



AGENDA
ADJOURNED MEETING OF THE BOARD OF DIRECTORS
TUESDAY, FEBRUARY 18, 2020 - 9:00 AM
1391 Engineer Street, Vista, CA 92081
Phone: (760) 597-3100

In compliance with the Americans with Disabilities Act, if special assistance is needed to participate in the Board meeting, please contact the Board Secretary during regular business hours at (760) 597-3128. Notification received 48 hours before the meeting will enable the District to make reasonable accommodations.

1. CALL TO ORDER

2. ROLL CALL – DETERMINATION OF QUORUM

3. PLEDGE OF ALLEGIANCE

4. CONSIDER APPROVAL OF AGENDA

In the case of an emergency, items may be added to the Agenda by a majority vote of the Board of Directors. An emergency is defined as a work stoppage, a crippling disaster, or other activity that severely imperils public health, safety, or both. Also, items that arise after the posting of the Agenda may be added by a 2/3 vote of the Board. Items on the agenda may be taken out of sequential order as their priority is determined by the Board of Directors. The Board may take action on any item appearing on the agenda.

5. ORAL COMMUNICATIONS

Members of the public may address the Board on items not appearing on the posted agenda, which are within the subject matter jurisdiction of the Board. Speakers are asked to limit their comments to five (5) minutes; the total time allowable for all public comment on items not appearing on the agenda at any one meeting may be limited. Comments on items listed on the agenda will be taken before or during discussion of the agenda item. Members of the public desiring to address the Board are asked to complete a speaker's slip available on the table near the entrance of the Boardroom and present it to the Board Secretary prior to the meeting.

6. CONSENT CALENDAR

Any member of the Board, staff or public may request that items from the Consent Calendar be removed for discussion. Items so removed shall be acted upon separately immediately following approval of items remaining on the Consent Calendar.

A. Waterline project approval

Recommendation: Approve this waterline project and direct staff to file the Notice of Exemption for a proposed 56-unit detached condominium development, known as Arroyo Vista, consisting of approximately 8.39 gross acres owned by Meritage Homes of California, Inc., located at Sycamore Avenue and Watson Way, Vista (P17-0361; LN 2018-006; APNs 217-021-01, -02, -20, -29 and -30; DIV 5).

B. Acknowledgement of Easements

Recommendation: Acknowledge existing easements via Parcel Maps PC18-0411 North and PC18-0411 South over a commercial project consisting of approximately 0.82 acres owned by the City of Vista along South Santa Fe Avenue, Guajome Street and Mercantile Street, Vista (P18-0321; LN 2019-015; APNs 179-022-01, 179-022-02, 179-022-05, 179-022-06, 179-022-07, 179-022-23, 179-022-24, 179-022-25; DIV NO 4).

C. Minutes of the Warner Ranch Committee meeting on January 29, 2020

For information only.

D. Minutes of the Board of Directors meeting on February 4, 2020

Recommendation: Approval of draft minutes.

E. Ratification of check disbursements

Recommendation: Adopt a resolution ratifying checks numbered 63686 through 63792 in the amount of \$8,734,667.02 pursuant to the cash disbursement report detailing expenditures.

7. SAN PASQUAL UNDERGROUNDING PROJECT

Recommendation: Receive update on the status of the San Pasqual Undergrounding Project.

8. MAIN REPLACEMENT PROGRAM

Recommendation: Receive informational report on the District's Main Replacement Program.

9. OPPORTUNITY-BASED PIPELINE CONDITION ASSESSMENT PROGRAM

Recommendation: Receive informational report on the development of an opportunity-based pipeline condition assessment program.

10. MATTERS PERTAINING TO THE ACTIVITIES OF THE SAN DIEGO COUNTY WATER AUTHORITY

Informational report by staff and directors concerning the San Diego County Water Authority.

11. MEETINGS AND EVENTS

- A. Reports on meetings and events attended by Directors*
- B. Schedule of upcoming meetings and events*

12. ITEMS FOR FUTURE AGENDAS AND/OR PRESS RELEASES

This item is placed on the agenda to enable the Board to identify and schedule future items for discussion at upcoming Board meetings and/or identify press release opportunities.

13. COMMENTS BY DIRECTORS

This item is placed on the agenda to enable individual Board members to convey information to the Board and the public not requiring discussion or action.

14. COMMENTS BY GENERAL COUNSEL

Informational report by the General Counsel on items not requiring discussion or action.

15. COMMENTS BY GENERAL MANAGER

Informational report by the General Manager on items not requiring discussion or action.

16. ADJOURNMENT

- The agenda package and materials related to an agenda item submitted after the packet's distribution to the Board, are available for public review in the lobby of the District office during normal business hours.*
- Agendas and minutes are available at www.vidwater.org.*
- VID Board meetings are generally held on the first and third Wednesday of each month.*

AFFIDAVIT OF POSTING

I, Lisa R. Soto, Board Secretary of the Vista Irrigation District, hereby certify that I posted a copy of the foregoing agenda in the lobby of the District office at 1391 Engineer Street, Vista, California at least 72 hours prior to the meeting, in accordance with Govt. Code Sec. 54954.2(a).

Date: February 13, 2020



 Lisa R. Soto, Board Secretary



Agenda Item: 6

STAFF REPORT

Board Meeting Date: February 18, 2020
Prepared By: Lisa Soto

SUBJECT: CONSENT CALENDAR

- A. Waterline project approval
- B. Acknowledgement of Easements
- C. Minutes of the Warner Ranch Committee meeting on January 29, 2020
- D. Minutes of the Board of Directors meeting on February 4, 2020
- E. Ratification of check disbursements



STAFF REPORT

Agenda Item: 6.A

Board Meeting Date:	February 18, 2020
Prepared By:	Matt Atteberry
Reviewed By:	Randy Whitmann
Approved By:	Brett Hodgkiss

SUBJECT: WATERLINE PROJECT APPROVAL

RECOMMENDATION: Approve this waterline project and direct staff to file the Notice of Exemption for a proposed 56-unit detached condominium development, known as Arroyo Vista, consisting of approximately 8.39 gross acres owned by Meritage Homes of California, Inc., located at Sycamore Avenue and Watson Way, Vista (P17-0361; LN 2018-006; APNs 217-021-01, -02, -20, -29 and -30; DIV 5).

PRIOR BOARD ACTION: None.

FISCAL IMPACT: None.

SUMMARY: On February 4, 2020, the District signed the improvement plans for this waterline project. Approval of this project will allow the General Manager to sign the construction contract when the owner returns it.

