



Oregon

Kate Brown, Governor

Department of State Lands

775 Summer Street NE, Suite 100

Salem, OR 97301-1279

(503) 986-5200

FAX (503) 378-4844

www.oregon.gov/dsl

State Land Board

Kate Brown

Governor

May 3, 2018

Calico Resources USA Corp

Attn: Nancy Wolverson

665 Anderson St.

Winnemucca, NV 89445

Re: WD #2018-0115 Wetland Delineation Report for Grassy Mountain Mine Project Malheur County; T22S R44E (Sections 5-8), Tax Lot 100, T21S R44E (Section 3, 10, 11, 14, 15, 21-23, 28, 29, 32), Tax Lot 100, T20S R44E (Sections 1, 6, 7, 12-14, 23, 26-27, 34), Tax Lots 100 and 300, T19S 44E (Sections 22-23, 26, 35-36), Tax Lots 600 and 900

Dennis Richardson

Secretary of State

Tobias Read

State Treasurer

Dear Ms. Wolverson:

The Department of State Lands has reviewed the wetland delineation report prepared by EM Strategies for the site referenced above. Please note that the study area includes only a portion of the tax lots described above (see the attached map). Based upon the information presented in the report, we concur with the wetland and waterway boundaries as mapped in Figures 4a-4h of the report. Please replace all copies of the preliminary wetland map with these final Department-approved maps.

Within the study area, two wetlands (Wetland 1-2) totaling approximately 0.20 acres, one waterway (J-H Canal), ten tributary drainages (Tributaries 1-10), and one reservoir (Schweizer Reservoir) were identified. Wetlands 1-2 and the J-H Canal are subject to the permit requirements of the state Removal-Fill Law. Under current regulations, a state permit is required for cumulative fill or annual excavation of 50 cubic yards or more in the wetlands or below the ordinary high-water line (OHWL) of the waterway (or the 2 year recurrence interval flood elevation if OHWL cannot be determined). The ten tributaries and Schweizer Reservoir are exempt per OAR 141-085-0515(3) and -0515(7); therefore, are not subject to current state Removal-Fill requirements.

This concurrence is for purposes of the state Removal-Fill Law only. Federal or local permit requirements may apply as well. The Army Corps of Engineers will determine jurisdiction for purposes of the Clean Water Act. We recommend that you attach a copy of this concurrence letter to both copies of any subsequent joint permit application to speed application review.

Please be advised that state law establishes a preference for avoidance of wetland impacts. Because measures to avoid and minimize wetland impacts may include reconfiguring parcel layout and size or development design, we recommend that you

work with Department staff on appropriate site design before completing the city or county land use approval process.

This concurrence is based on information provided to the agency. The jurisdictional determination is valid for five years from the date of this letter unless new information necessitates a revision. Circumstances under which the Department may change a determination are found in OAR 141-090-0045 (available on our web site or upon request). In addition, laws enacted by the legislature and/or rules adopted by the Department may result in a change in jurisdiction; individuals and applicants are subject to the regulations that are in effect at the time of the removal-fill activity or complete permit application. The applicant, landowner, or agent may submit a request for reconsideration of this determination in writing within six months of the date of this letter.

Thank you for having the site evaluated. Please phone me at 503-986-5218 if you have any questions.

Sincerely,



Lauren Brown
Jurisdiction Coordinator

Approved by



Kathy Verble, CPSS
Aquatic Resource Specialist

Enclosures

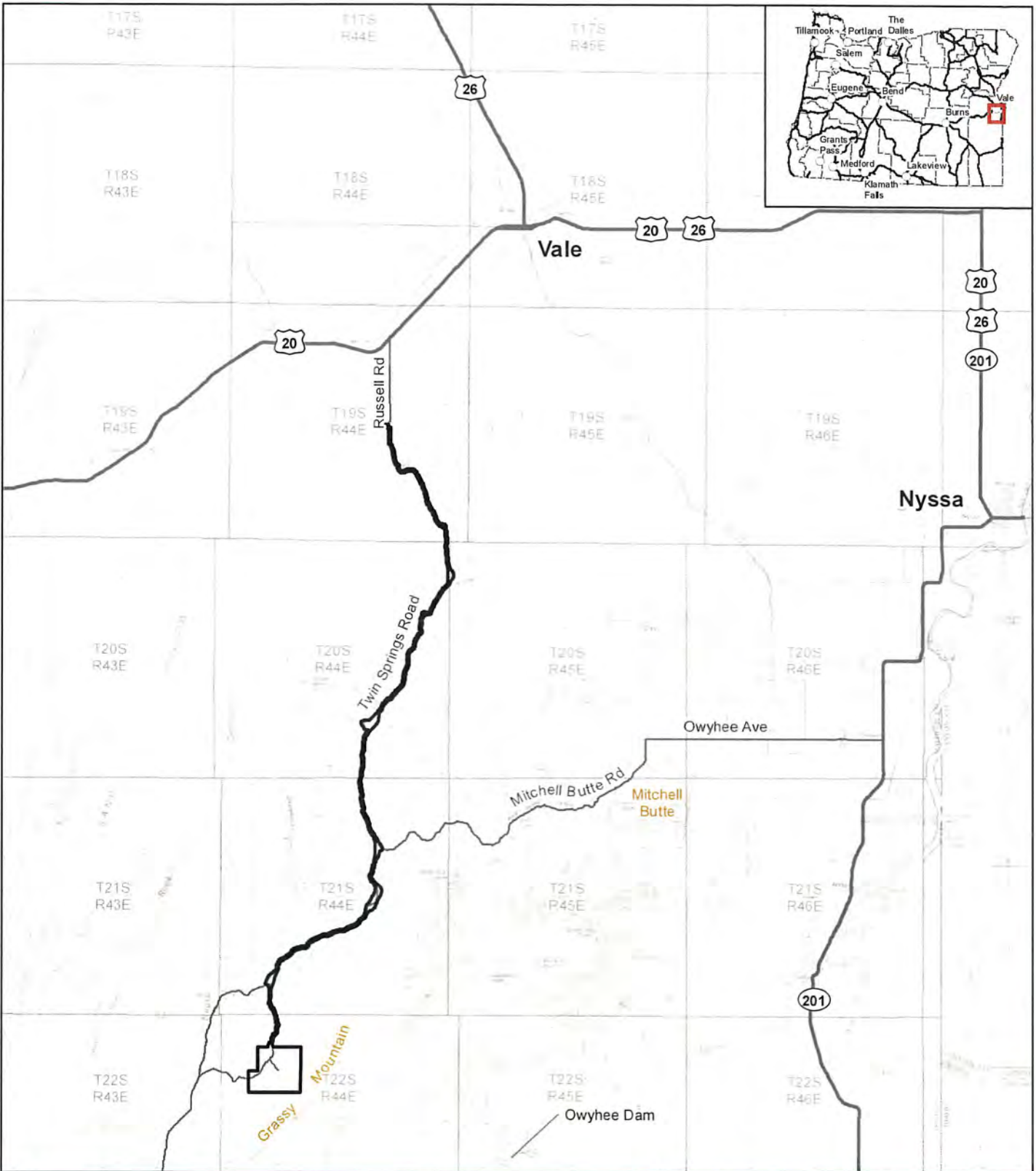
ec: Sarah Harrelson, EM Strategies, Inc.
Malheur County Planning Department (Maps enclosed for updating LWI)
Benny Dean, Corps of Engineers
Janet Gillaspie, Environmental Strategies, LLC
Randy Jones, DOGAMI
Bethany Harrington, DSL
Kirk Jarvie, DSL

WETLAND DELINEATION / DETERMINATION REPORT COVER FORM

Fully completed and signed report cover forms and applicable fees are required before report review timelines are initiated by the Department of State Lands. Make checks payable to the Oregon Department of State Lands. To pay fees by credit card, go online at <https://apps.oregon.gov/DSL/EPS/program?key=4>.

