

Inland Empire Brine Line On-Call Service Contracts

Carlos Quintero, Operations Manager
PA24 Committee | June 2, 2020
Item 5.A.

Recommendation

- That Project Agreement 24 Committee authorize the General Manager to issue a General Services Agreement and Task Order DOW 240-02 to Downstream Services in the amount of \$210,476.

Inland Empire Brine Line

— Brine Line Laterals

Brine Line REACH

— IV

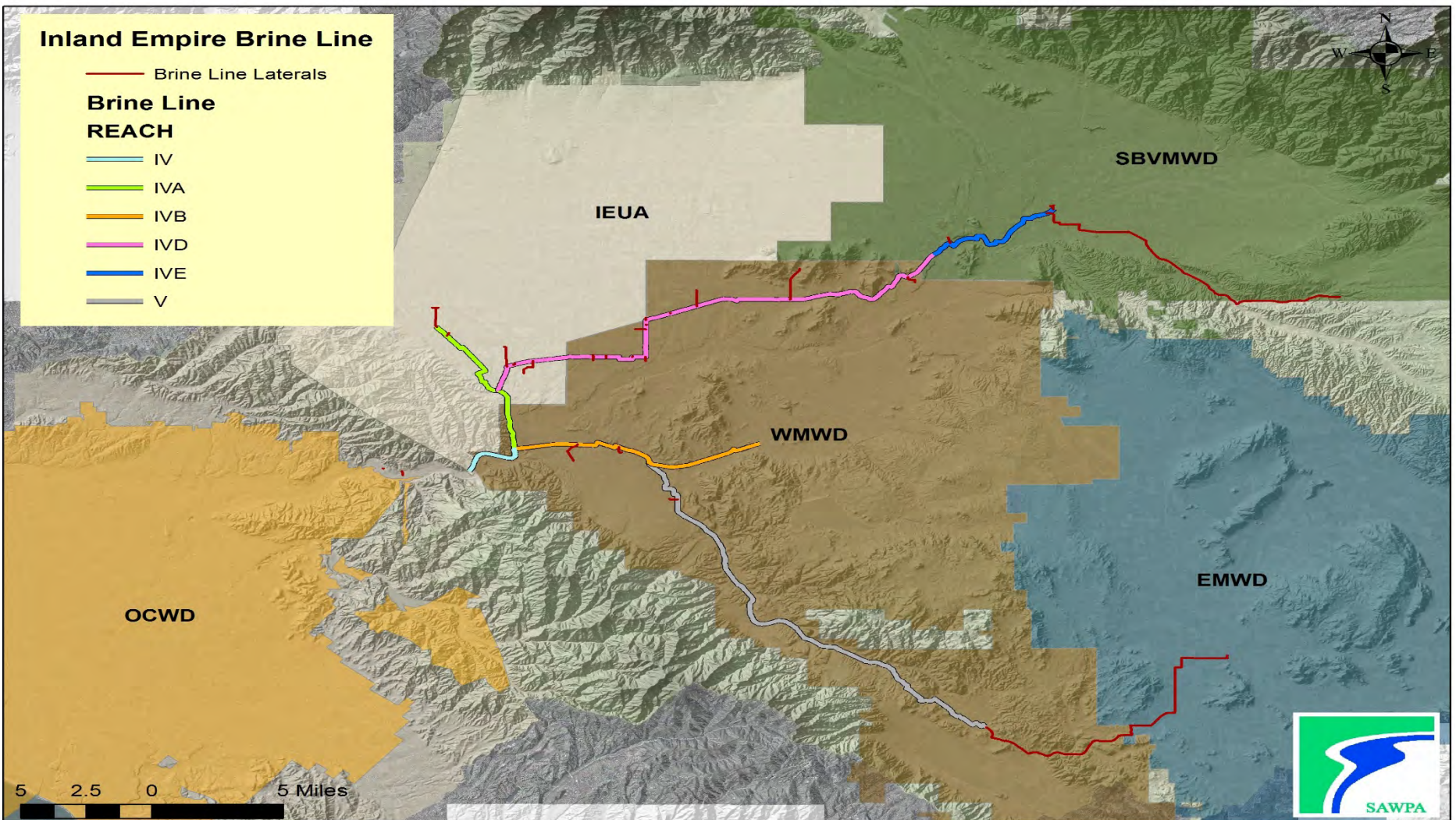
— IVA

— IVB

— IVD

— IVE

— V



SBVMWD

IEUA

WMWD

EMWD

OCWD

5 2.5 0 5 Miles



On-Call Service Contracts

Approved by SAWPA Commission on 5/1/18

On- Call Service Contract	Service Provider	Contract Amount	Remaining Amount (As of 4/30/20)
CCTV	Houston & Harris	\$96,448	\$91,913.18
Debris Hauling & Disposal	HazMat Trans	\$34,800	\$19,320.00
Pipeline Cleaning	Innerline Engineering	\$151,020	\$79,139.25
Line Draining & Emergency Clean-up Services	HazMat Trans	\$96,665	\$93,950.99
Flow Meter Calibration	Douglas Environmental	\$25,960	\$0
Land Surveying	Calvada Surveying	\$28,970	\$27,470
Sample Collection & Analysis	E.S. Babcock Laboratories	\$86,454	\$47,147
Sampling Support	WMWD	\$75,000	\$23,339.90
Brine Line Operations Support	WMWD	\$25,000	\$15,072.90
Brine Line Operations Support	IEUA	\$10,000	\$10,000

Pipeline Cleaning

- Innerline stopped providing Line Cleaning Services
- RFP issued in April 2020
- Proposals Received on May 6, 2020:

Service Provider	Line Cleaning	Traffic Control	Total
Stone Bear	\$167,500	\$20,600	\$188,100
Downstream Services	\$193,780	\$16,696	\$210,476
Houston and Harris	\$205,997	\$50,440	\$256,437

Pipeline Cleaning Scope of Work

- All services are on-call and are paid on an hourly basis depending on work performed
- 340 hours of line cleaning equipment, operated
- 340 hours of water truck services
- 80 hours of CCTV in support of line cleaning
- Traffic control support

Proposal Review

Service Provider	Cost (60%)	Qualifications (40%)	TOTAL
Stone Bear	60	20	80
Downstream Services	54	30	84
Houston & Harris	44	35	79

Other Brine Line Service Contracts

Service Provider	Description	Amount
E.S. Babcock Laboratories	Water Quality Sampling/Analysis	\$85,059
WMWD	Water Quality Sampling Support	\$10,000
WMWD	Operations Support	\$25,000
IEUA	Operation Support	\$10,000

Annual Work Orders

Other Brine Line Service Contracts

Service Provider	Description	Amount
Houston and Harris	Line Inspection (CCTV)	\$91,913.18
Douglas Environmental	Flow Meter Calibration/Repair	\$25,960.00
HazMat Trans	Debris Hauling & Disposal	\$19,320.00
HazMat Trans	Line Draining & Emergency Response	\$93,950.99
Calvada Surveying	Land Surveying	\$27,470.00

Task Order Renewals through June 30, 2021

Recommendation

- That Project Agreement 24 Committee authorize the General Manager to issue a General Services Agreement and Task Order DOW 240-02 to Downstream Services in the amount of \$210,476.