DETAILED REPORT: Under District inspection, the owner's contractor will install approximately 1,771 feet of 8-inch waterline, 385 feet of 4-inch waterline, six 1-inch air-vents, two 2-inch air-vents, eight 2-inch blow-offs, nine 8-inch gate valves, one 4-inch gate valve, four 6-inch fire hydrants, 58 1-inch water services, one 2-inch irrigation service and make connections as approved on the plans. The owner will also submit applications and pay the necessary fees to the District for water meters.

Approval of this waterline project will allow the owner to proceed with the development of their project. Acceptance of Grant of Right of Way (M131) via Tract Map will be brought to the Board for consideration at a subsequent Board meeting.

ATTACHMENT: Map

CONNECTION NO. 1

WATSON WAY

CLOSED VALVE

SITE

SHADOWRIDGE DR
WATSON
SYCAMORE
GREEN OAK
HWY 78

VICINITY MAP

NTS

LEGEND

EXISTING

- WATER MAIN
- BLOW OFF
- AIR VENT
- VALVE
- WATER METER
- FIRE HYDRANT

PROPOSED

- 8" PVC (DR14) WATER
- BLOW OFF
- AIR VENT
- VALVE
- REDUCER
- 6" FIRE HYDRANT
- 6" SUBDIVISION CONSTR. METER

CONNECTION NO. 2

VISTA IRRIGATION DISTRICT

ARROYO VISTA

SYCAMORE & WATSON (P17-0361)

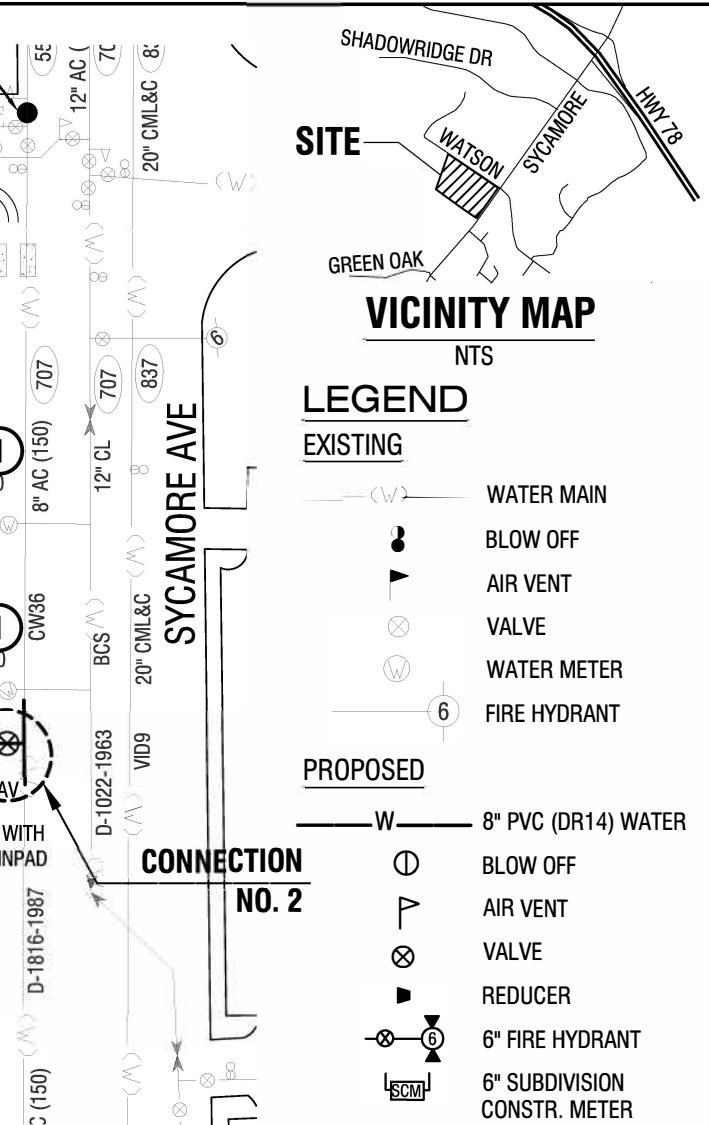
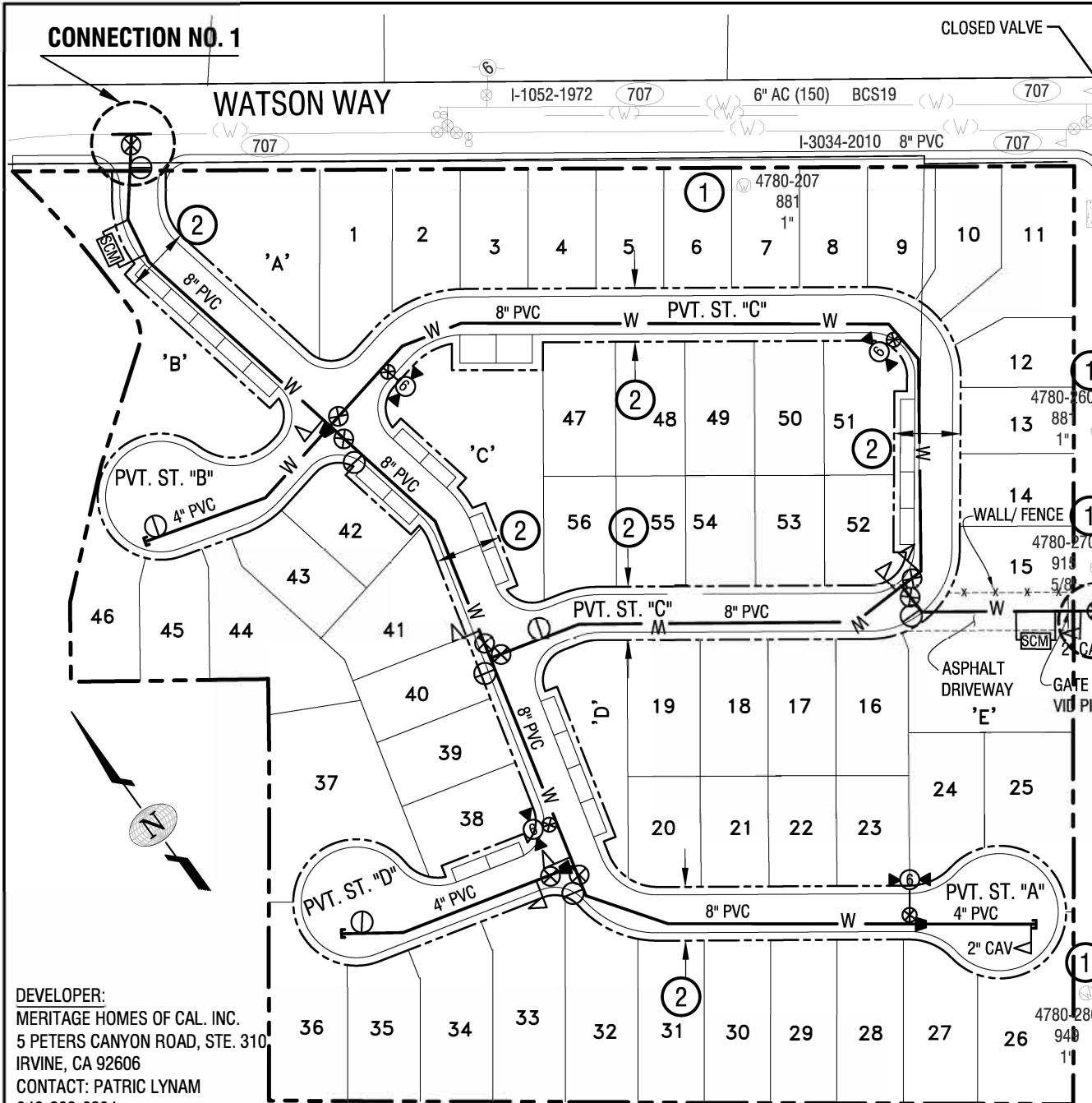
APN 217-021-01, -02, -20, -29 and -30		T.B. 1108 B5
SCALE: NO SCALE		L.N. 2018-006
APPD. BY MA	DATE 2/10/2020	W.O.
DRAWN BY JB	DATE 2/10/2020	
SHEET 1 of 1	MAP H21	
REVISED 2/10/20	Jeanette Bradshaw	
Z:\ENGINEERING\JOBS\LN-JOBS\LN2018\LN 2018-006 SYC & WATSON\LN2018-006		