Attach this completed and signed form to the front of an unbound report or include a hard copy with a digital version (single PDF file of the report cover form and report, minimum 300 dpi resolution) and submit to: **Oregon Department of State Lands, 775 Summer Street NE, Suite 100, Salem, OR 97301-1279**. A single PDF of the completed cover form and report may be e-mailed to **Wetland_Delineation@dsl.state.or.us**. For submittal of PDF files larger than 10 MB, e-mail DSL instructions on how to access the file from your ftp or other file sharing website.

Contact and Authorization Information	
<input checked="" type="checkbox"/> Applicant <input type="checkbox"/> Owner Name, Firm and Address: Calico Resources USA Corp 665 Anderson St. Winnemucca, NV 89445	Business phone # (775) 625-3600 Mobile phone # (optional) E-mail: nancy@paramountnevada.com
<input checked="" type="checkbox"/> Authorized Legal Agent, Name and Address (if different): Same as Above Attention: Nancy J Wolverson	Business phone # (775) 625-3600 Mobile phone # (optional) (775) 770-4615 E-mail: nancy@paramountnevada.com
I either own the property described below or I have legal authority to allow access to the property. I authorize the Department to access the property for the purpose of confirming the information in the report, after prior notification to the primary contact.	
Typed/Printed Name: Nancy J Wolverson Signature: Date: 03/01/2018 Special instructions regarding site access: _____ Digitally signed by Nancy J Wolverson Date: 2018.03.01 11:08:18 -08'00'	
Project and Site Information	
Project Name: Grassy Mountain Mine Project	Latitude: 43.729922 Longitude: -117.337827 decimal degree - centroid of site or start & end points of linear project
Proposed Use: hard rock mining	Tax Map # Tax lots: 100, 300, 400, 600, 900 Tax Lot(s)
Project Street Address (or other descriptive location): Malheur County, Oregon, approximately 22 miles south-southwest of Vale, Oregon	Tax Map # Tax Lot(s)
City: n/a County: Malheur	Township 22S Range 44E Section see a# QQ + Use separate sheet for additional tax and location information
Waterway: Malheur River River Mile: n/a	
Wetland Delineation Information	
Wetland Consultant Name, Firm and Address: Sarah M. Harrelson of EM Strategies, Inc. 1650 Meadow Wood Lane Reno, NV 89502	Phone # (775) 826-8822 Mobile phone # (if applicable) E-mail: sarah@emstrats.com
The information and conclusions on this form and in the attached report are true and correct to the best of my knowledge.	
Consultant Signature:	Date: 3/1/18
Primary Contact for report review and site access is <input type="checkbox"/> Consultant <input type="checkbox"/> Applicant/Owner <input checked="" type="checkbox"/> Authorized Agent	
Wetland/Waters Present? <input type="checkbox"/> Yes <input type="checkbox"/> No Study Area size: 1,762 acres Total Wetland Acreage: 0.29 acres	
Check Applicable Boxes Below	
<input type="checkbox"/> R-F permit application submitted <input type="checkbox"/> Mitigation bank site <input type="checkbox"/> Industrial Land Certification Program Site <input type="checkbox"/> Wetland restoration/enhancement project (not mitigation) <input checked="" type="checkbox"/> Previous delineation/application on parcel If known, previous DSL # <u>WD2015-0432</u>	<input checked="" type="checkbox"/> Fee payment submitted \$ <u>\$437</u> <input type="checkbox"/> Fee (\$100) for resubmittal of rejected report <input type="checkbox"/> Request for Reissuance. See eligibility criteria. (no fee) DSL # _____ Expiration date _____ <input type="checkbox"/> LWI shows wetlands or waters on parcel Wetland ID code _____
For Office Use Only	
DSL Reviewer: <u>LB</u> Fee Paid Date: ____/____/____	DSL WD # <u>2018-0115</u>
Date Delineation Received: <u>3/1/18</u> Scanned: <input type="checkbox"/> Electronic: <input checked="" type="checkbox"/>	DSL App.# _____



Explanation
 [Black Rectangle] Wetland Study Area
 [Solid Line] Existing Road

Sources:
 PLS: BLM
 Roads: US Census Bureau
 Basemap: Copyright © 2013 National Geographic Society, i-cubed

CALICO RESOURCES USA CORP.
 GRASSY MOUNTAIN MINE PROJECT
 Location Map

Projection: UTM Zone 11 North, NAD83, meters

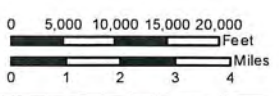
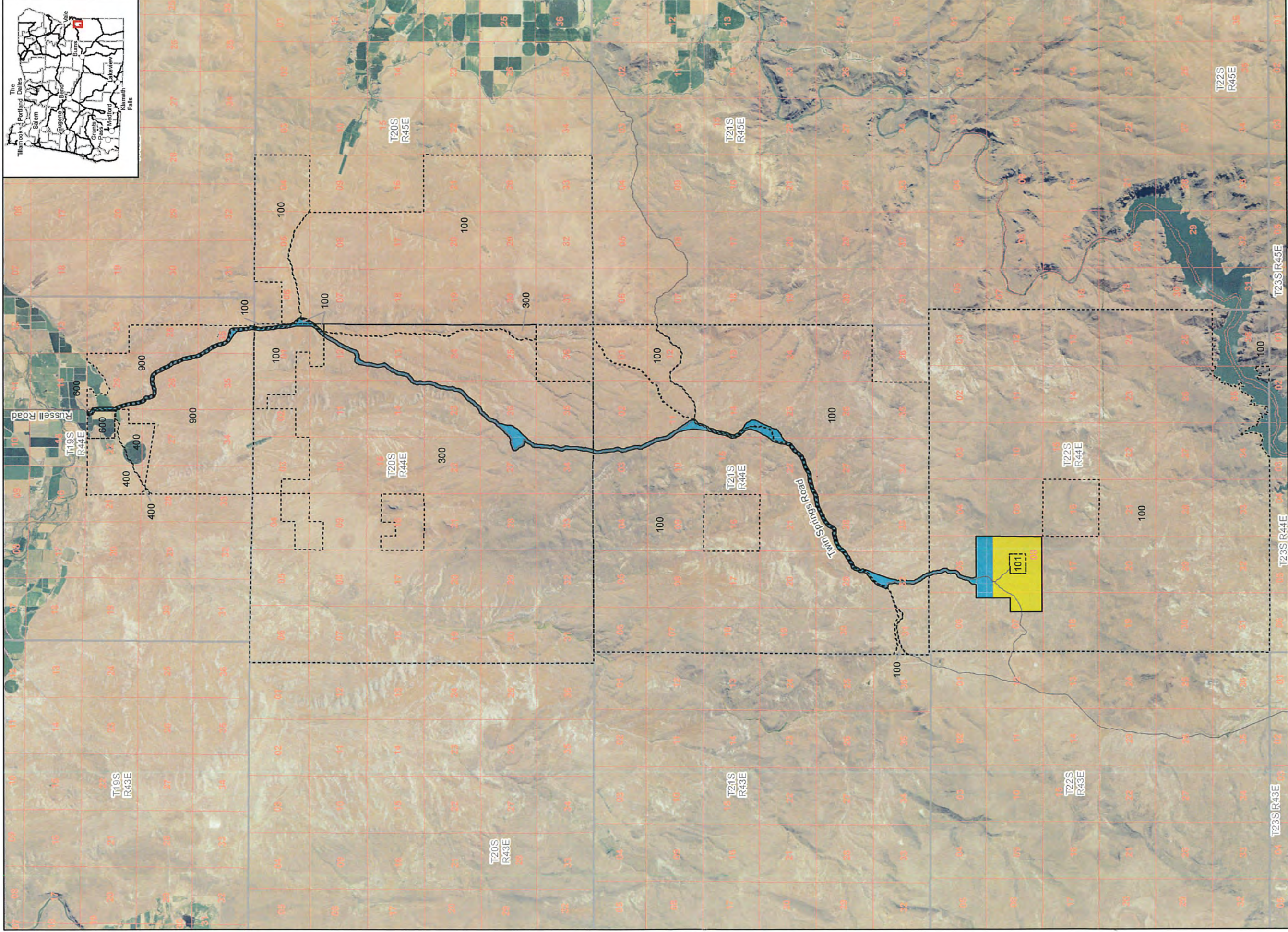
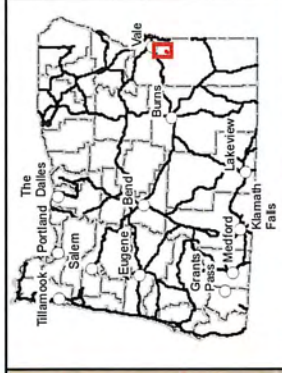


