AQUATIC RESOURCES DELINEATION AND JURISDICTIONAL DETERMINATION

James Robb Wetland Specialist, Sacramento District 13 April 2018



DELINEATION *‡* DETERMINATION





PJD VS. AJD

Preliminary Jurisdictional Determination	Approved Jurisdictional Determination
Not appealable (instead request an AJD)	Appealable
No set expiration date	Expires after 5 years
Cannot use to disclaim jurisdiction	Required to disclaim jurisdiction
Not posted on the web	Posted on the web
Sufficient for permitting	Sufficient for permitting





Do I need an AJD or PJD to get a permit?

No, Regulatory Guidance Letter 16-01 makes it clear that a jurisdictional determination is not required to get a permit. An aquatic resources delineation is fine.





I have a non-tidal irrigation ditch excavated on dry land in my study area. Can I just leave it off the map and do a PJD?

No, if it's an aquatic resource it needs to be on the map. If it's a preamble excluded water then the Corps will need to do an AJD to disclaim jurisdiction.





Is the Corps required to coordinate all Approved JDs with EPA?

No, the Corps is only required to coordinate isolated & significant nexus calls with EPA. Other non-jurisdictional findings (i.e., preamble excluded waters) do not required EPA coordination but do require an AJD.





What about puddles? The stayed rule talks about these in the same context as the 1986 preamble excluded waters. Do I need to map those?

No, puddles are not aquatic resources since they do not have an OHWM nor are they wet long enough to meet the definition of wetland.





What about rills and gullies? Do I need to map those?

No, rills and gullies are not aquatic resources since they do not have an OHWM nor are they wet long enough to meet the definition of wetland.

We'll see it in the aerials, so take a sample point, describe the situation, take a picture so that I know you didn't just miss it!





How long is EPA's review of an Approved JD?

Region VIII has agreed to review positive significant nexus determinations in 3 days

15 days for a significant nexus determination, 21 days for isolated





What does the aquatic resource delineation verification say about jurisdiction?

Absolutely nothing. A delineation is purely about the extent of aquatic resources (streams, lakes, ponds, wetlands, etc.) within the review area. It will not discuss whether or not those areas are jurisdictional.





Can I appeal an aquatic resources delineation verification?

No, but if you have new information you can always ask us to reconsider a delineation verification. You can also request an AJD, which is appealable.





I believe my activity is exempt. What do I need from the Corps?

You don't need anything from the Corps...as long as you are right. If you want us to check we can. If we agree we will issue a no permit required letter.





AJD/PJD FAQS

Where can I find jurisdictional determinations on the web?

The Sacramento District publishes all of its approved jurisdictional determinations at http://www.spk.usace.army.mil/Missions/Regulatory/Jurisdiction.aspx





I don't have any aquatic resources on my property, will the Corps issue me a "no permit required" letter?

The no permit required letter is not necessary in this case, but what is necessary is an AJD. We cannot say that a review area has no waters of the U.S. without an AJD.





If an aquatic resource delineation verification is fine for permitting and only an AJD can disclaim jurisdiction, what is the PJD for?

Hmm...that's a good question. But if you need one maybe for a state or local approval we can do that.





Do I have to use the jurisdictional determination request form?

No, but we are going to need all the information that's contained in the form so it would really help us out if you'd use it. Thanks!





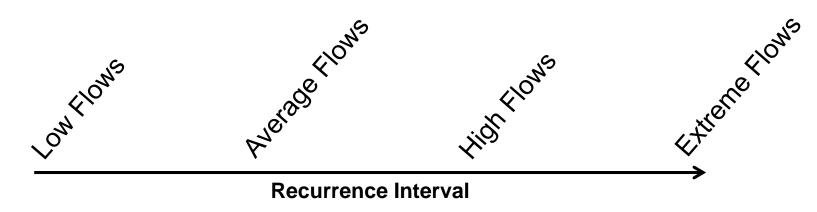
ORDINARY HIGH WATER MARK (OHWM) FUNDAMENTALS





HOW IS THE OHWM CHARACTERIZED HYDROLOGICALLY?