DEVELOPER:
MERITAGE HOMES OF CAL. INC.
5 PETERS CANYON ROAD, STE. 310
IRVINE, CA 92606
CONTACT: PATRIC LYNAM
949-299-3834

ENGINEER:
PASCO LARET SUITER & ASSOCIATES
535 N. HIGHWAY 101, SUITE A
SOLANA BEACH, CA 92075
CONTACT: RYAN WAUFLE
858-259-8212

ADDITIONAL NOTES

- 1** EXIST. METERS TO BE RELOCATED OR TERMINATED AND USED FOR CAPACITY CREDITS PER SERVICE CHANGE.
- 2** OWNER TO GRANT WATER EASEMENT TO VID PER MAP. ALL VID APPURTENANCES INCLUDING METERS AND FIRE HYDRANTS TO BE WITHIN VID EASEMENT.





STAFF REPORT

Agenda Item: 6.B

Board Meeting Date:	February 18, 2020
Prepared By:	Matt Atteberry
Reviewed By:	Randy Whitmann
Approved By:	Brett Hodgkiss

SUBJECT: ACKNOWLEDGEMENT OF EASEMENTS

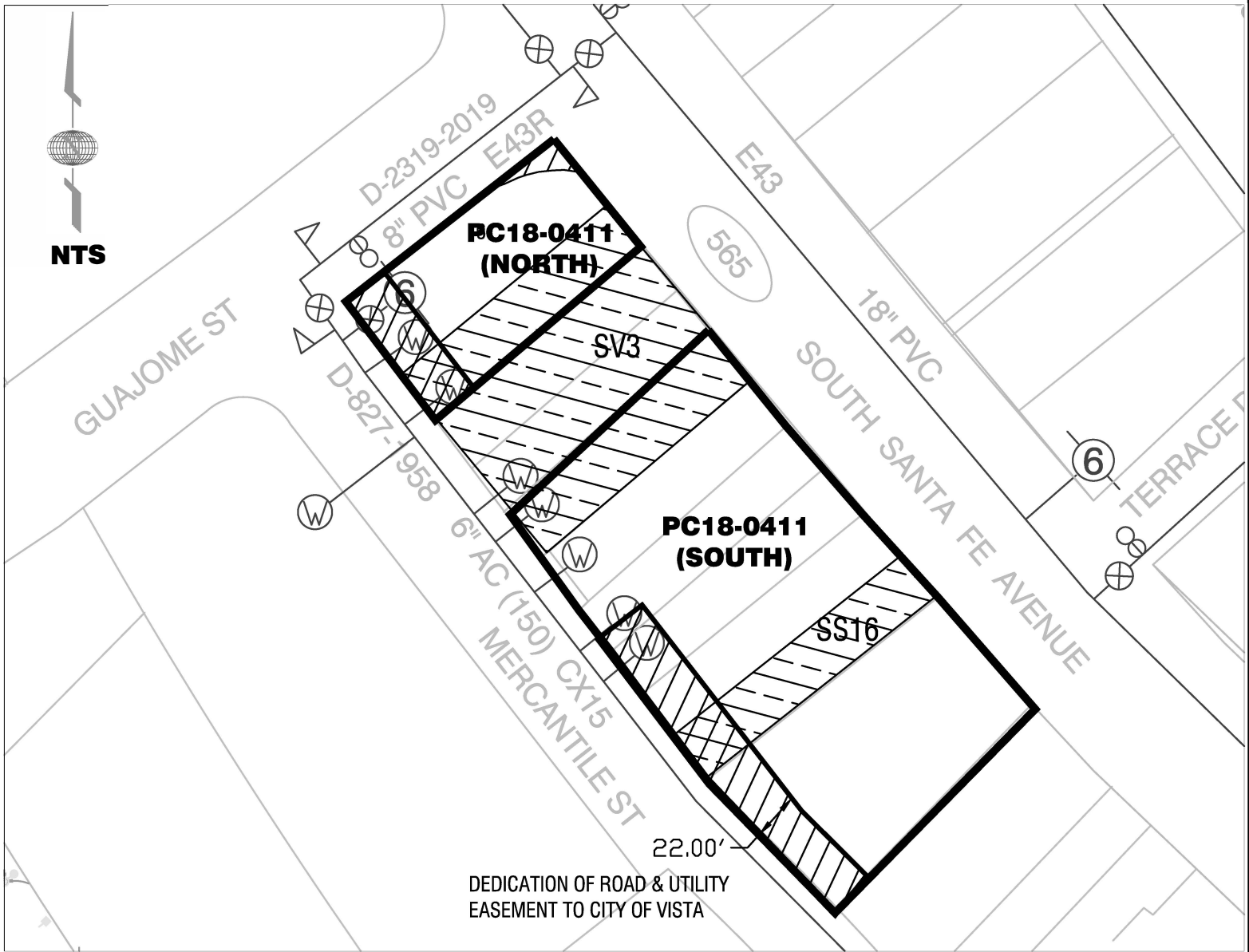
RECOMMENDATION: Acknowledge existing easements via Parcel Maps PC18-0411 North and PC18-0411 South over a commercial project consisting of approximately 0.82 acres owned by the City of Vista along South Santa Fe Avenue, Guajome Street and Mercantile Street, Vista (P18-0321; LN 2019-015; APNs 179-022-01, 179-022-02, 179-022-05, 179-022-06, 179-022-07, 179-022-23, 179-022-24, 179-022-25; DIV NO 4).