Figure 1
 Date: 01/19/2018 Drawn By: JDB
 Revised: Project No.: 3678
 Base Map: USGS 100K quads: Boise, Bregan, Vale, Weiser
 File Name: 3678G_GrassyMin_BL_WD_Fig01_Location.mxd



Explanation

- Wetland Study Area
- Tax Lot
- Wetland Study Area (2017)
- HDR Wetland Study Area (2015)
- Existing Road

Sources:
 PLSS: BLM
 Roads: US Census Bureau
 Tax Lots: Malheur County, OR Dept of Revenue
 Basemap: NRCSS/USDA Digital Gateway



Projection: UTM Zone 11 North, NAD83, meters

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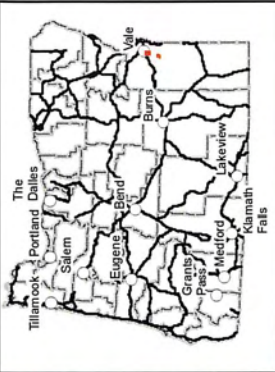
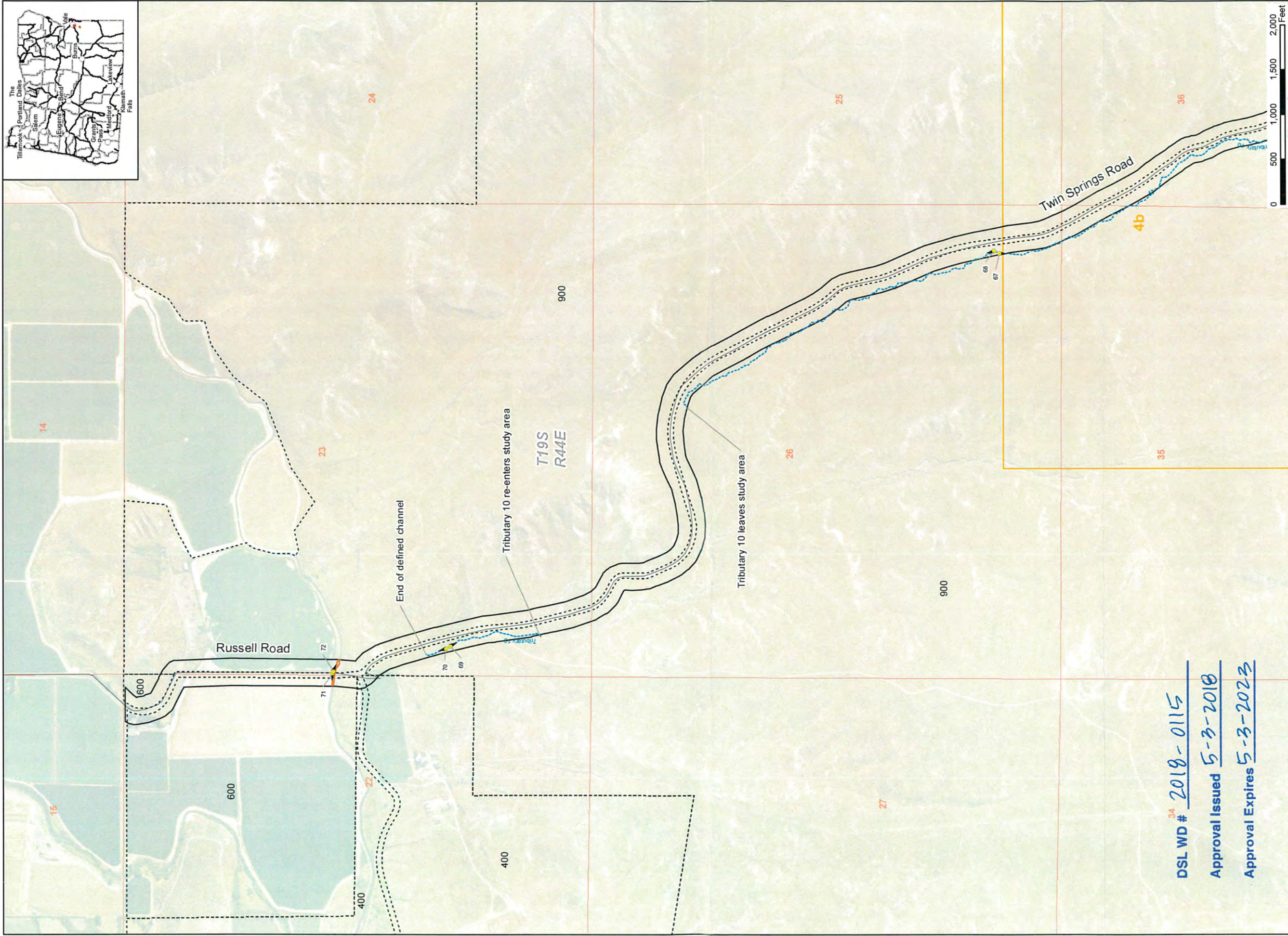
GRASSY MOUNTAIN MINE PROJECT

**Wetland Study Areas
and Tax Lots**

Figure 2

CSRS: 01/19/2018
 User: JDB
 Project No.: 3678
 Base Map: 2016 NADP 1 meter resolution
 File Name: 3678_GrassyMtn_BL_WD_Fig02_StudyAreas.mxd



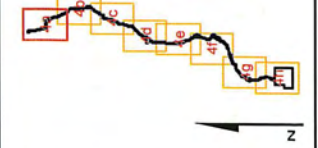


- Explanation**
- Wetland Study Area
 - Tax Lot
 - Map Extent
 - Existing Road
 - ▲ Photo Point
 - Ephemeral Drainage
 - Artificial Water Body (J-H Canal)
- Projection: UTM Zone 11 North, NAD83, meters

DSL WD # ³⁴ 2018-0115
 Approval Issued 5-3-2018
 Approval Expires 5-3-2023

Sources:
 PLSS: BLM
 Roads: US Census Bureau
 Tax Lots: Malheur County, OR Dept of Revenue
 Basemap: NRCSS/USDA Digital Gateway

Accuracy (EMIS):
 Wetlands survey fieldwork completed May 7, 2013. Locations captured using sub-meter resource grade GPS units with 93.8% of positions captured having a horizontal accuracy of less than 1/2 meter after post-processing. Survey field work completed April 7, 2015. Locations captured using sub-meter resource grade equipment with 84.9% of positions captured having a horizontal accuracy of less than 1/2 meter after post-processing.
 Wetlands survey fieldwork conducted May 18-21, 2017. Locations captured using a sub-meter resource grade GPS unit with 60.3% of positions captured having a horizontal accuracy of less than 1/2 meter and 91.5% of positions captured having a horizontal accuracy of less than 1 meter after post-processing.