Questions???

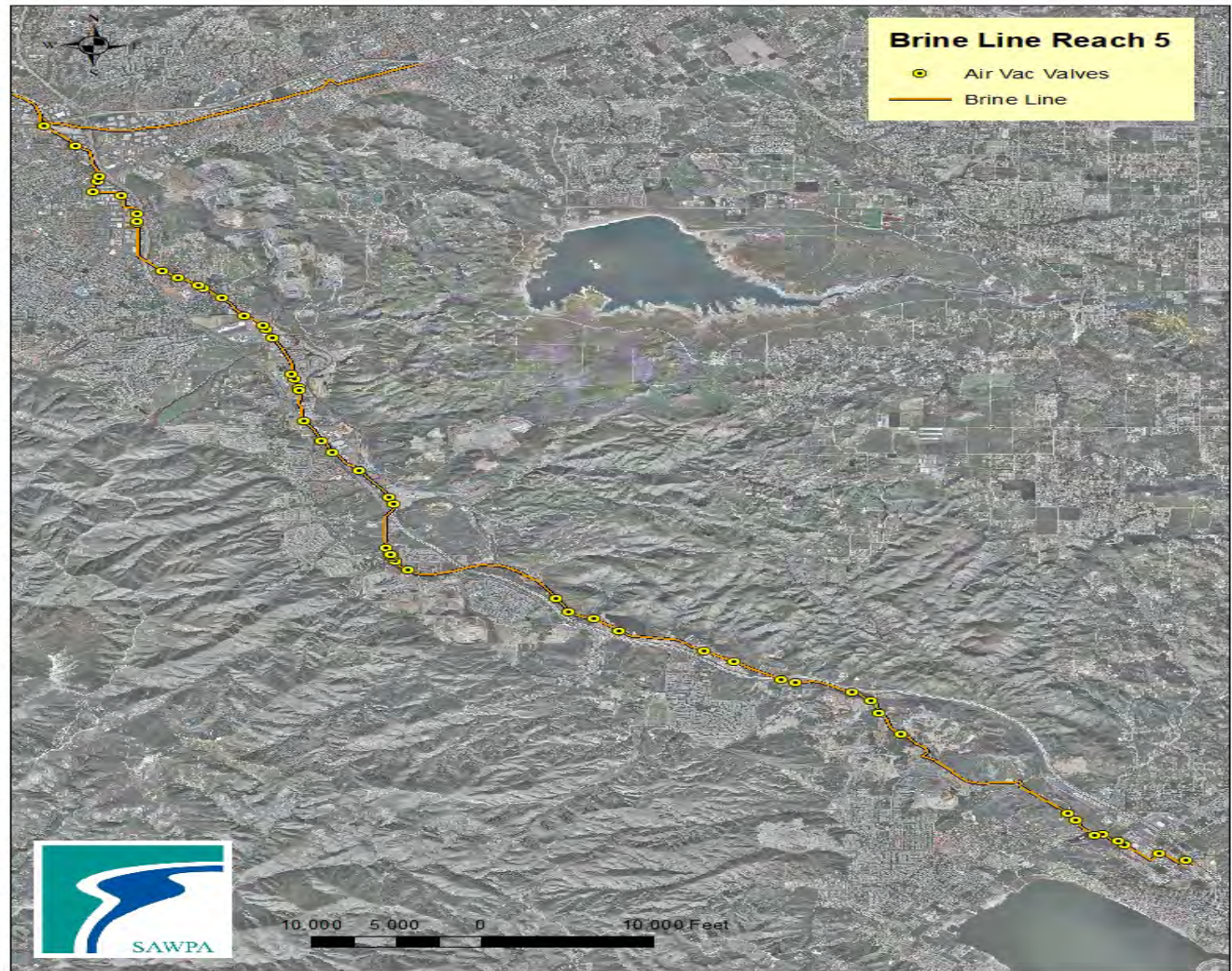
Inland Empire Brine Line Air Release and Vacuum Valve Program

Carlos Quintero, Operations Manager
PA24 Committee | June 2, 2020
Item 5.B.

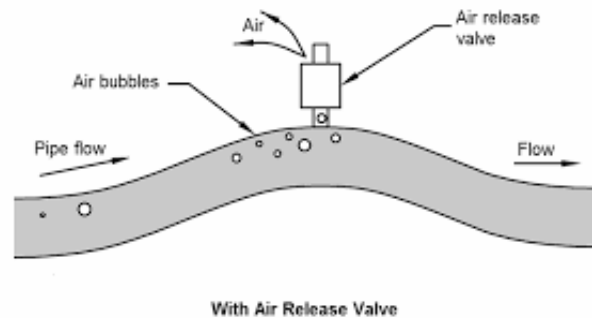
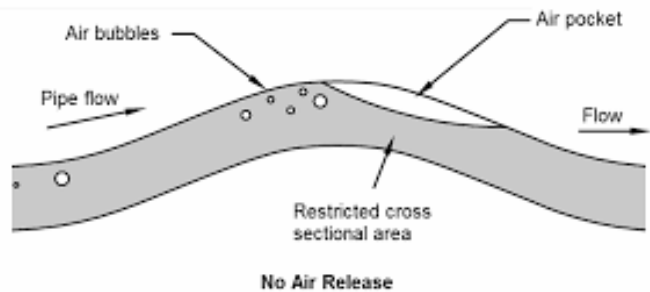
Recommendation