 "ordinary high water" implies flow levels that are above average, but less than extreme, and that occur with some regularity



 But the OHWM is <u>NOT</u> associated with a specific streamflow recurrence interval (e.g., the 2-yr discharge)





CONCEPTS OF THE OHWM

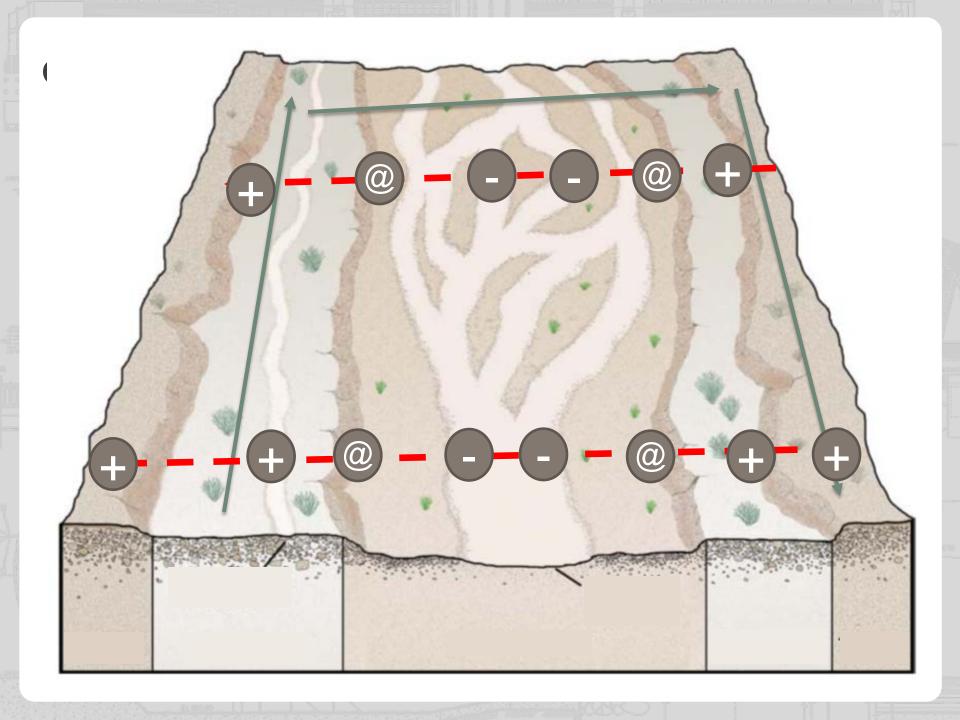
We have a general notion of the hydrology associated with the OHWM (average < OHWM < extreme)

BUT, the OHWM is ultimately <u>defined by physical characteristics</u> and should be <u>represented by an actual mark on the landscape</u>









LOW-FLOW CHANNEL(S)



Contains water most frequently Unstable; migrates within the active channel

Formed during flood recession and/or maintained by persistent low flows





ACTIVE CHANNEL



Principle zone of erosion and sediment transport Typically shaped & maintained by moderate floods

Typically characterized by relative lack of vegetation, abundance of coarse sediment

*OHWM typically corresponds with active channel boundary





FLOODPLAIN



Zone of deposition Characterized by wellestablished vegetation and fine sediment relative to the active channel Term has many meanings/uses Not always present





OHWM INDICATORS IN THE ARID WEST

Above (+), At (@) or Below (-) the OHWM







Drift (organic debris, larger than twigs)







Desiccation/mud cracks







Scour holes downstream of obstructions







Change in particle size distribution







Soil development







Break in bank slope







Flaser bedding (organics & fines between ripples/dunes)







Ripples or Dunes







Change in particle size distribution & break in slope







Sparse low vegetation







Break in slope







Mature Trees





VERIFYING AQUATIC RESOURCES DELINEATIONS

What do I look for? How can you help?





DOES IT MAKE SENSE?

Check for past verifications/delineations Check the dates Check for corroborating sources of information Check for difficult situations





DATE	DESCRIPTION	EVENT
10/3/2005	sample point	01
10/6/2005	sample point	01
6/29/2015	sample point	01
6/30/2015	sample point	02
2/3/2016	sample point	03
2/25/2016	sample point	04
2/26/2016	sample point	05
2/29/2016	sample point	06
3/1/2016	sample point	07
4/19/2016	DA site visit	DA01
4/20/2016	DA site visit	DA02
4/21/2016	DA site visit	DA03