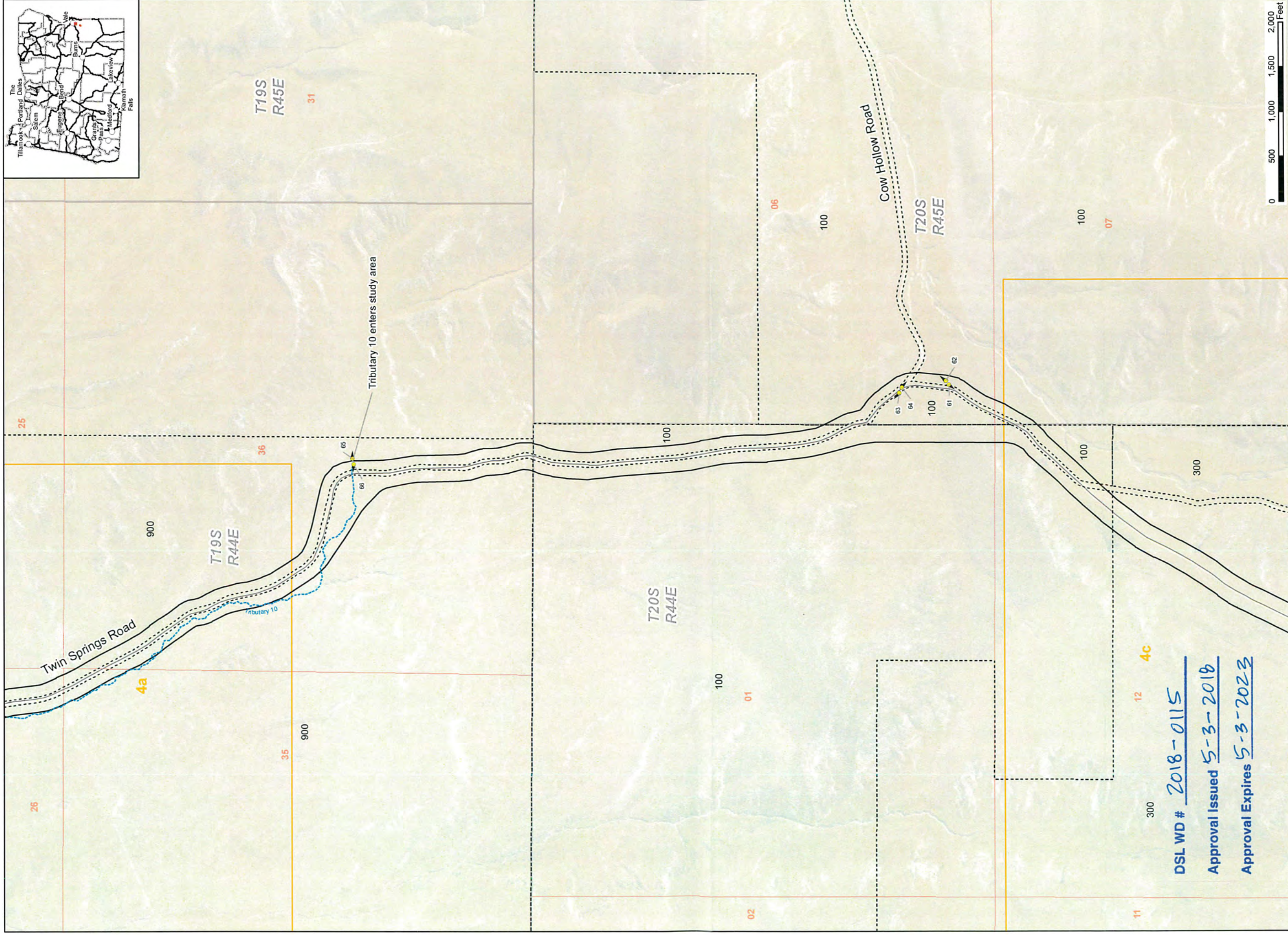
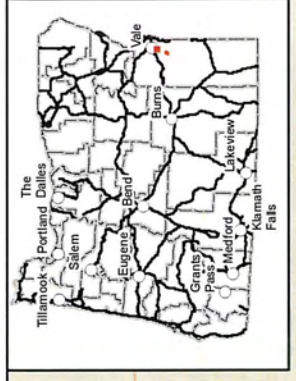


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 GRASSY MOUNTAIN MINE PROJECT

Wetland Map Book

Figure 4a

Date:	01/23/2018	Drawn By:	JB
Revised:		Project No.:	3678
Scale:	Map: 2018 MAP 1 meter resolution		
File:	N:\C:\ms378G_GrassyMtn_BL_WD_Fig04_Result2x.mxd		



DSL WD # 2018-0115
Approval Issued 5-3-2018
Approval Expires 5-3-2023

- Explanation**
- Wetland Study Area
 - Tax Lot
 - Map Extent
 - Existing Road
 - ▲ Photo Point
 - Ephemeral Drainage

Sources: BLM
 PLSS: US Census Bureau
 Roads: US Census Bureau
 Tax Lots: Malheur County, OR Dept of Revenue
 Basemap: NRCSS/USDA Digital Gateway
Accuracy (EMS):
 Wetlands survey fieldwork completed May 7, 2013. Locations captured using sub-meter resource grade GPS units with 93.8% of positions captured having a horizontal accuracy of less than 1/2 meter after post-processing. Survey field work completed April 7, 2015. Locations captured using sub-meter resource grade equipment with 84.9% of positions captured having a horizontal accuracy of less than 1/2 meter after post-processing.
 Wetlands survey fieldwork conducted May 18-21, 2017. Locations captured using a sub-meter resource grade GPS unit with 60.3% of positions captured having a horizontal accuracy of less than 1/2 meter and 91.5% of positions captured having a horizontal accuracy of less than 1 meter after post-processing.