- Receive and file

Brine Line Reach 5 Air Release and Vacuum Valves

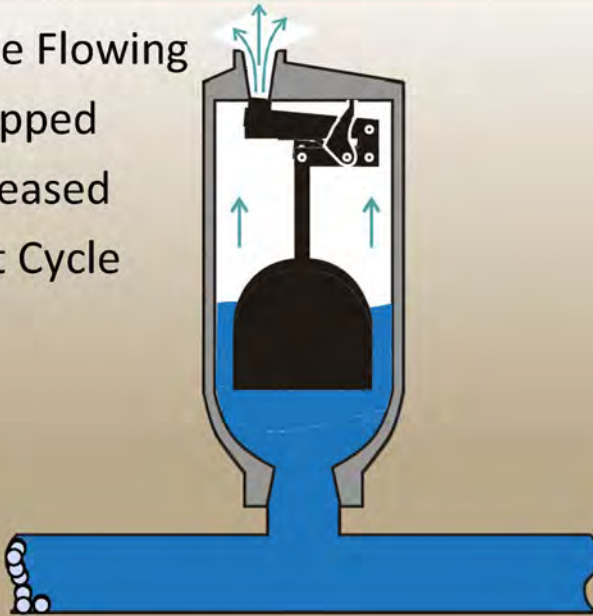


Purpose



Air Release Valve Operation

- Pipeline Flowing
- Air Trapped
- Air Released
- Repeat Cycle

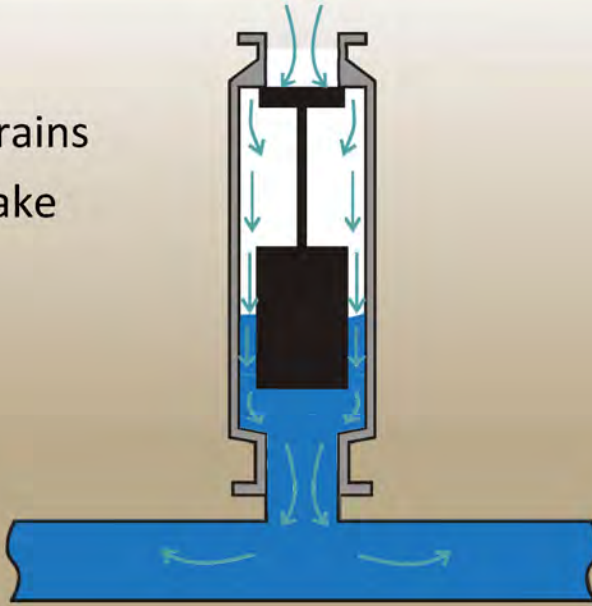


Source: Ohio Water Environment Association

<http://www.ohiowea.org/docs/n15%20-%20Air%20Valve%20Basic%20Training%202005-03-2010a.pdf>

Air / Vacuum Valve Operation

- Pipe Drains
- Air Intake



Source: Ohio Water Environment Association

<http://www.ohioewa.org/docs/n15%20-%20Air%20Valve%20Basic%20Training%2005-03-2010a.pdf>

Above Ground AV With Spill Containment



Below Ground AV



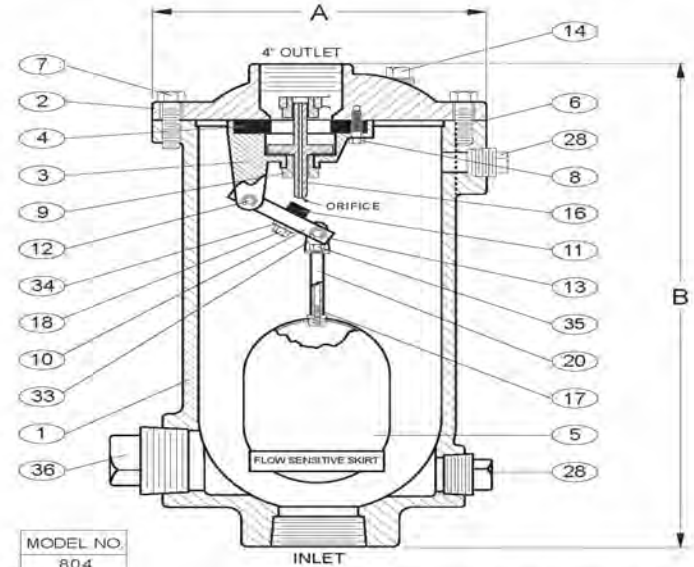
Air Vac Corrosion Issues



- Prevents proper functioning
- Prevents proper sealing
- Can lead to SSOs

09/18/2013 15:19

Valmatic VM-804



MODEL NO.	
	804
A	11"
B	23 1/2"
ORIFICE SIZE	1 1/8"
INLET	4" NPT
OUTLET	4" NPT

WORKING PRESSURE
150 P.S.I. COLD WORKING PRESSURE-C.W.P.
TEST PRESSURE
1.5 TIMES COLD WORKING PRESSURE-C.W.P.

- | | | |
|--------------------|--------------------|--------------------------|
| 1. BODY | 9. BUSHING | 18. LOCK NUT |
| 2. COVER | 10. FLOAT ARM | 20. GUIDE SHAFT |
| 3. BAFFLE | 11. ORIFICE BUTTON | 28. PIPE PLUG |
| 4. SEAT | 12. PIVOT PIN | 33. CLEVIS |
| 5. FLOAT | 13. RETAINING RING | 34. LOCK WASHER |
| 6. GASKET | 14. PIPE PLUG | 35. GUIDE SHAFT RETAINER |
| 7. COVER BOLT | 16. PLUG | 36. PIPE PLUG |
| 8. RETAINING SCREW | 17. FLOAT RETAINER | |

SEE DRAWING NO. VM-801A-M FOR STANDARD MATERIALS OF CONSTRUCTION.

Revised 12-19-07

WASTEWATER COMBINATION AIR VALVE

DATE 9-8-86

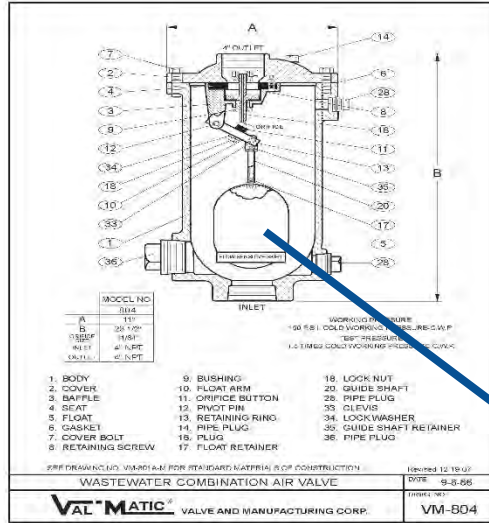
VALMATIC® VALVE AND MANUFACTURING CORP.

DRWG. NO.

