occurring below the plane of ordinary high water in non-tidal waters of the United States; or below the high tide line in tidal waters of the United States; and within the lateral extent of wetlands adjacent to these waters, typically require Department of the Army authorization and the issuance of a permit under Section 404 of the Clean Water Act of 1972, as amended, 33 U.S.C. § 1344 *et seq*.

The enclosed delineation map titled "Preliminary Jurisdictional Determination pursuant to Section 404 Clean Water Act, SPN-2003-281630, Scott Ranch (UOP Petaluma Property, D Street and Windsor Drive)," in 1 sheet and date certified December 2, 2020, depicts the extent and location of wetlands, and other waters of the United States within the boundary area of the site that **may be** subject to U.S. Army Corps of Engineers' regulatory authority under Section 404 of the Clean Water Act. This preliminary jurisdictional determination is based on the current conditions of the site, as verified during a field investigation of Scott Ranch on November 19, 2020, and a review of other data included in your submittal. While this preliminary jurisdictional determinations, it may be subject to future revision if new information or a change in field conditions becomes subsequently apparent. The basis for this preliminary jurisdictional determination is fully explained in the enclosed *Preliminary Jurisdictional Determination Form*. You are requested to sign and date this form and return it to this office within two weeks of receipt.

You are advised that the preliminary jurisdictional determination may **not** be appealed through the U.S. Army Corps of Engineers' *Administrative Appeal Process*, as described in 33 C.F.R. pt. 331 (65 Fed. Reg. 16,486; Mar. 28, 2000). Under the provisions of 33 C.F.R Section 331.5(b)(9), non-appealable actions include preliminary jurisdictional determinations since they

are considered to be only advisory in nature and make no definitive conclusions on the jurisdictional status of the water bodies in question. However, you may request this office to provide an approved jurisdictional determination that precisely identifies the scope of jurisdictional waters on the site; an approved jurisdictional determination may be appealed through the *Administrative Appeal Process*. If you anticipate requesting an approved jurisdictional determination at some future date, you are advised not to engage in any on-site grading or other construction activity in the interim to avoid potential violations and penalties under Section 404 of the Clean Water Act. Finally, you may provide this office new information for further consideration and request a reevaluation of this preliminary jurisdictional determination.

You may refer any questions on this matter to Kendra Spicher by telephone at 415-503-6832 or by e-mail at Kendra.A.Spicher@usace.army.mil. All correspondence should be addressed to the Regulatory Division, North Branch, referencing the file number at the head of this letter. The San Francisco District is committed to improving service to our customers. The Regulatory staff seeks to achieve the goals of the Regulatory Program in an efficient and cooperative manner while preserving and protecting our nation's aquatic resources. If you would like to provide comments on our Regulatory Program, please complete the Customer Service Survey Form available on our website: <u>https://www.spn.usace.army.mil/Missions/Regulatory.aspx</u>.