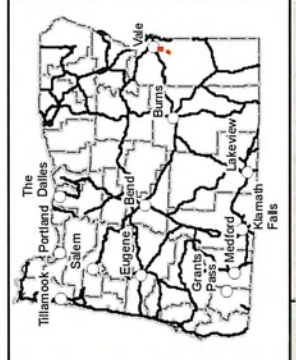
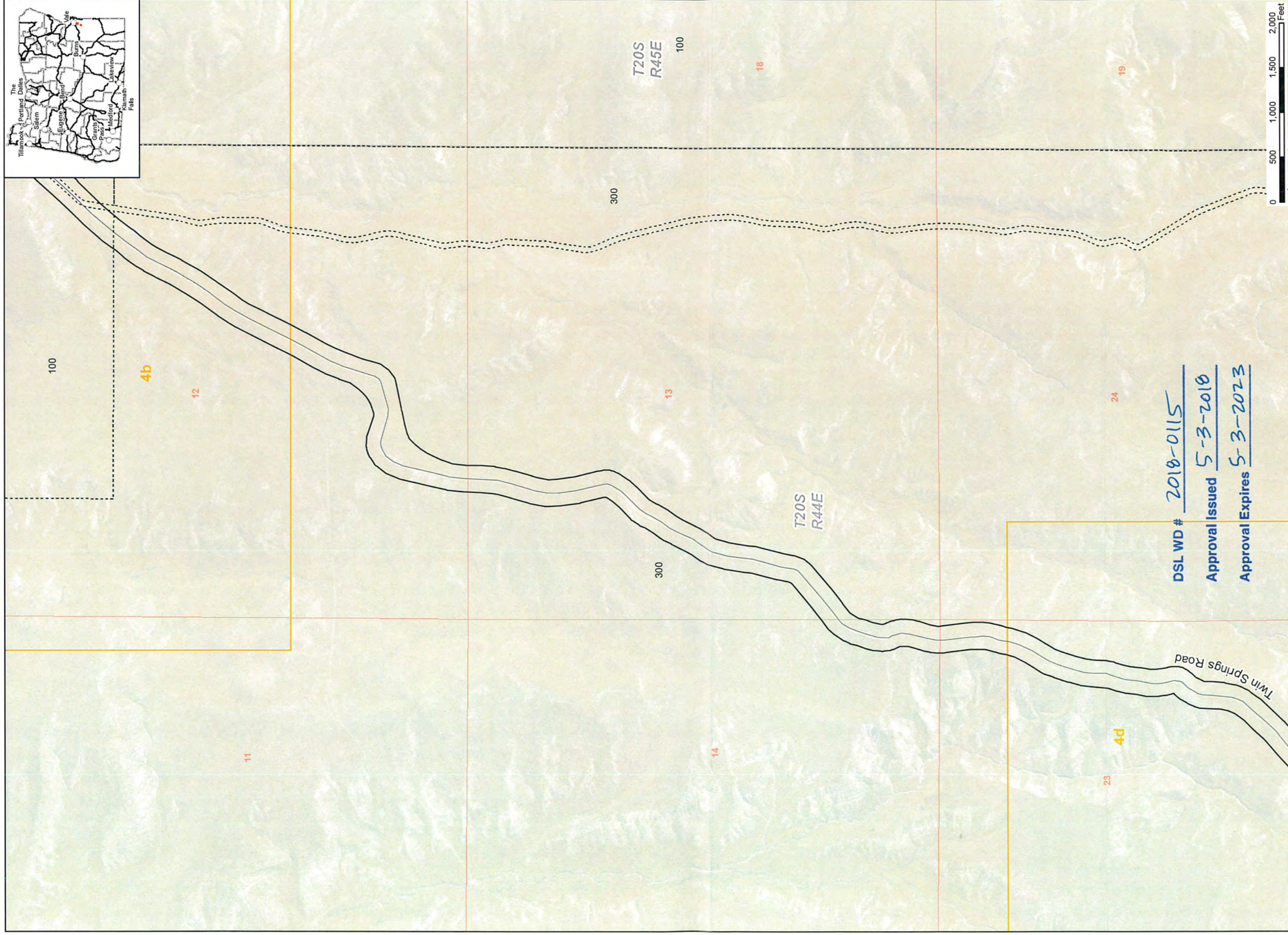


CALICO RESOURCES USA CORP.
GRASSY MOUNTAIN MINE PROJECT
Wetland Map Book

Figure 4b

Date: 01/23/2018	Drawn By: JOB
Revision: 01	Project No.: 3578
Esri Map: 2018 MAP 1 meter resolution File Name: 3578G_GrassyMtn_BL_WD_Fig4_Results12a.mxd	

Projection: UTM Zone 11 North, NAD83, meters

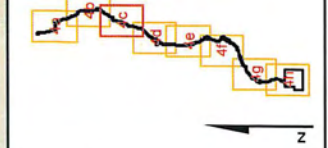


- Explanation**
- Wetland Study Area
 - Tax Lot
 - Map Extent
 - Existing Road

Sources:
 PLS: BLM
 Roads: US Census Bureau
 Tax Lots: Malheur County, OR Dept of Revenue
 Basemap: NRCSS/USDA Digital Gateway

Accuracy (EMS):
 Wetlands survey fieldwork completed May 7, 2013. Locations captured using sub-meter resource grade GPS units with 93.8% of positions captured having a horizontal accuracy of less than 1/2 meter after post-processing. Survey field work completed April 7, 2015. Locations captured using sub-meter resource grade equipment with 84.9% of positions captured having a horizontal accuracy of less than 1/2 meter after post-processing.
 Wetlands survey fieldwork conducted May 18-21, 2017. Locations captured using a sub-meter resource grade GPS unit with 80.3% of positions captured having a horizontal accuracy of less than 1/2 meter and 91.5% of positions captured having a horizontal accuracy of less than 1 meter after post-processing.