VM-804



05/05/2020 09:21



05/05/2020 09:23



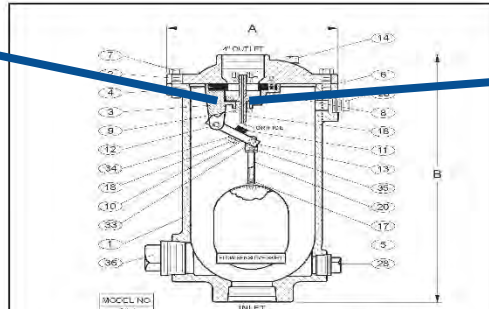
05/05/2020 09:23



05/05/2020 09:23



05/05/2020 09:30



MOCCL NO.	
A	15"
B	36 7/8"
INLET	4" NPT
OUTLET	4" NPT

- | | | |
|--------------------|--------------------|--------------------------|
| 1. BODY | 9. BUSHING | 18. LOCK NUT |
| 2. COVER | 10. FLOAT ARM | 20. GUIDE SHAFT |
| 3. DAPPLE | 11. OFFICE BUTTON | 22. PIPE PLUG |
| 4. SEAT | 12. PIVOT PIN | 30. CLEVIS |
| 5. FLOAT | 13. RETAINING RING | 34. LOCKWASHER |
| 6. GASKET | 14. PIPE PLUG | 35. GUIDE SHAFT RETAINER |
| 7. COVER BOLT | 15. PLUG | 36. PIPE PLUG |
| 8. RETAINING SCREW | 17. FLOAT RETAINER | |

2"WF DRAWING FOR WASTEWATER MATERIAL, 50% CONSTRUCTION
 WASTEWATER COMBINATION AIR VALVE
VAL-MATIC VALVE AND MANUFACTURING CORP.
 VM-504



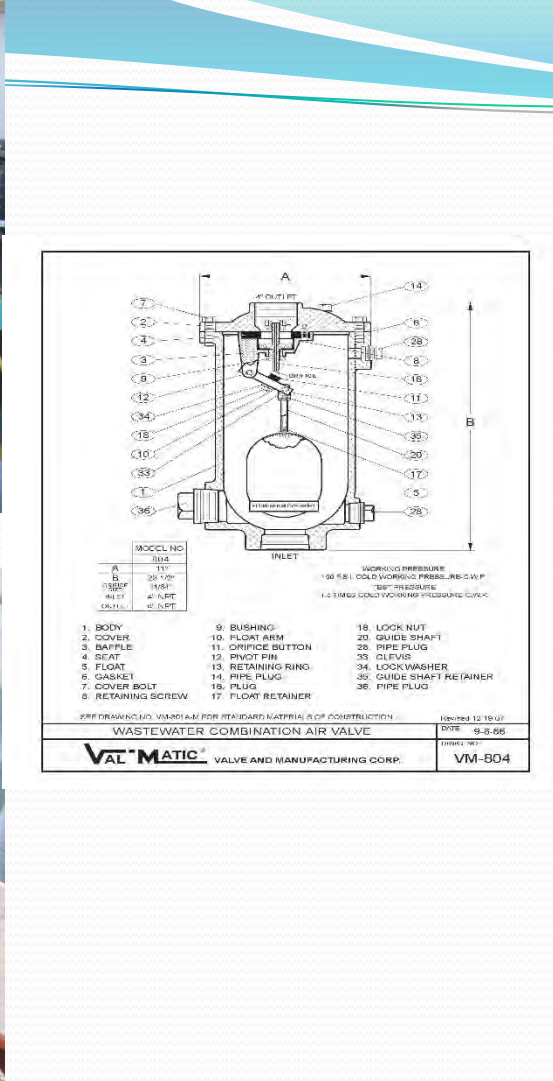
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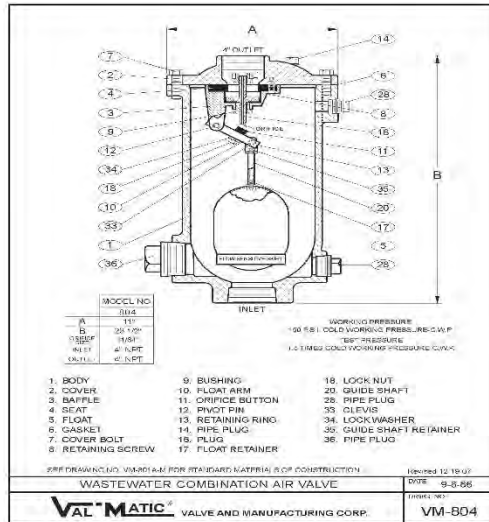


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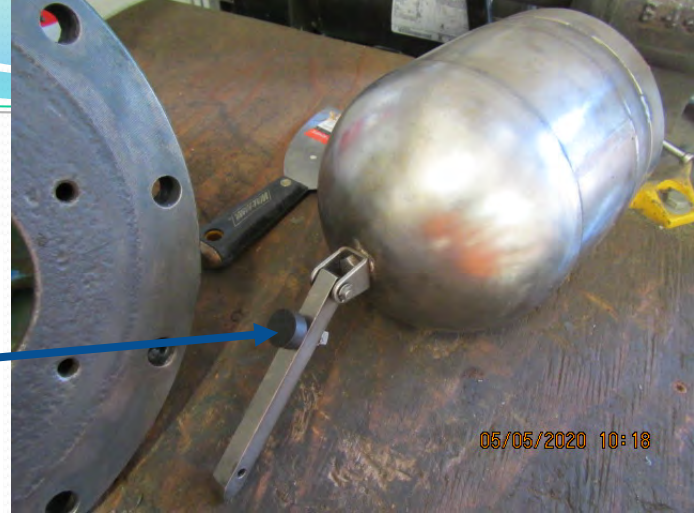
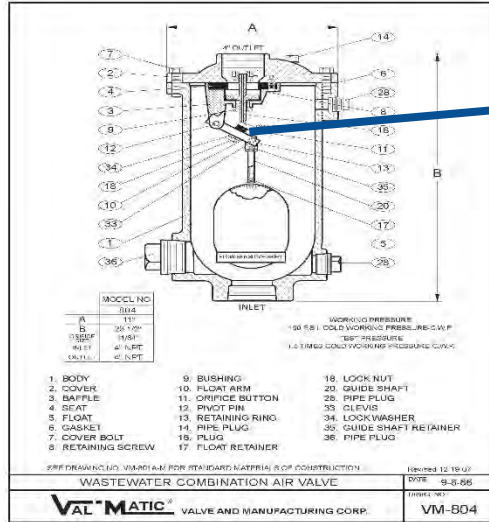
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05/05/2020 10:14