DATE	DESCRIPTION	EVENT	Season
10/3/2005	sample point	01	Dry
10/6/2005	sample point	01	Dry
6/29/2015	sample point	01	Dry
6/30/2015	sample point	02	Dry
2/3/2016	sample point	.03	Wet
2/25/2016	sample point	04	Wet
2/26/2016	sample point	05	Wet
2/29/2016	sample point	06	Wet
3/1/2016	sample point	.07	Wet
4/19/2016	DA site visit	DA01	Wet
4/20/2016	DA site visit	DA02	Wet
4/21/2016	DA site visit	DA03	Wet





DATE	DESCRIPTION	EVENT	Season	PDSI
10/3/2005	sample point	01	Dry	mid
10/6/2005	sample point	01	Dry	mid
6/29/2015	sample point	01	Dry	severe drought
6/30/2015	sample point	02	Dry	severe drought
2/3/2016	sample point	03	Wet	moderate drought
2/25/2016	sample point	04	Wet	moderate drought
2/26/2016	sample point	05	Wet	moderate drought
2/29/2016	sample point	06	Wet	moderate drought
3/1/2016	sample point	ESA07	Wet	mid
4/19/2016	DA site visit	DA01	Wet	
4/20/2016	DA site visit	DA02	Wet	
4/21/2016	DA site visit	DA03	Wet	





DIFFICULT SITUATION?

Did they follow the proper procedure concerning *drought*?





ANTECEDENT PRECIPITATION

Arid West Supplement cites two methods

- "Hydrology tools for wetland determination" (Chapter 19 in Engineering Field Handbook USDA 1997)
- Accessing and Using Meteorological Data to Evaluate Wetland Hydrology (ERDC/EL TR-WRAP-00-1, Sprecher and Warne 2000)



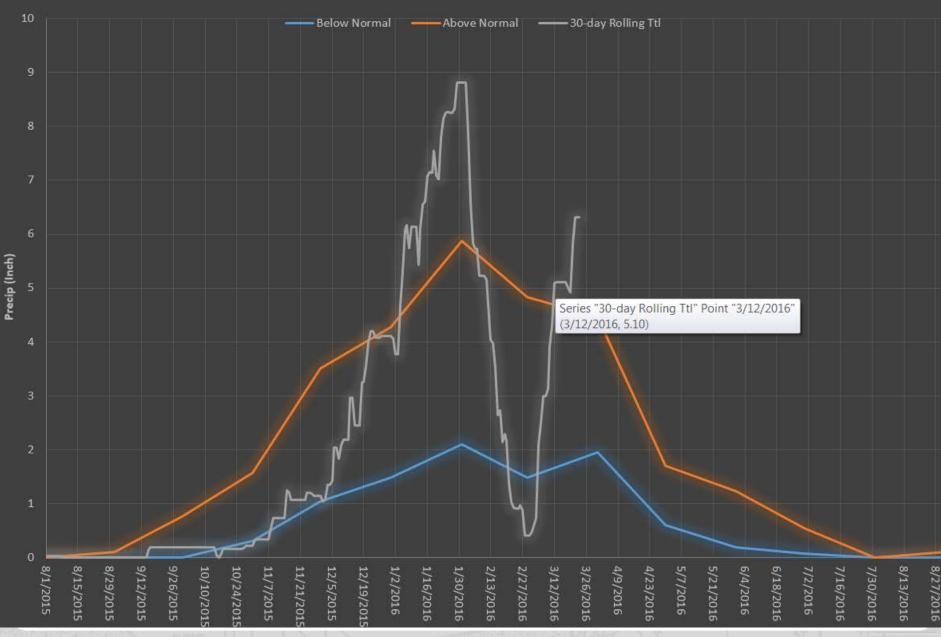


Figure 19-7 Rainfall documentation worksheet

Rainfall Documentation (use with photographs) Date: 9/91 Weather station: Colusa 255W Landowner: Tract no. County: Colusa State: Soil name: Moon bend Growing seaso Photo date: 8 25/15 Long-term rainfall records 3 yrs. in 3 yrs. ir Condition Condition Month Product of 10 less 10 more dry, wet, Rain value weight previous two Month than Normal than fall columns normal value 1st prior month* ANC AU. 2 3 NA 0.04 0.00 normal 6 4 MA 2 2nd prior month* JUL 0.04 NA 0.03 norna 2 0,20 0.00 3rd prior month* JUN D.20 2 2 0:00 norma 1 Sum Compared to photo date * 2 Note: If sum is Condition value: then prior period has been =1 6 - 9 Dry differ than normal Normal =2 then prior period has been 0-14 Wet =3 normal then prior period has been 15 - 18 wetter than normal conclusions: Antecedent precip was within the range of normal.