PRIOR BOARD ACTION: None.

FISCAL IMPACT: None.

SUMMARY: The City of Vista (City) is in the process of developing a mixed-use affordable housing community with 60 apartment units and commercial retail space on a 0.82-acre site located along South Santa Fe Avenue, Guajome Street and Mercantile Street. In order to develop the property, eight parcels are being combined into two separate parcels and new right-of-way is being dedicated to the City. The District currently has easements encumbering the project that are identified on the Parcel Maps; acknowledgment of the easements will allow the City to record the maps with the County Recorder. Waterline project approval will be brought to the Board for consideration at a subsequent Board meeting.

ATTACHMENT: Map



NTS

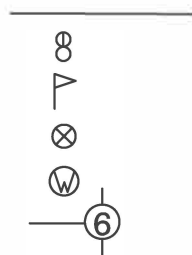


EXISTING VID EASEMENT



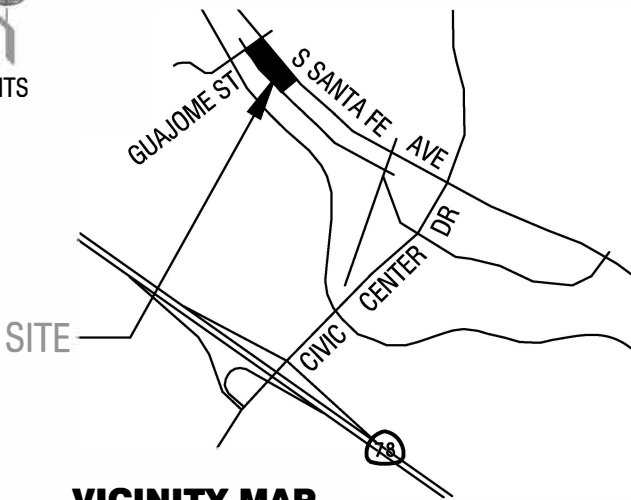
22.00' DEDICATION OF ROAD & UTILITY EASEMENT TO CITY OF VISTA

LEGEND



WATER MAIN
 BLOW OFF
 AIR VENT
 VALVE
 WATER METER
 6" FIRE HYDRANT

NTS



VICINITY MAP

VISTA IRRIGATION DISTRICT

TITLE: PASEO ARTIST VILLAGE

APN: 179-022-01, 02, 06, 07, 23, 24	T.B. 1087 H7	
SCALE: NTS	L.N. 2019-015	
APPD. BY MA	DATE 02/07/20	W.O.
DRAWN BY PD	DATE 01/28/20	
SHEET 1 OF 1	MAP F14	

REVISED:
 PATH: Z:\Engineering\JOBS\LN-Jobs\LN2019\LN 2019-015 Paseo Artist Village\8.5x11 Scher

DRAFT MINUTES

Not part of the District's permanent record until approved by the Board of Directors.

MINUTES OF THE
WARNER RANCH COMMITTEE OF
VISTA IRRIGATION DISTRICT

January 29, 2020

A meeting of the Warner Ranch Committee of Vista Irrigation District was held on Wednesday, January 29, 2020, at the offices of the District, 1391 Engineer Street, Vista, California.

1. CALL TO ORDER

Chair MacKenzie called the meeting to order at 1:00 p.m.

2. ROLL CALL

Committee members present: MacKenzie and Dorey

Committee members absent: None.

Staff present: Brett Hodgkiss, General Manager, Don Smith, Director of Water Resources, Mark Saltz, Water Resources Specialist; and Lisa Soto, Secretary of the Board.

Other attendees: Wayne Taylor was present regarding agenda Item 5. Nine other members of the public were in attendance who were interested in agenda Item 6.

3. APPROVAL OF AGENDA

The agenda was approved as presented.

4. PUBLIC COMMENT TIME

No public comments were presented on items not appearing on the agenda.

5. TAYLOR GRAZING LICENSE AGREEMENT

See staff report attached hereto.

Director of Water Resources Don Smith provided an overview of the item stating that the Taylor Grazing License Agreement terminated when the licensee, Michael Taylor, passed away in 2019. The District has received inquiries from Diane Taylor, widow of Michael Taylor, and Wayne Taylor, brother of Michael Taylor, both interested in taking over the license agreement. Mr. Smith showed the Warner Ranch Committee members (Committee) aerial views of the pasture and the surrounding area (using a detailed map displayed via computer). He stated that there is no developed water in this pasture, and all of the water provided to the watering troughs for the cattle comes from wells on adjacent properties owned by Diane Taylor and Wayne Taylor.

Mr. Smith reviewed the fencing issues associated with the pasture area, stating that some portions are fenced while others are not. In the unfenced areas, it is presumed that Michael Taylor had permission from the adjacent property owners to allow cattle to graze in those areas. He noted the existence of some

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cattle grates to prevent cattle from wandering onto the highway; however, Mr. Smith added that the grates are ineffective due to the way in which they were installed.

Mr. Smith stated that staff would like to get a sense of how the Committee would like to proceed with this license agreement. He stated that the license could remain as written for one of the Taylor parties to assume, or the District could solicit proposals (for use of the pasture area) from the general public to assess other interest. He commented that for a new party to engage in a license agreement for this pasture parts of the agreement would require revisions in order to clarify the need for either additional pasture fencing or roaming and grazing permission from adjacent property owners. The agreement would also need to state that there is no water source on the pasture itself and that the licensee would need to make his/her own provision for watering the cattle in the pasture area.

Mr. Smith said that Mr. Wayne Taylor, who was present in the audience, would be interested in using the pasture for grazing as well as possible container farming of high-value plants. Since Mr. Taylor owns one of the adjacent properties with his own well, water for this use would not be a problem. Chair MacKenzie expressed concern regarding container farming on the property, but added that she would need more information about how this would work. Mr. Taylor addressed the Committee, expressing his interest in taking over the license and adding that container farming was just an idea; he would not pursue it if the District objects. Mr. Taylor said that the number of cattle he would graze on the property would likely be closer to 10 rather than 15. He said that he has 30 years of experience working with his father and his son, Sam, tending to the cattle grazing on this pasture. He said that he discussed taking over the license with his brother Michael Taylor, but sadly his brother passed before that assignment could take place.