05/05/2020 10:18



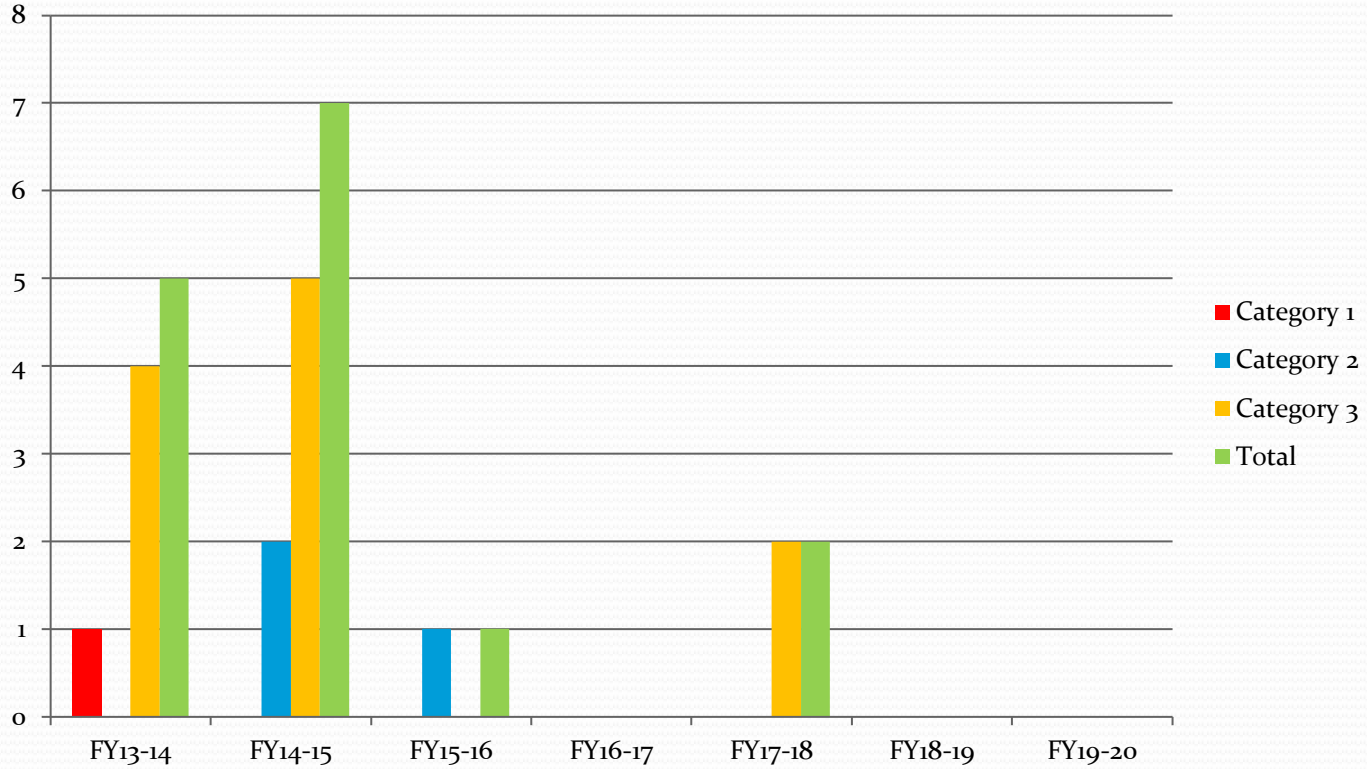
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SSO by Category



Recommendation

- Receive and file



Questions???

Alcoa Dike – Lower Reach IVB and CRC Lateral Protection Project

David Ruhl, Engineering Manager

Project Agreement 24 Committee | June 2, 2020

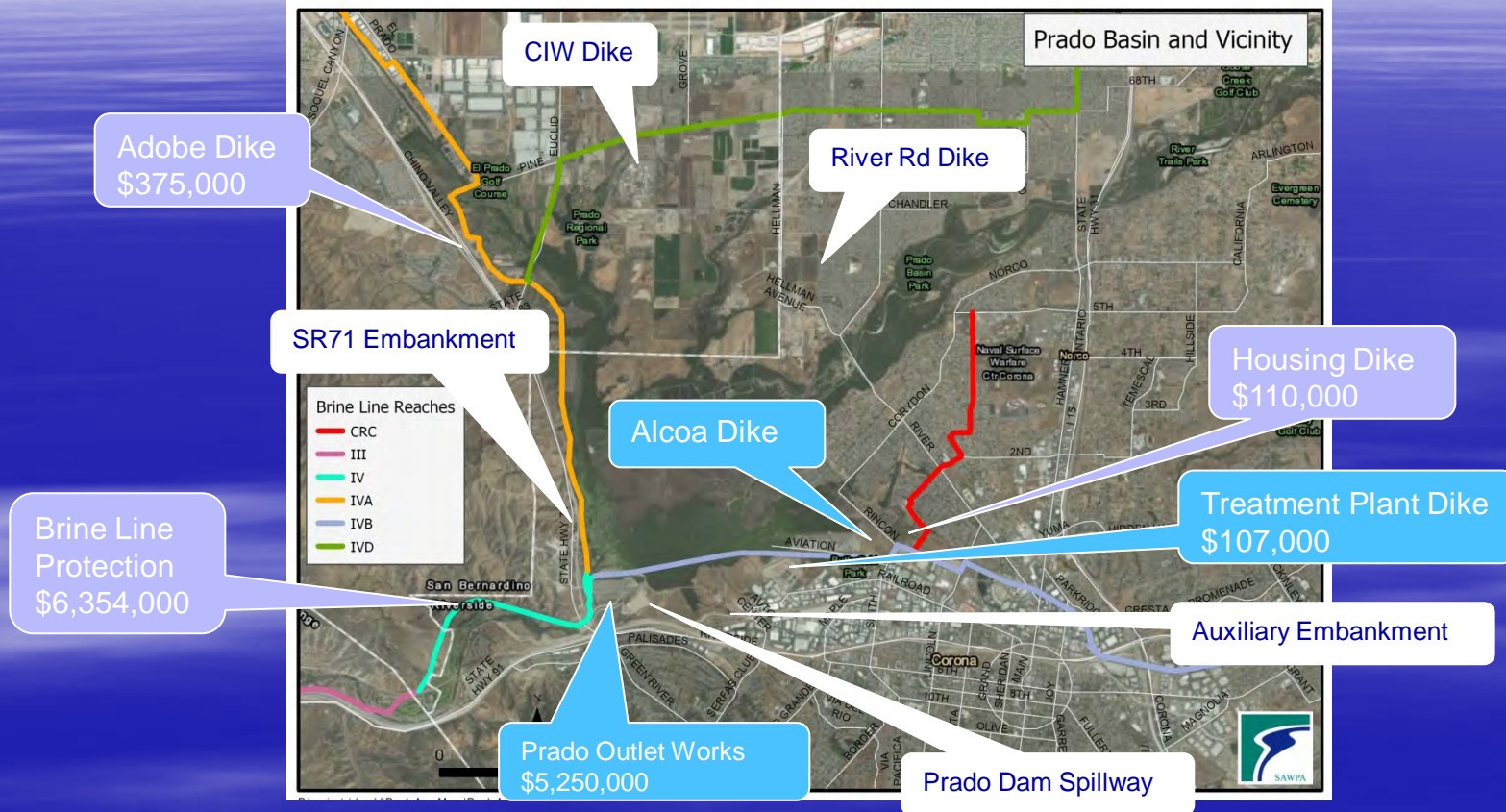
Item No. 5.C.