Tehama Co Red Bluff Muni AP Precipitation



STREET DOWNSTREET

DATE	DESCRIPTION	EVENT	2nd Prior 30 days	3rd Prior 30 Days	Condition (1st Prior 30 Days)		Condition (3rd Prior 30 Days)	Antecedent Precip
10/3/2005	sample point	01	9/3/2005	8/4/2005	Normal	Normal	Normal	Normal
10/6/2005	sample point	01	9/6/2005	8/7/2005	Normal	Normal	Normal	Normal
6/29/2015	sample point	01	5/30/2015	4/30/2015	Normal	Dry	Normal	Normal
6/30/2015	sample point	02	5/31/2015	5/1/2015	Normal	Dry	Normal	Normal
2/3/2016	sample point	03	1/4/2016	12/5/2015	Normal	Dry	Normal	Normal
2/25/2016	sample point	04	1/26/2016	12/27/2015	Dry	Normal	Dry	Dry
2/26/2016	sample point	05	1/27/2016	12/28/2015	Dry	Normal	Dry	Dry
2/29/2016	sample point	06	1/30/2016	12/31/2015	Dry	Normal	Dry	Dry
3/1/2016	sample point	07	1/31/2016	1/1/2016	Dry	Normal	Dry	Dry
4/19/2016	DA site visit	DA01	3/20/2016	2/19/2016	Dry	Wet	Dry	Normal
4/20/2016	DA site visit	DA02	3/21/2016	2/20/2016	Dry	Wet	Dry	Normal
4/21/2016	DA site visit	DA03	3/22/2016	2/21/2016	Dry	Wet	Dry	Normal





DRAFT

DATE DESCRIPTION 12/11/1940 USGS Aerial Photo 4/22/1982 USGS Aerial Photo 8/15/1998 Digital Ortho Quad 2/24/2006 Quick Bird satellite image 12/4/2006 Quick Bird satellite image 3/26/2010 Orb View satellite image 2/8/2011 World View satellite image 11/4/2013 World View satellite image 6/18/2014 World View satellite image 3/15/2015 World View satellite image 3/27/2015 World View satellite image

6/16/2015 6/17/2015 6/18/2015 6/19/2015 6/20/2015 sample point range 6/15sample point range 6/15sample point range 6/15sample point range 6/15sample point range 6/15-

7/3/2015 World View satellite image 9/22/2015 World View satellite image

20150327 WV01 01 02 03 04 05

EVENT

19401211 USGS

19820422 USGS

19980815 DOQ

20060224 QB02

20061204 QB02

20100326 OV05

20110208 WV02

20131104 WV01

20140618 WV02

20150315_WV01

20150703 WV02 20150922 WV02

Antecedent Precip by Event Date

SPK-

Weather Station: Modesto CITY CO AP

		Condition	Condition	Condition		
2nd Prior 30	3rd Prior 30	(1st Prior			Antecedent	
days	Days	30 Days)	30 Days)	30 Days)	Precip	Season
11/11/1940	10/12/1940	Dry	Normal	Dry	Dry	Wet
3/23/1982	2/21/1982	Wet	Wet	Normal	Wet	Wet
7/16/1998	6/16/1998	Normal	Normal	Wet	Normal	Dry
1/25/2006	12/26/2005	Dry	Normal	Wet	Normal	Wet
11/4/2006	10/5/2005	Normal	Dry	Normal	Normal	Wet
2/24/2010	1/25/2010	Normal	Normal	Wet	Normal	Wet
1/9/2011	12/10/2010	Dry	Wet	Wet	Normal	Wet
10/5/2013	9/5/2013	Dry	Normal	Normal	Dry	Dry
5/19/2014	4/19/2014	Normal	Normal	Normal	Normal	Dry
2/13/2015	1/14/2015	Dry	Normal	Normal	Dry	Wet
2/25/2015	1/26/2015	Dry	Normal	Dry	Dry	Wet
5/17/2015	4/17/2015	Normal	Normal	Dry	Normal	Dry
5/18/2015	4/18/2015	Normal	Normal	Dry	Normal	Dry
5/19/2015	4/19/2015	Normal	Normal	Dry	Normal	Dry
5/20/2015	4/20/2015	Normal	Normal	Dry	Normal	Dry
5/21/2015	4/21/2015	Normal	Normal	Dry	Normal	Dry
6/3/2015	5/4/2015	Normal	Normal	Normal	Normal	Dry
8/23/2015	7/24/2015	Normal	Normal	Normal	Normal	Dry