Chair MacKenzie suggested that Mr. Taylor and the other interested party (Mr. Taylor's sister-in-law, Diane Taylor) prepare project proposals and submit them to Mr. Smith in the next month or so for consideration by the Committee. Mr. Taylor asked if an interim license could be issued until a decision can be made regarding the awarding of a longer-term license agreement. Chair MacKenzie responded that this is a question for District legal counsel and suggested that Mr. Smith follow-up with General Counsel.

Mr. Taylor left the meeting following the above discussion.

6. CALIFORNIA RIDING AND HIKING TRAIL

See staff report attached hereto.

Mr. Smith provided an overview of the two separate license agreements approved by Vista Irrigation District Board of Directors in 1949 and 1962, giving the State of California (State) access to certain portions of the Warner Ranch for the purpose of constructing and maintaining the California Riding and Hiking Trail (CRHT). In 2008, the State was interested in turning over operation and maintenance of the CRHT to the County of San Diego (County); since then the County has determined that it has inadequate resources to assume responsibility for all of the CRHT alignment within the County and has focused its efforts on other reaches of the trail.

Mr. Smith said that over the past few decades the State has not performed any maintenance on the CRHT. Some members of the public have attempted to maintain the trail; however, they have done so without approval from the State. He said that the license agreement with the State has two termination clauses, 1) the agreement would terminate of its own accord if the CRHT is not maintained by the Licensee (State) for two or more years; or 2) after five years, either party could terminate with notice. Mr. Smith said that District staff considers the agreement to have terminated of its own accord due to lack of maintenance.

DRAFT MINUTES

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He said that the State was notified in 2008 that the District considers the agreement terminated, but no official action was ever taken at the request of the State because hope was being held that the operation of the CRHT could be resumed under the auspices of the County. Mr. Smith noted that the Board authorized the General Manager in 2008 to send a letter to the County expressing conceptual support for the re-establishment of the CRHT; re-establishment of the CRHT would require a new agreement with the County identifying routes, trail management and liability issues.

Chair MacKenzie welcomed the members of the public present in the audience; she advised that those who wished to address the Committee would have five minutes in which to make their statements. Chair MacKenzie stated she would call the speakers up in the order in which the requests were received beginning with Ms. Maryanne Vancio.

Ms. Vancio of El Cajon stated that she first met Mr. Smith in 2008 when she was the County Trails Coordinator. She worked with the California State Parks on an assessment of the CRHT with the goal of the County taking over the trail easements on private lands and the alignment across District lands; Ms. Vancio worked with Mr. Smith on assessing the portions of the trail that cross District lands. She provided background regarding the efforts in 2008, and what happened to derail the efforts. Ms. Vancio stated California State Parks is currently working on a plan that will allow the State to allocate funds and resources to the CRHT, which is an important first step that has never happened before. She stated that the CRHT passes through nine unincorporated communities, and for many of those communities, this is their only trail. Ms. Vancio addressed liability concerns, stating that California Civil Code Section 846 (CCC 846) states that if a public agency has a recreational trail on its property, the State will indemnify and reimburse the public agency for claims related to the use of the trail by the general public. She reviewed other liability safeguards provided by the County, called the Trails Defense and Indemnification Ordinance, which provides protections beyond CCC Section 846.

Ms. Vancio stated that she and others are encouraging a joint agreement between California State Parks and the County to manage the CRHT. She is also working on creating a non-profit organization, the California Riding and Hiking Trail Association (Association), tailored after the Pacific Crest Trail (PCT) Association, which would be responsible for the day-to-day management of the CRHT. The Association would be the first point of contact for CRHT users and landowners that have reaches of the trail cross their property and would take care of the maintenance needs. As a non-profit, the Association would be able to fundraise and apply for grants. Ms. Vancio said that she believes the time is right to get these things done and asked that the District not to make any decisions regarding closing the trail at this time.

Ms. Kathleen Hayden of Santa Ysabel said that she has served as a consultant on trails and easement matters in the State. She spoke about the history of the CRHT, and the accolades it has received in years past. She explained the differences between the CRHT and the PCT. Ms. Hayden read aloud an excerpt from the National Historic Preservation Act of 1966 and spoke strongly in favor of keeping the CRHT open and maintained.

Ms. Judy Taylor of Warner Springs characterized herself as a passionate property owner and user of the CRHT. She said that she bought her home in Warner Springs specifically for the CRHT, and she uses the trail often for riding her horse and for hiking. Ms. Taylor stated that she used to live in Ramona, and many of the horse trails there have been closed due to development; she would hate to see this trail close too.

DRAFT MINUTES

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Ms. Stacey Landfield of Warner Springs said she chose where she lives for the beauty of the area, and she would be willing to work to maintain the CRHT, just as others present in the audience. She spoke in favor of keeping the CRHT open and accessible.

Mr. Martin Jorgensen of Ramona stated that he is a current board member of the San Diego Trails Alliance and past president and current board member of the Back Country Horsemen of California. He stated that he has been working on trail issues in the County for over 20 years. Mr. Jorgensen provided clarification and background regarding the CRHT and the PCT, noting that the CRHT predates the PCT by about 20 years. He clarified that one difference between the two trails is that mountain bikers are not allowed to use the PCT, but they are able to use the CRHT. Mr. Jorgensen commented that the portion of the CRHT on District land is in good shape and does not appear to need a lot of maintenance. He spoke in support of the District allowing some time for the California State Parks and the County to get together and see if a non-profit can be formed to directly address maintenance of the trail. Mr. Jorgensen asked that the District table discussion and consideration about closing the CRHT for the time being.

Mr. Larry Kelly of Warner Springs spoke in favor of keeping the CRHT open because he believes the 20-foot easement (on private properties) on which the trail lies was intended as a firebreak. He said he is concerned about fires that could be started by hunter's stray bullets ricocheting off rocks.

Mr. Lawrence Peabody of Warner Springs provided history regarding the CRHT and the PCT stating that the CRHT was established 75 years ago and was originally dedicated to World War II veterans. He noted that in the year 2000 the White House Millennium Council designated the CRHT as a Millennium Trail (a copy of this designation was provided by Kathleen Hayden, and is attached hereto as Exhibit A). Mr. Peabody said that the public owns the easement on which the CRHT is located; therefore, he believed it to be improper for the District to construct barriers or remove signage placed there by the public.