Lower Reach IVB and CRC Lateral Protection Project

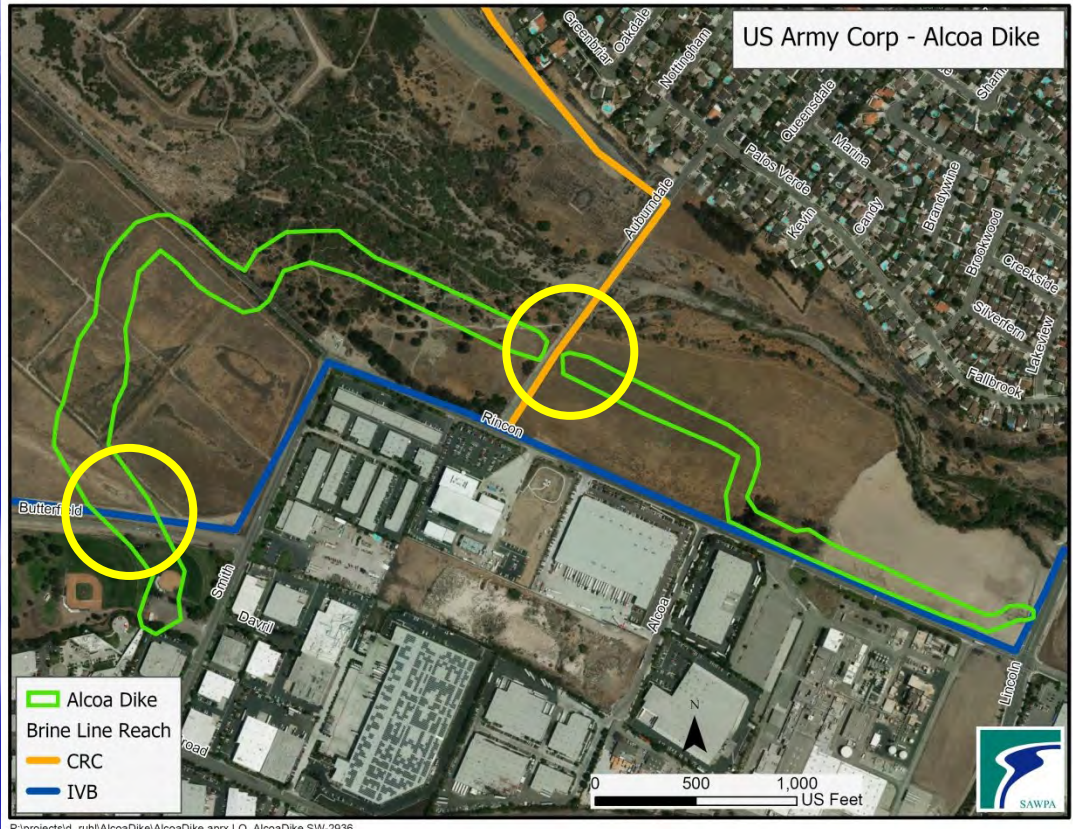
■ Recommendation

- Direct the GM to file a Notice of Exemption for the Lower Reach IV-B and CRC Lateral Utility Protection Project with the Riverside County Clerk's Office; and
- Direct the GM to issue a Notice Inviting Bids, upon completion of the Final Plans and Specifications, for the Construction of the Lower Reach IV-B and CRC Lateral Utility Project.

Prado Basin Perimeter Dikes



Alcoa Dike - Reach IVB/CRC Lateral



F:\projects\d_ruhl\AlcoaDike\AlcoaDike.aprx LO AlcoaDike SW-2935

- Protect Reach 4B/CRC Lateral Due to Impacts of Alcoa Dike
- Hired Stantec to prepare plans and specifications
- Remove and Replace about 480 feet of Reach IVB
- Remove and Replace about 100 feet of the CRC Lateral

Construction Cost Estimate and Notice of Exemption

- Estimate of Construction Cost \$889,250
 - Lower Reach IV-B \$673,650
 - CRC Lateral \$215,600
- Notice of Exemption
 - Project located within a disturbed and impacted construction area due to Alcoa Dike
 - All work along same Brine Line alignment

Critical Activities

- CEQA Notice of Exemption June 2, 2020
- Notice Inviting Bids Approval June 2, 2020
- Final Plans and Specifications June 15, 2020
- Issue Notice Inviting Bids June 16, 2020
- Award Construction Contract August 4, 2020
- Construction September – December 2020
- Corps Phase 2 Award January 2021

Lower Reach IVB and CRC Lateral Protection Project

■ Recommendation

- Direct the GM to file a Notice of Exemption for the Lower Reach IV-B and CRC Lateral Utility Protection Project with the Riverside County Clerk's Office; and
- Direct the GM to issue a Notice Inviting Bids, upon completion of the Final Plans and Specifications, for the Construction of the Lower Reach IV-B and CRC Lateral Utility Project.

QUESTIONS?