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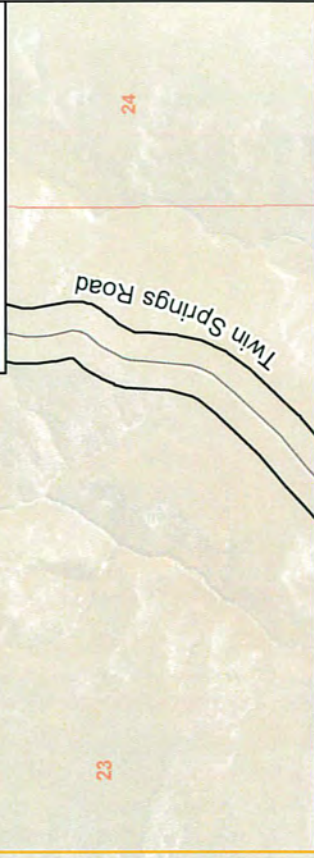
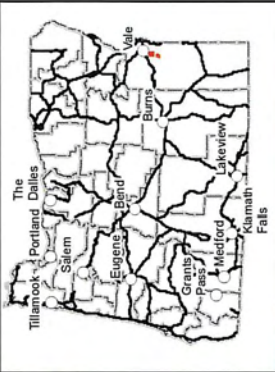
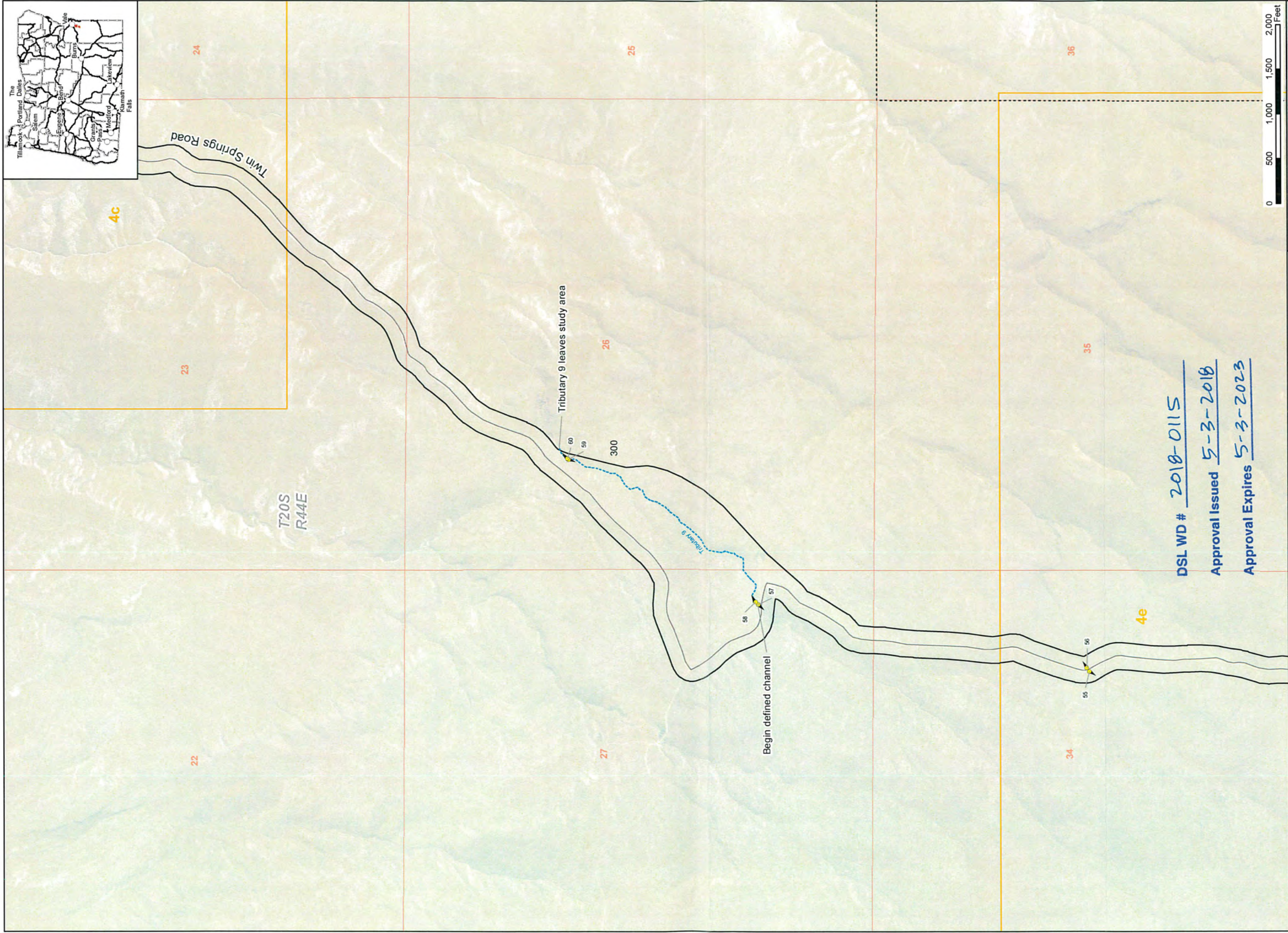


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GRASSY MOUNTAIN MINE PROJECT
Wetland Map Book

Figure 4c

Date:	01/23/2018	Version:	008
Drawn by:	JDB	Project No.:	3678
Revised:	01/23/2018	Map 1 meter resolution	
File Name:	N:\Projects\3678\GIS\GrassyMtn_Bk_WD_Fig4c_Result12.mxd		

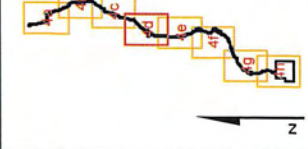
EM STRATEGIES



DSL WD # 2018-0115
Approval Issued 5-3-2018
Approval Expires 5-3-2023

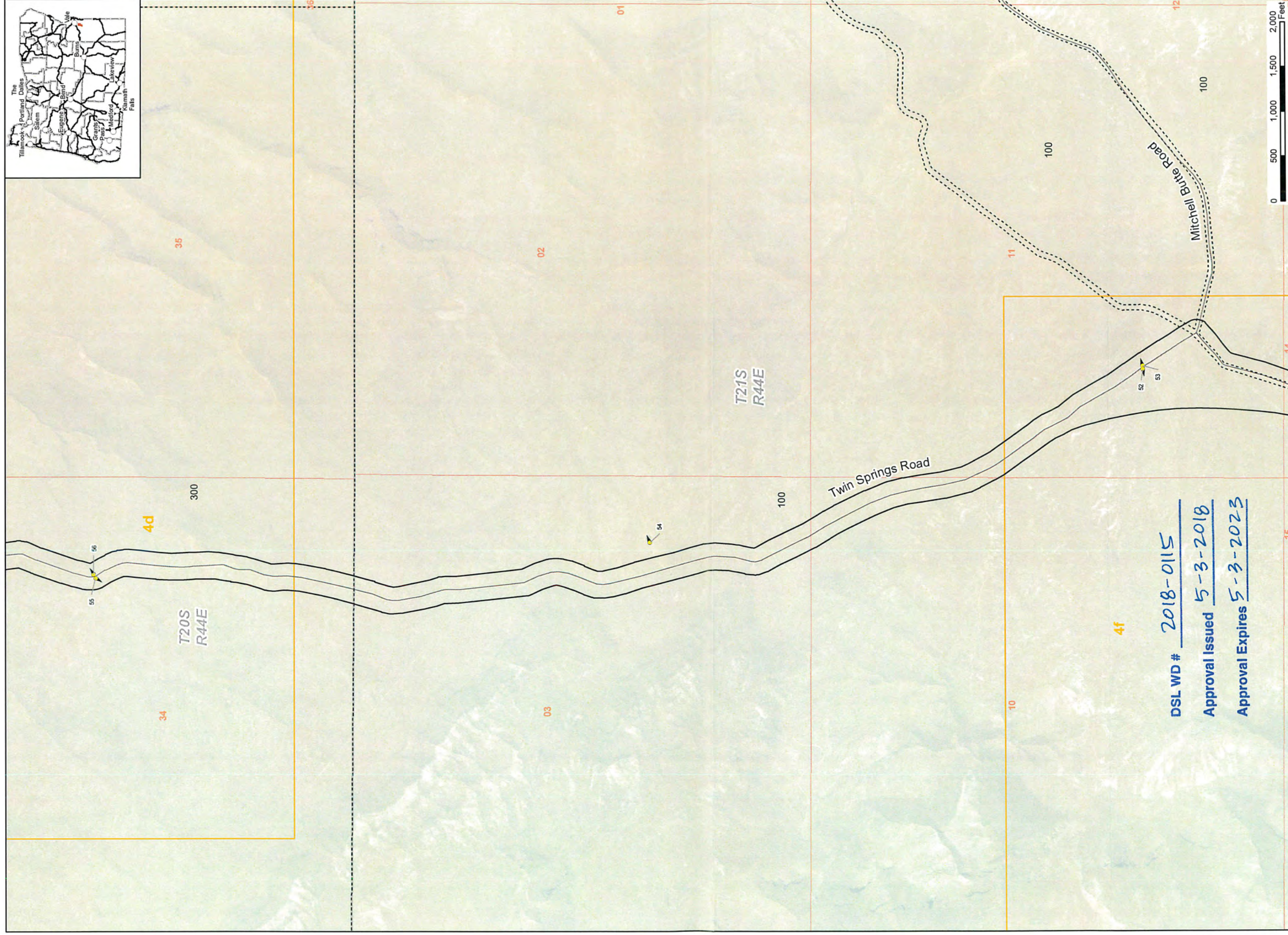
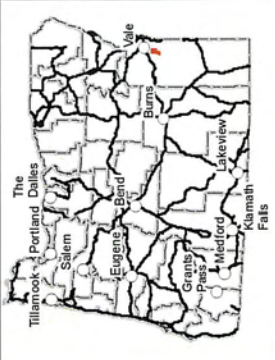
- Explanation**
- Wetland Study Area
 - Map Extent
 - Existing Road
 - Photo Point
 - Ephemeral Drainage