Chair MacKenzie said that since the Alexandra Stehl, California State Parks Statewide Trails Manager, is going meet with staff in February or March 2020 regarding the CRHT, it was timely to hear from the public on this matter. She said that the comments presented were enlightening, and she thanked all in attendance. Chair MacKenzie said that this matter will be considered again by the Committee after the staff's meeting with Ms. Stehl.

7. COMMENTS BY COMMITTEE MEMBERS

No committee member comments were presented.

8. ADJOURNMENT

There being no further business to come before the Committee, at 2:39 p.m. Chair MacKenzie adjourned the meeting.

Jo MacKenzie, Chair

ATTEST:

Lisa R. Soto, Secretary
Board of Directors
VISTA IRRIGATION DISTRICT

DRAFT MINUTES

Not part of the District's permanent record until approved by the Board of Directors.

MINUTES OF THE REGULAR MEETING OF THE
BOARD OF DIRECTORS OF
VISTA IRRIGATION DISTRICT

February 4, 2020

A Regular Meeting of the Board of Directors of Vista Irrigation District was held on Tuesday, February 4, 2020 at the offices of the District, 1391 Engineer Street, Vista, California.

1. CALL TO ORDER

President Vásquez called the meeting to order at 9:00 a.m.

2. ROLL CALL

Directors present: Miller, Vásquez, Dorey, Sanchez, and MacKenzie.

Directors absent: None.

Staff present: Brett Hodgkiss, General Manager; Ramae Ogilvie, Assistant Secretary of the Board; Don Smith, Director of Water Resources; Randy Whitmann, Director of Engineering; Frank Wolinski, Director of Operations and Field Services; Marlene Kelleher, Director of Administration; Gregg Keppler, Engineering Project Manager; Matt Atteberry, Engineering Services Manager; and Mark Saltz, Water Resources Specialist.

Other attendees: None.

3. PLEDGE OF ALLEGIANCE

Director MacKenzie led the pledge of allegiance.

4. APPROVAL OF AGENDA

20-02-12	<i>Upon motion by Director MacKenzie, seconded by Director Dorey and unanimously carried (5 ayes: Miller, Dorey, Sanchez, MacKenzie, and Vásquez), the Board of Directors approved the agenda as presented.</i>
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5. ORAL COMMUNICATIONS

No public comments were presented on items not appearing on the agenda.

6. CONSENT CALENDAR

20-02-13	<i>Upon motion by Director MacKenzie, seconded by Director Dorey and unanimously carried (5 ayes: Miller, Dorey, Sanchez, MacKenzie, and Vásquez), the Board of Directors approved the Consent Calendar, including Resolution No. 20-05 approving disbursements.</i>
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DRAFT MINUTES

Not part of the District's permanent record until approved by the Board of Directors.

A. Treasurer's report as of December 31, 2019

See staff report attached hereto. The Board noted and filed this informational report concerning the investments of the District.

B. Acceptance of water system

See staff report attached hereto. Staff recommended and the Board accepted the water system for a three-lot single-family dwelling subdivision consisting of approximately 1.14 gross acres owned by John P. and Lori R. Ivcevic, located at 262 Hannalei Drive, Vista (WOI-3084; LN 2018-011; APNs 183-122-71, -72, and -73; DIV 3).

C. Encroachment permit

See staff report attached hereto. Staff recommended and the Board approved Encroachment Permit (130) for a dedicated specific easement over a single-family residence, consisting of approximately 1.2 gross acres owned by Thomas Tombs and Sandy Deveze, located at 1000 Miramar Drive, Vista (LN 2019-012; APN 183-170-81; DIV 4).

D. Minutes of Board of Directors meeting on January 22, 2020

The minutes of January 22, 2020 were approved as presented.

E. Resolution ratifying check disbursements

RESOLUTION NO. 20-05

BE IT RESOLVED, that the Board of Directors of Vista Irrigation District does hereby approve checks numbered 63594 through 63685 drawn on Union Bank totaling \$539,862.26.

FURTHER RESOLVED that the Board of Directors does hereby authorize the execution of the checks by the appropriate officers of the District.

PASSED AND ADOPTED unanimously by a roll call vote of the Board of Directors of Vista Irrigation District this 4th day of February 2020.

7. DIVISION REPORTS

See staff report attached hereto.

General Manager Brett Hodgkiss noted that deconstruction of HB Reservoir's roof is complete, and video of said deconstruction work is posted on the District's website.

Director of Water Resources Don Smith provided clarification regarding the "VID Water Production Table for December 2019" noting that the amount of treated water supplied to Rincon del Diablo Municipal Water District (58.10 acre feet) exceeded treated water purchases from the San Diego County Water Authority.

DRAFT MINUTES

Not part of the District's permanent record until approved by the Board of Directors.

Director of Operations and Field Services Frank Wolinski provided clarification regarding the inspection and testing of 15 new backflow devices; he stated that the number of backflows inspected and tested can vary from as few as seven to as many as 40 per month.

President Vásquez requested an update on the total amount of pipe replaced since the inception of the District's Main Replacement Program. Director of Engineering Randy Whitmann stated that information regarding the total amount of pipe replaced will be included as part of the Main Replacement Program update that will be presented to the Board at its February 18, 2020 meeting.

Mr. Whitmann reviewed the projects along the Vista Flume (Flume) identified in the Engineering Division Report, noting that only the Villages and the Orchard Hills projects are in close proximity to the Flume. Director Miller said that when projects are being planned near the Flume there may opportunities for the District to have the developers assume all or some of the cost of undergrounding sections of the Flume. Mr. Whitmann said that this would be a possibility, especially following the completion of the District's Water Supply Planning Study, as staff will then have a roadmap of how the District intends to proceed with the Flume into the future.

8. LAKE HENSHAW / WARNER RANCH INSPECTION TOUR

See staff report attached hereto.

Following brief discussion, the Board chose Thursday, April 16, 2020 for its annual inspection tour of Lake Henshaw and the Warner Ranch. Mr. Hodgkiss stated that a draft agenda would be presented for the Board's consideration at a future meeting.

20-02-14	<i>Upon motion by Director Sanchez, seconded by Director Dorey and unanimously carried (5 ayes: Miller, Dorey, Sanchez, MacKenzie, and Vásquez), the Board of Directors selected Thursday, April 16, 2020 as the date for its annual inspection tour of Lake Henshaw and the Warner Ranch.</i>
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9. VISTA HALL OF FAME REQUEST FOR PARTICIPATION

See staff report attached hereto.