Sincerely,

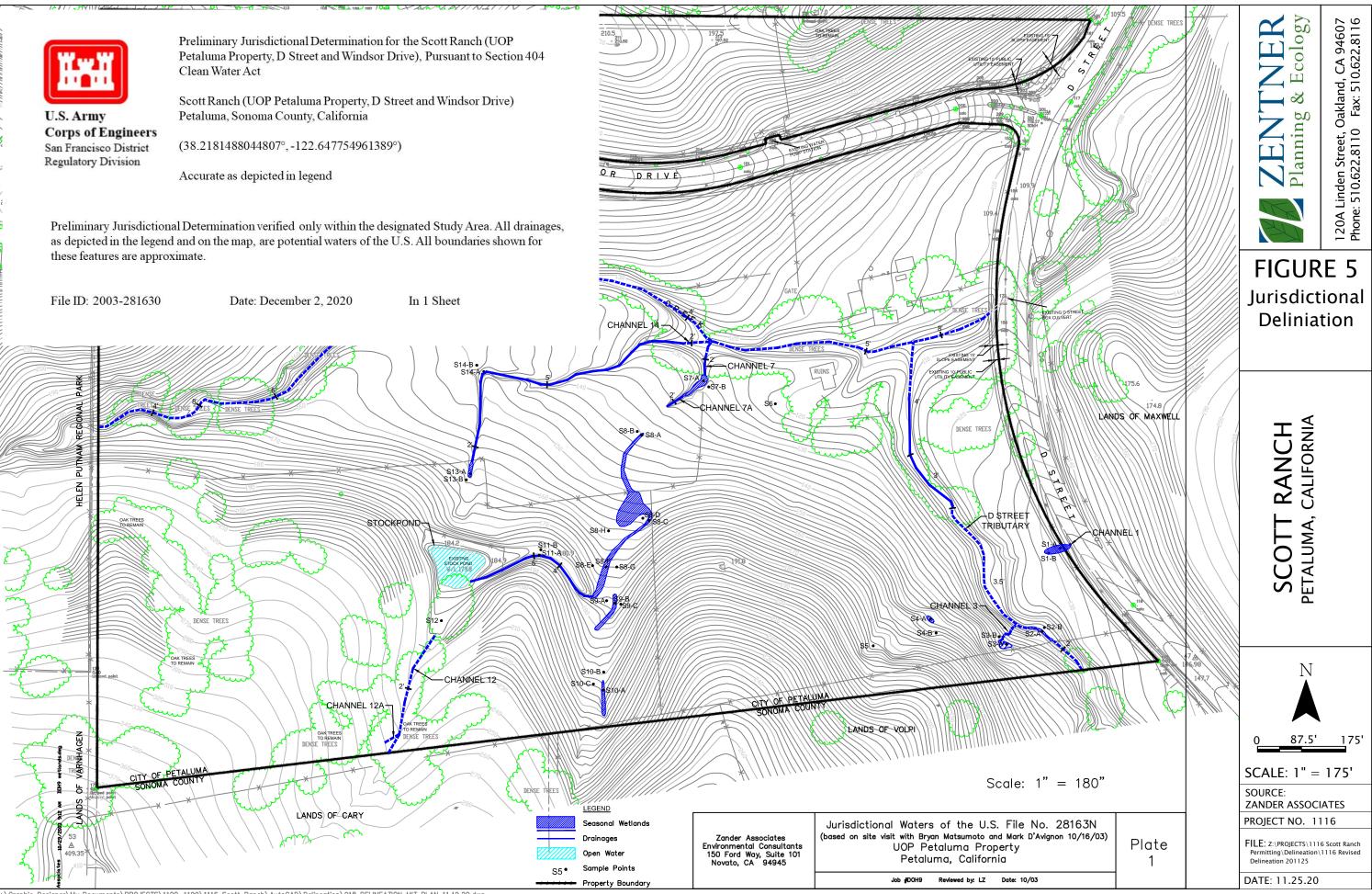
Salvye Cohen

Sahrye Cohen, North Branch Chief, Regulatory Division

Enclosures

cc (w/ encls): Sean Micallef Zentner Planning and Ecology 120 A Linden Street Oakland, CA 94607 seanm@zentner.com

Scott Ranch							
Preliminary Jurisdictional Areas							
Tributaries and channels (Other Waters)							
Area/Name	linear ft (If)	Square ft (sf)	Acres				
Kelly Creek	1969.55	10253	0.235				
D St. Irib	759.75	2681.87	0.062				
Channel 3	50.7	50.7	0.001				
Channel 12	253.68	507.36	0.012				
Channel 12a	32.46	64.92	0.001				
Channel 7	71.6	143.2	0.003				
Channel 7a	32.04	64.08	0.001				
Channel 1	8.6	4.9	0.000				
Channel 14	57.9	115.8	0.003				
Total:	3178.38	13770.03	0.317				
Other Waters							
Area/Name	linear ft (If)	Square ft (sf)	Acres				
Stockpond	NA	6629.96	0.152				
Seasonal wetland	ds						
Area/Name	linear ft (lf)	Square ft (sf)	Acres				
S1A	NA	618.95	0.014				
S2A	NA	146.88	0.003				
S3A	NA	246.48	0.006				
S4A	NA	112.98	0.003				
\$7A	NA	543.82	0.012				
S8A	NA	5118.45	0.118				
S9A	NA	595.21	0.014				
\$10A	NA	409.29	0.009				
\$11A	NA	1300.03	0.030				
\$13A	NA	184.53	0.004				
\$14A	NA	2522.9	0.058				
Total:	NA	11799.52	0.271				



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