Euclid Avenue (Reach IVA and Reach IVD) Maintenance Access Structure (MAS) Rehabilitation Project

David Ruhl, Engineering Manager

Project Agreement 24 Committee | June 2, 2020

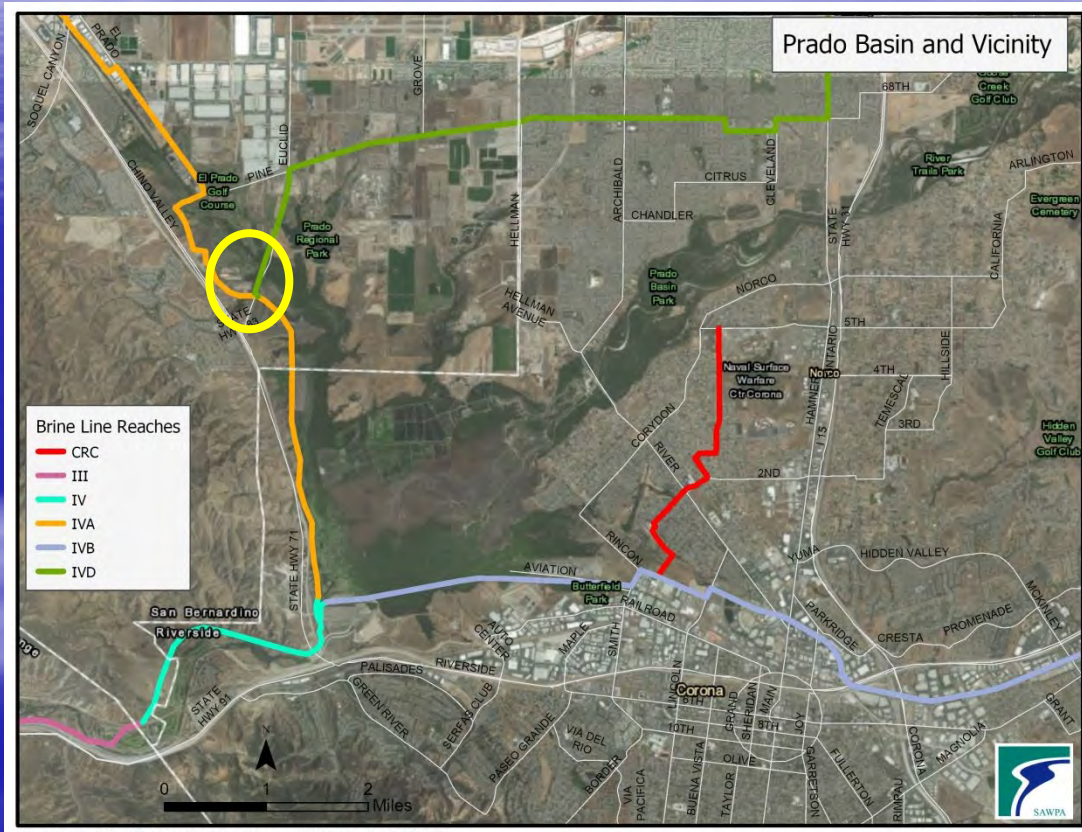
Item No. 5.D.

Euclid Avenue (Reach IVA and Reach IVD) MAS Rehabilitation Project

■ Recommendation

- Direct the GM to file a Notice of Exemption for the Euclid Avenue (Reach IV-A and Reach IVD) MAS Rehabilitation Project with the San Bernardino County Clerk's Office; and
- Direct the GM to issue a Notice Inviting Bids, upon completion of the Final Plans and Specifications, for the Construction of the Euclid Avenue (Reach IV-A and Reach IVD) MAS Rehabilitation Project.

Project Location and Description



- Seal 5 MAS on Reach IVD to withstand pressurization
- Remove 1 MAS on Reach IVA due to concrete deterioration

IVA – MAS 180



- Condition assessment
 - Severe corrosion
 - 4 – 5 inches of concrete lost or severely degraded
 - Reinforcement is exposed and severely corroded
- Remove MAS and replace with new fabricated pipe fitting

Construction Cost Estimate and Notice of Exemption

- Estimate of Construction Cost \$510,000
 - Reach IVD \$370,000
 - Reach IVA – MAS 180 \$140,000
- Notice of Exemption
 - Project located along shoulder of Euclid Avenue and within a disturbed and impacted area on Corps property
 - All work along existing Brine Line alignment at or around existing MAS

Critical Activities

- CEQA Notice of Exemption June 2, 2020
- Notice Inviting Bids Approval June 2, 2020
- Final Plans and Specifications June 5, 2020
- Issue Notice Inviting Bids June 16, 2020
- Award Construction Contract August 4, 2020
- Construction September – November 2020

Euclid Avenue (Reach IVA and Reach IVD) MAS Rehabilitation Project

■ Recommendation

- Direct the GM to file a Notice of Exemption for the Euclid Avenue (Reach IV-A and Reach IVD) MAS Rehabilitation Project with the San Bernardino County Clerk's Office; and
- Direct the GM to issue a Notice Inviting Bids, upon completion of the Final Plans and Specifications, for the Construction of the Euclid Avenue (Reach IV-A and Reach IVD) MAS Rehabilitation Project.

QUESTIONS?

Santa Ana River Trail Impacts to Brine Line

Carlos Quintero, Operations Manager
PA24 Committee | June 2, 2020
Item 5.E.