Following a brief discussion, the Board took the following action:

20-02-15	<i>Upon motion by Director MacKenzie, seconded by Director Miller and unanimously carried (5 ayes: Miller, Dorey, Sanchez, MacKenzie, and Vásquez), the Board of Directors appointed Paul Dorey to participate on the nominating committee for the Vista Historical Society Hall of Fame.</i>
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10. MATTERS PERTAINING TO THE ACTIVITIES OF THE SAN DIEGO COUNTY WATER AUTHORITY

See staff report attached hereto.

DRAFT MINUTES

Not part of the District's permanent record until approved by the Board of Directors.

Director Miller reported that the San Diego County Water Authority (Water Authority) Board of Directors approved a construction contract for the Mission Trails Flow Regulatory Structure II / Lake Murray Control Valve project for approximately \$28 million at its January 23, 2020 meeting. This project will include a 4.2 million gallon underground storage tank. The Water Authority Board also approved a professional services contract for a seismic vulnerability assessment of all aqueducts.

Director Miller reported that, as a Water Authority Board member, he attended a tour of the Imperial Valley the previous Thursday; the tour highlighted areas critical to the Water Authority's proposed regional conveyance system. The tour started in southwestern Imperial County where the three potential routes for a new conveyance system would begin and proceeded to the Salton Sea where tour participants received an update on restoration efforts, including the 500-acre Red Hill Marina Wetlands Project.

11. MEETINGS AND EVENTS

See staff report attached hereto.

Director Dorey reported on his attendance at a meeting of the Southern California Water Coalition in Ontario on January 24, 2020. He said that the meeting included a panel discussion regarding water and change in political climate. Speakers included Ed Manning, KP Public Affairs, Adam Probolsky, Probolsky Research, and Jay Ziegler, the Nature Conservancy California.

Director Dorey reported that Jerry Gladbach, President of the Association of California Water Agencies (ACWA) Joint Powers Insurance Authority (JPIA), notified him that Randall Reed of Cucamonga Valley Water District was appointed to the ACWA JPIA Executive Committee.

President Vásquez and Directors Miller, Dorey, and Sanchez all reported on their attendance at the Vista Chamber of Commerce State of the Community luncheon. Speakers at the luncheon included Keynote Speaker Judy Ritter, Mayor of the City of Vista; Dr. Gene Ma, Chief Medical Officer of the Tri-City Medical Center; and Jerry Sanders, Chief Executive Officer of the San Diego Regional Chamber of Commerce. President Vásquez commented that the Vista Chamber of Commerce might be interested to know that the District will have its 100th birthday coming up in three years.

Director MacKenzie reported on her attendance at the California Special Districts Association (CSDA) San Diego Chapter Executive Committee meeting where discussion centered on the CSDA video contest, and how the Chapter can better promote its own video contest. She said that one of the recent winners in the statewide contest was from Mission Hills High School in San Marcos. Director MacKenzie noted that the student did not submit an entry to the local contest earlier in the year.

Director MacKenzie reported on a conference call for the CSDA Finance Corporation in which she participated the previous day; the call included a review of finances and the work plan for 2020. She reported that she also attended a meeting of the ACWA Legislative Committee and a webinar for the CSDA Legislative Committee, both on the same day. Both committees discussed plans for the year and reviewed legislative terminology as well as pending legislation.

Director MacKenzie reported briefly on the Warner Ranch Committee (Committee) meeting held on January 29, 2020. She stated that the Committee discussed the Taylor Grazing License Agreement and California Riding and Hiking Trail (CRHT), noting that about 7-10 members of the public were present for the CRHT item and several spoke in favor of keeping the CRHT open. It was noted that both items will be

DRAFT MINUTES

Not part of the District's permanent record until approved by the Board of Directors.

revisited by the Committee before any recommendations will be made to the full Board. Upon inquiry by Director MacKenzie, Mr. Smith provided brief clarification regarding access points to the CRHT.

President Vásquez and Directors Dorey and Sanchez requested to attend the Spring ACWA Conference in Monterey, May 5-8, 2020. Director MacKenzie requested to attend the Special Districts Legislative Days in Sacramento, May 19-20, 2020 and the California Special Districts Association (CSDA) Quarterly dinner meeting on May 21, 2020 in Kearny Mesa.

President Vásquez expressed an interest in being nominated to attend the Spring 2020 Citizens Water Academy sponsored by the Water Authority in March 2020. If his nomination is accepted, he requested authorization to attend the three sessions in Oceanside scheduled for March 11, 17, and 27, 2020.

20-02-16	<i>Upon motion by Director Miller, seconded by Director MacKenzie and unanimously carried (5 ayes: Miller, Dorey, Sanchez, MacKenzie, and Vásquez), the Board of Directors authorized the following attendances by Directors: Vásquez, Dorey and Sanchez to attend the Spring ACWA Conference in Monterey, May 5-8, 2020; MacKenzie to attend the Special Districts Legislative Days in Sacramento, May 19-20, 2020 and the CSDA Quarterly dinner meeting on May 21, 2020 in Kearny Mesa; and Vásquez to attend the Spring 2020 Citizens Water Academy in Oceanside, March 11, 17, and 27, 2020.</i>
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12. ITEMS FOR FUTURE AGENDAS AND/OR PRESS RELEASES

See staff report attached hereto.

Mr. Hodgkiss stated that both the Main Replacement Program update and the Opportunity-based Pipeline Condition Assessment Program would be presented at the February 18, 2020 Board meeting as would an update on San Pasqual Undergrounding Project. He reminded the Board that the Water Supply Planning Study workshop is scheduled for March 11, 2020 at 9:00 a.m. Mr. Hodgkiss advised the Board that General Counsel has confirmed his availability to provide Ethics Training on May 12, 2020 at 9:00 a.m.

13. COMMENTS BY DIRECTORS

Director Miller stated that the Water Authority will perform a shutdown of Aqueduct 1 in mid-February to repair a leak in the Escondido area.

President Vásquez stated that it was reported in the news that the City of Poway was considering issuing refunds to its customers to compensate them for the weeklong precautionary boil water advisory that occurred in December 2019; the average refund was estimated at \$28.00 per customer.

President Vásquez inquired as to whether an emergency action plan exists for the Henshaw Dam. Director of Water Resources Don Smith advised the Board that the District does have an Emergency Action Plan for the Henshaw Dam and that it is currently in the process of being updated.

DRAFT MINUTES

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14. COMMENTS BY GENERAL MANAGER

Mr. Hodgkiss informed the Board that he, Director of Administration Marlene Kelleher and Director MacKenzie met with a representative from the CSDA Finance Corporation regarding financing opportunities for capital projects the day after the January 22, 2020 Board meeting. He said that the District will need evaluate all funding opportunities, including grants and loans, available for capital projects before deciding which mechanism would be most advantageous for the District and its customers.