Sources:
 PLSS: BLM
 Roads: US Census Bureau
 Tax Lots: Malheur County, OR Dept of Revenue
 Basemap: NRCS/USDA Digital Gateway
Accuracy (EMIS):
 Wetlands survey fieldwork completed May 7, 2013. Locations captured using sub-meter resource grade GPS units with 93.8% of positions captured having a horizontal accuracy of less than 1/2 meter after post-processing. Survey field work completed April 7, 2015. Locations captured using sub-meter resource grade equipment with 84.9% of positions captured having a horizontal accuracy of less than 1/2 meter after post-processing.
 Wetlands survey fieldwork conducted May 18-21, 2017. Locations captured using a sub-meter resource grade GPS unit with 60.3% of positions captured having a horizontal accuracy of less than 1/2 meter and 91.5% of positions captured having a horizontal accuracy of less than 1 meter after post-processing.



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GRASSY MOUNTAIN MINE PROJECT
Wetland Map Book
 Figure 4d
 EM STRATEGIES
 Date: 01/23/2018
 Project No.: 3678
 File: NCR7836786_GrassyMtn_BL_WD_Fig04_Result121.mxd

Projection: UTM Zone 11 North, NAD83, meters

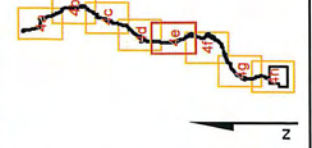


DSL WD # 2018-0115
Approval Issued 5-3-2018
Approval Expires 5-3-2023

- Explanation**
- Wetland Study Area
 - Tax Lot
 - Map Extent
 - Existing Road
 - ▲ Photo Point

Sources:
 PLSS: BLM
 Roads: US Census Bureau
 Tax Lots: Malheur County, OR Dept of Revenue
 Basemap: NRCS/USDA Digital Gateway

Accuracy (EIMS):
 Wetlands survey fieldwork completed May 7, 2013. Locations captured using sub-meter resource grade GPS units with 93.8% of positions captured having a horizontal accuracy of less than 1/2 meter after post-processing. Survey field work completed April 7, 2015. Locations captured using sub-meter resource grade equipment with 84.9% of positions captured having a horizontal accuracy of less than 1/2 meter after post-processing.
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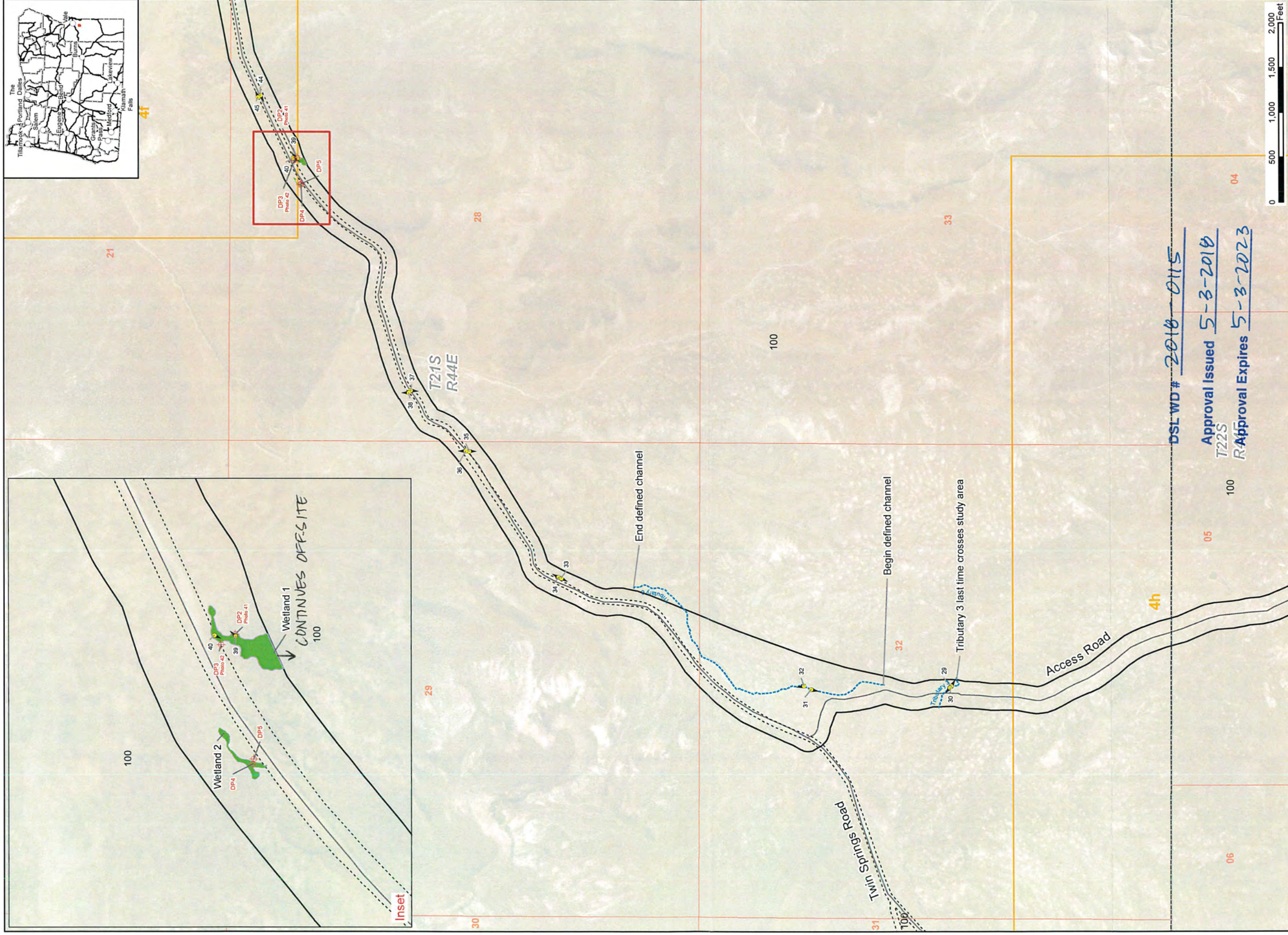
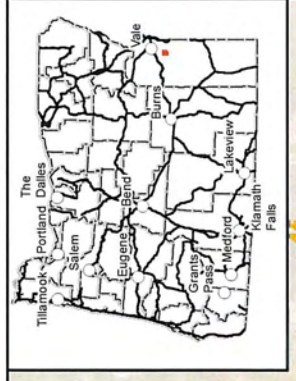


CALICO RESOURCES USA CORP.
GRASSY MOUNTAIN MINE PROJECT
Wetland Map Book

Figure 4e

DATE: 01/22/2018	DRAWN BY: JDB
PROJECT: Grassy Mountain Mine	PROJECT NO.: 3678
Scale: Map 2018 NAD 11 North, 1 meter resolution	
File: N:\2018\3678\GrassyMtn_BL_WD_Fig4_Results12h.mxd	