Recommendation

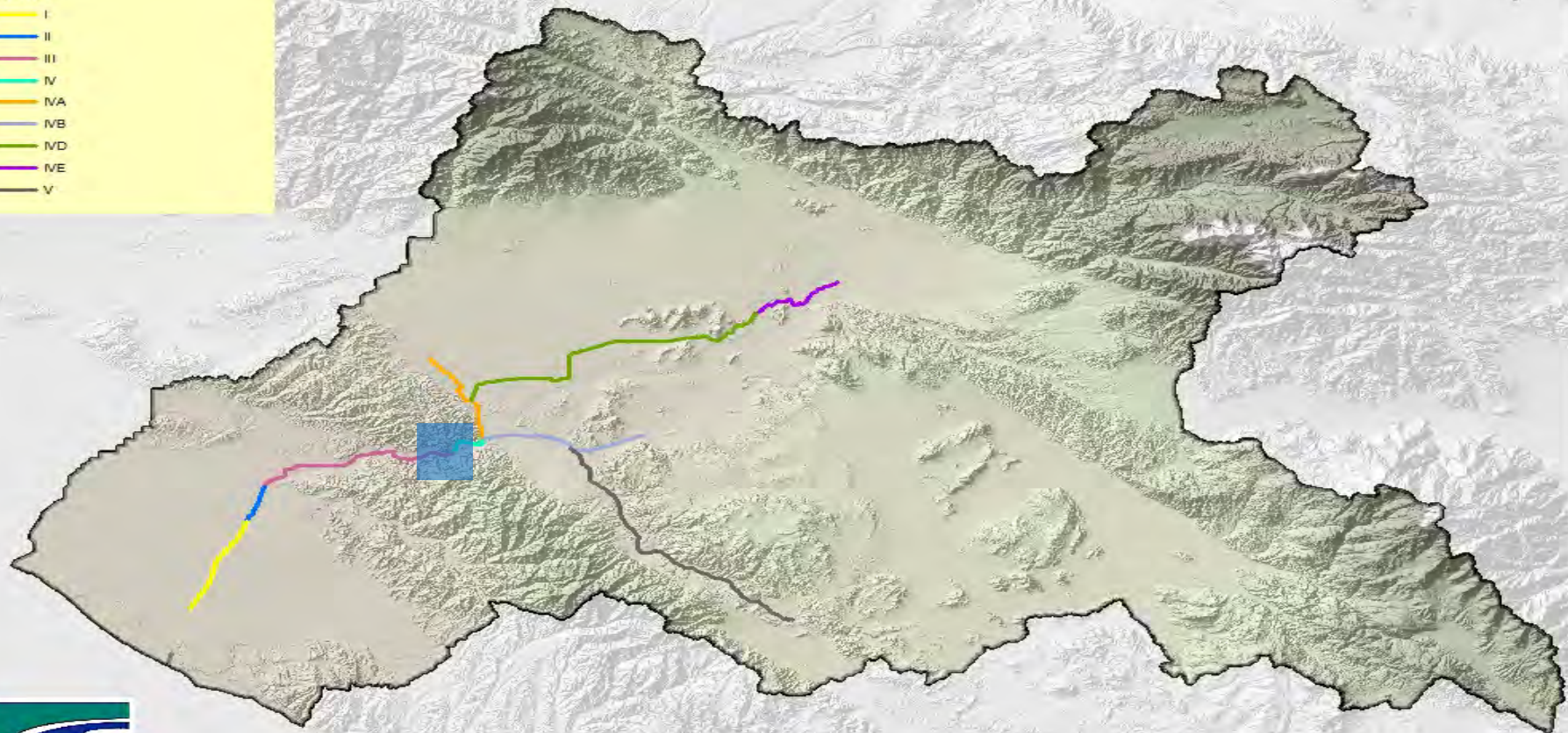
- Receive and file

Inland Empire Brine Line

Brine Line

REACH

- I
- II
- III
- IV
- VA
- VB
- VD
- VE
- V



Inland Empire Brine Line Santa Ana River Trail

- Brine Line
- Brine Line MAS

Aliso Canyon

Riverside County

SB County

SART Proposed on SAWPA Property

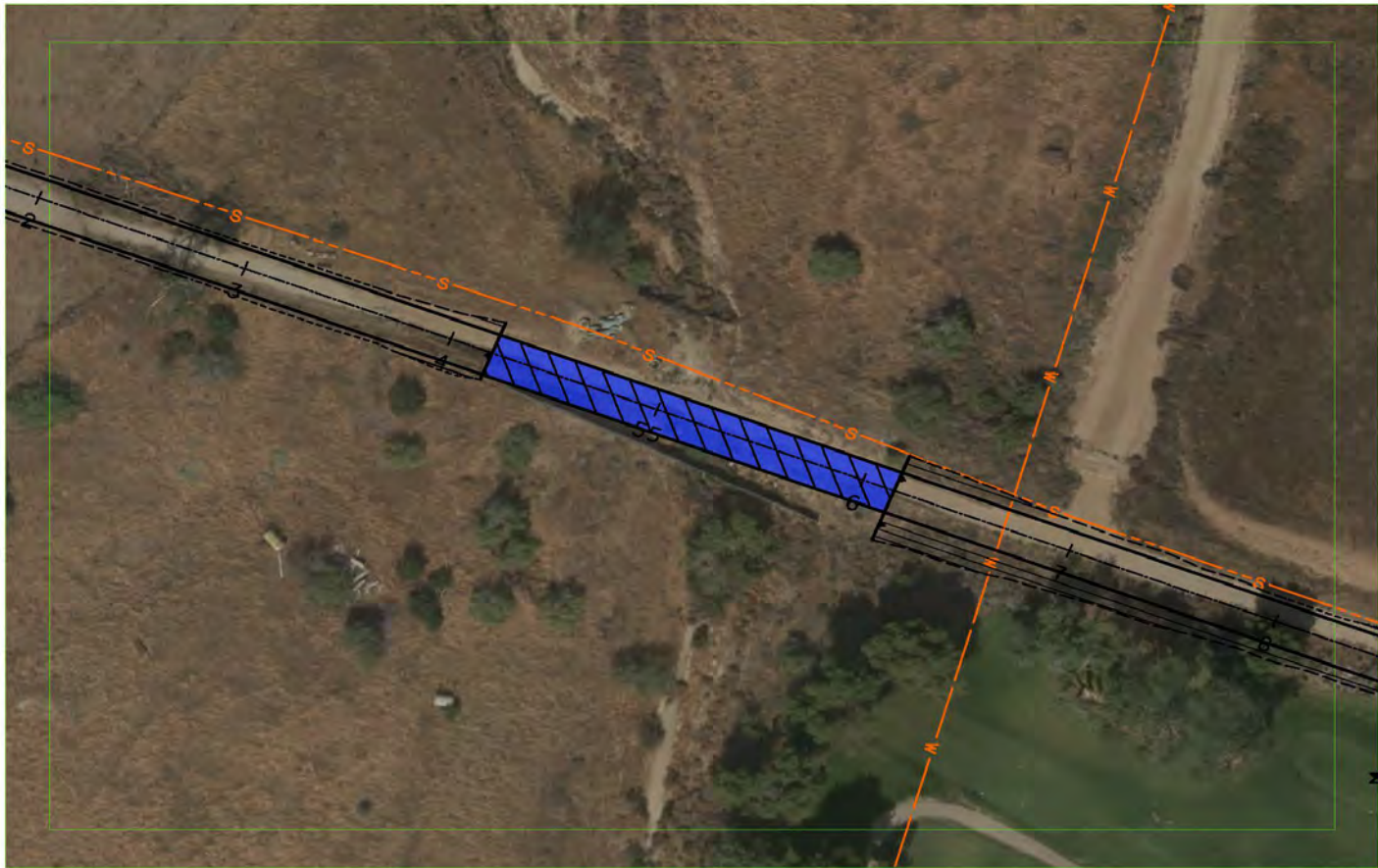
BNSF Crossing [CLOSED]

Orange County





01/23/2017 12:31



Michael Baker
INTERNATIONAL
5 Hutton Centre Dr., Suite 500
Santa Ana, CA 92707
Phone: (949) 471-3505
MBAKERINTL.COM

ALISO CANYON BRIDGE - PRELIMINARY LAYOUT
RIVERSIDE COUNTY PARKS

SCALE: 1"=50'
SHEET:
DATE: 3/31/2020

Recommendation

- Receive and file



Questions???