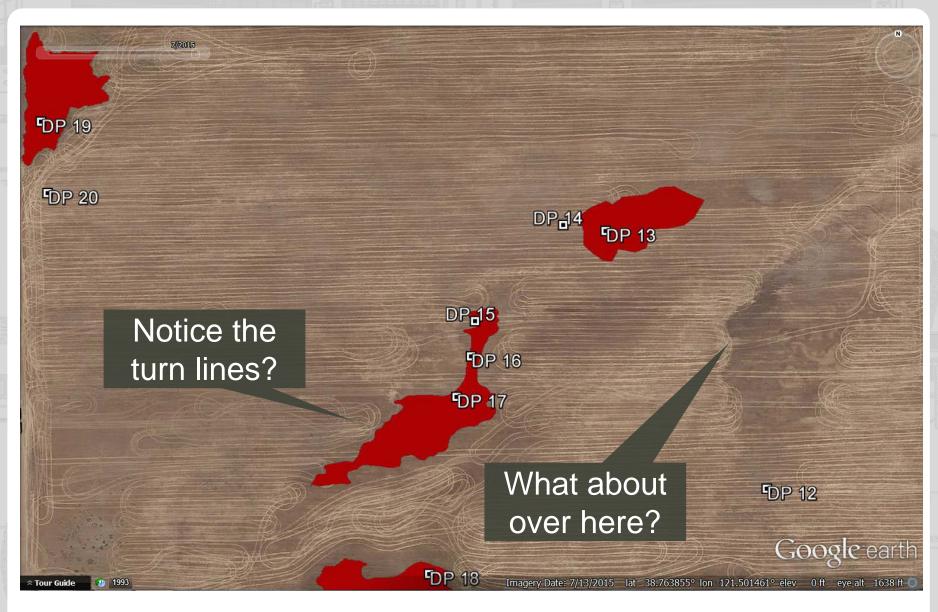


DIFFICULT SITUATION?

Did the observer follow the proper procedure concerning *periods with below-normal rainfall?*

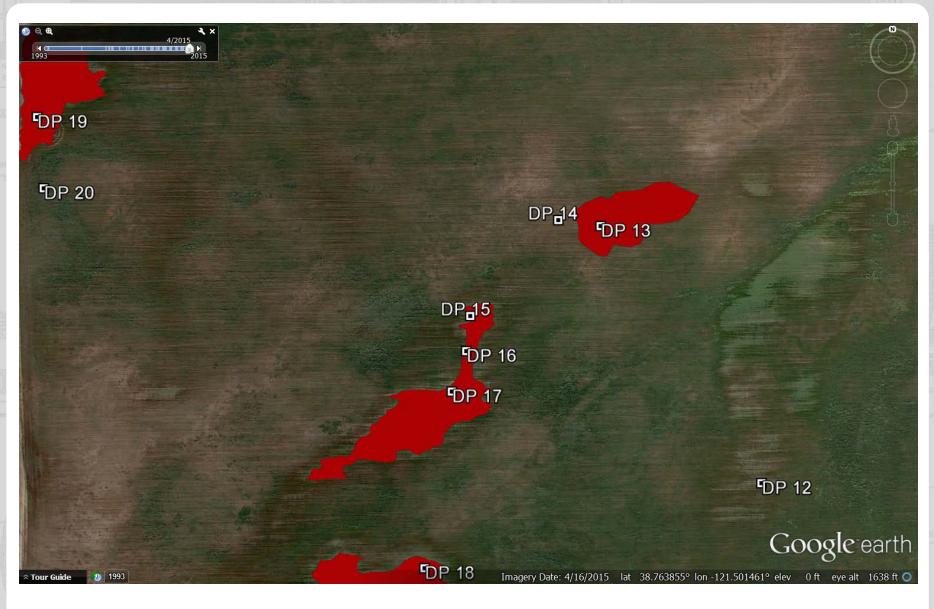






























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