Projection: UTM Zone 11 North, NAD83, meters



Explanation

- Wetland Study Area
- Wetland
- Tax Lot
- Ephemeral Drainage
- Map Extent
- Existing Road
- Photo Point
- Soil Pit

Sources:
 PLSS: BLM
 Roads: US Census Bureau
 Tax Lots: Malheur County, OR Dept of Revenue
 Basemap: NRC/S/USDA Digital Gateway

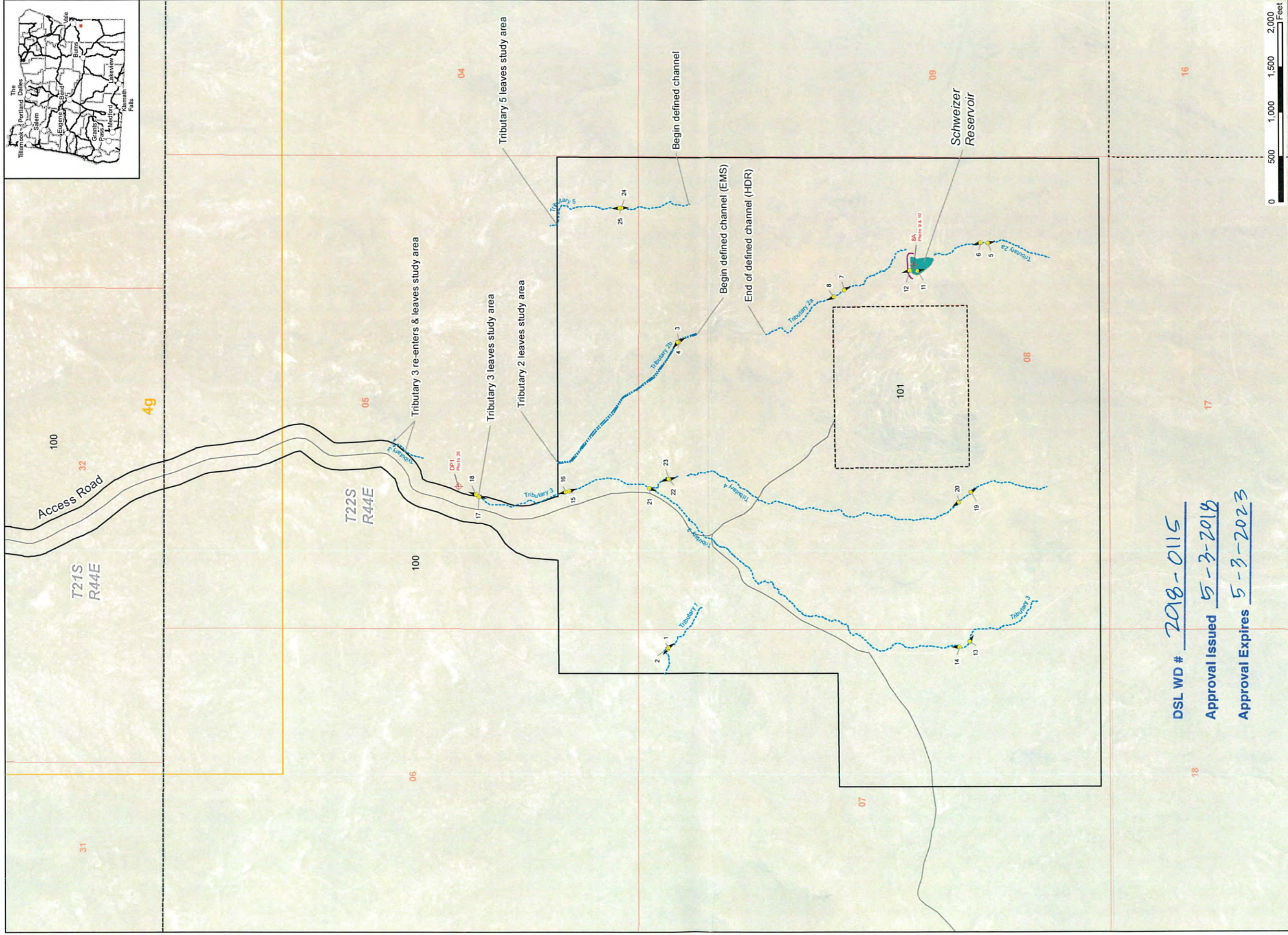
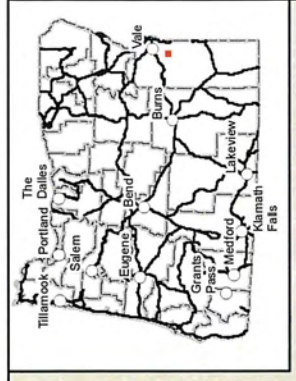
Accuracy (EMS):
 Wetlands survey fieldwork completed May 7, 2013. Locations captured using sub-meter resource grade GPS units with 93.8% of positions captured having a horizontal accuracy of less than 1/2 meter after post-processing. Survey field work completed April 7, 2015. Locations captured using sub-meter resource grade equipment with 84.9% of positions captured having a horizontal accuracy of less than 1/2 meter after post-processing.
 Wetlands survey fieldwork conducted May 18-21, 2017. Locations captured using a sub-meter resource grade GPS unit with 60.3% of positions captured having a horizontal accuracy of less than 1/2 meter and 91.5% of positions captured having a horizontal accuracy of less than 1 meter after post-processing.

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 GRASSY MOUNTAIN MINE PROJECT
 Wetland Map Book

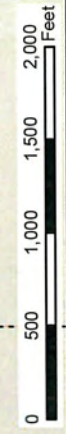
Figure 4g

DATE: 01/23/2018
 Drawn By: JOB
 Project No.: 3678
 Revised: Bcse Map 2016 NAD 1 meter resolution
 File Name: 3678G_GrassyMtn_BL_WD_Fig4_Results12x.mxd

Projection: UTM Zone 11 North, NAD83, meters



DSL WD # 2018-0115
 Approval Issued 5-3-2018
 Approval Expires 5-3-2023



Explanation Wetland Study Area Tax Lot Map Extent Existing Road Photo Pit Soil Pit		Schweizer Reservoir Ephemeral Drainage Intermittent Drainage Embankment	
Sources: PLSS: BLM Roads: US Census Bureau Tax Lots: Malheur County, OR Dept of Revenue Basemap: NRCRS/USDA Digital Gateway Accuracy (EMS): Wetlands survey fieldwork completed May 7, 2013. Locations captured using sub-meter resource grade GPS units with 93.8% of positions captured having a horizontal accuracy of less than 1/2 meter after post-processing. Survey field work completed April 7, 2015. Locations captured using sub-meter resource grade equipment with 84.9% of positions captured having a horizontal accuracy of less than 1/2 meter after post-processing. Wetlands survey fieldwork conducted May 18-21, 2017. Locations captured using a sub-meter resource grade GPS unit with 60.3% of positions captured having a horizontal accuracy of less than 1/2 meter and 91.5% of positions captured having a horizontal accuracy of less than 1 meter after post-processing.			
Calico Resources USA Corp. GRASSY MOUNTAIN MINE PROJECT Wetland Map Book			
Date: 01/23/2018 Drawn By: JDB Project No.: 3678 Base Map: 2018 MAP 1 meter resolution File Name: 3678G_GrassyMtn_BL_WD_Fig04_Results12a.mxd		Figure 4h 	

Projection: UTM Zone 11 North, NAD83, meters