President Vásquez said on the subject of large capital projects that the District will likely need the support of the community when large projects come up. He said that this is why he believes it would behoove the Board to become more active in the community now, attending events such as the Vista Chamber of Commerce Business Mixers (formerly known as the Sundowner events).

Mr. Hodgkiss pointed out the copies of the newspaper article that that were left at each Director's place at the dais regarding the passing of Frank Mendenhall, who along with his wife Janice, operate the Lake Henshaw Concession. He said that the District was informed that an event is being planned for March 7, 2020 in honor of Mr. Mendenhall; however, no details were available. Mr. Hodgkiss indicated that he will share more information as it becomes available.

15. ADJOURNMENT

20-02-17	<i>Upon motion by Director Sanchez, seconded by Director Dorey and unanimously carried (5 ayes: Miller, Dorey, Sanchez, MacKenzie, and Vásquez), the Board of Directors adjourned the meeting in memory of Frank Mendenhall.</i>
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There being no further business to come before the Board, at 10:22 a.m. President Vásquez adjourned the meeting to February 18, 2020 at 9:00 a.m.

Richard L. Vásquez, President

ATTEST:

Lisa R. Soto, Secretary
Board of Directors
VISTA IRRIGATION DISTRICT



Cash Disbursement Report

Payment Dates 01/23/2020 - 02/05/2020

Payment Number	Payment Date	Vendor	Description	Amount
63686	01/29/2020	Refund Check 63686	Customer Refund	80.95
63687	01/29/2020	Airgas USA LLC	Mig Welder Wire	93.15
63688	01/29/2020	Amazon Capital Services	Tarp Kit - T12	183.57
	01/29/2020		Limit Switch Wheels (2)	27.00
	01/29/2020		6 Volt Lantern Battery (3)	18.28
	01/29/2020		Liquid Nail, PVC Ball Valves	153.73
63689	01/29/2020	AT&T	3680/CALNET3 12/13/19 - 01/12/20 - Phones	385.47
	01/29/2020		0230/CALNET3 12/13/19 - 01/12/20 - Teleconference	2.15
63690	01/29/2020	Basic pacific	Annual FSA Plan Renewal Fee 2020	325.00
	01/29/2020		Flexible Spending Service/Cobra 01/2020	308.00
63691	01/29/2020	Canon Solutions America, Inc	Canon Supplies & Services	22.27
63692	01/29/2020	760Print	Door Hangers (3000)	660.33
63693	01/29/2020	Citi Cards	Vista State of the Community Luncheon - R Whitmann	75.00
	01/29/2020		Costco Membership Renewal	180.00
	01/29/2020		Kitchen & Building Supplies	765.44
	01/29/2020		GFI Faxmaker Online Service	12.75
	01/29/2020		Unemployment Insurance Pamphlets 2020 (2)	50.79
	01/29/2020		Employment Advertising	200.00
	01/29/2020		Employment Advertising	100.00
	01/29/2020		Vista State of the Community Luncheon - P Dorey	75.00
	01/29/2020		Urban Water Conference - R Vasquez	388.22
	01/29/2020		ACWA Water Quality Committee Mtg - R Vasquez	162.96
	01/29/2020		Vista State of the Community Luncheon - R Vasquez	75.00
	01/29/2020		Vista State of the Community Luncheon - M Miller	75.00
	01/29/2020		Sustainable Groundwater Mgmt Workshop - P Dorey	136.27
	01/29/2020		Vista State of the Community Luncheon - P Sanchez	75.00
	01/29/2020		Urban Water Institute Conference - R Vasquez	525.00
	01/29/2020		Southern California Water Coalition Mtg - P Dorey	75.00
	01/29/2020		Vista State of the Community Luncheon - B Hodgkiss	75.00
63694	01/29/2020	City Of Escondido	Escondido Water Treatment Plant 11/2019 - 12/2019	258,411.00
	01/29/2020		Escondido Canal Operating Cost 10/2019 - 12/2019	86,316.19
	01/29/2020		EVWTP OSG Expenses 10/2019 - 12/2019	3,011.20
63695	01/29/2020	Core & Main	12" FL x FL Gate Valve (2)	9,504.35

Payment Number	Payment Date	Vendor	Description	Amount
	01/29/2020		1" Meter Gaskets 1/8" Thick (200)	108.25
63696	01/29/2020	DIRECTV	Direct TV Service	97.99
63697	01/29/2020	Fastenal Company	Anchors & Screws	23.37
63698	01/29/2020	Ferguson Waterworks	Claval Regulator Parts	2,469.85
	01/29/2020		Small DFW Water Meter Boxes (23)	1,219.98
63699	01/29/2020	Glennie's Office Products Inc	Office Supplies	66.53
63700	01/29/2020	Hawthorne Machinery Co	Battery Core - B20	(5.39)
	01/29/2020		Battery Core - B16	(5.39)
	01/29/2020		Alternator Core - B16	(219.69)
	01/29/2020		Loader Bucket Cutting Edge & Hardware - L6	711.84
	01/29/2020		Battery - B20	136.30
	01/29/2020		Mounting Hardware	69.39
	01/29/2020		Credit for DMV Filing	(159.00)
63701	01/29/2020	Interstate Battery of San Diego Inc	Solar Batteries (2)	456.71
63702	01/29/2020	Jackson & Blanc	Diagnose & Repair AC Unit	1,378.98
63703	01/29/2020	Jeanette Bradshaw	Reimburse- InfoWater Training 01/14/20 - 01/15/20	249.16
63704	01/29/2020	Jo MacKenzie	Reimburse - ACWA State Legislative Committee Mtg	394.26
63705	01/29/2020	Joe's Paving	Patch Paving	9,472.40
	01/29/2020		Patch Paving	5,919.60
63706	01/29/2020	Lightning Messenger Express	Messenger Service 01/03/2020	52.50
63707	01/29/2020	LinguaLinx Language Solutions, Inc	Translation Service	679.88
63708	01/29/2020	Matt Atteberry	Reimburse - InfoWater Training 01/14/20-01/15/20	263.85
63709	01/29/2020	Mutual of Omaha	LTD, STD, Life Insurance	6,572.39
63710	01/29/2020	NAPA Auto Parts	Black Touch up Paint - T12	18.93
	01/29/2020		Switch - Truck 56	15.14
	01/29/2020		Light Cord Adapter - T12	21.64
63711	01/29/2020	North County Auto Parts	Filters, Shop Chemicals, Oil	218.07
	01/29/2020		Switch - Truck 56	12.10
	01/29/2020		Turn Rotors (4)	90.00
	01/29/2020		Light Cord Adapter - T13	23.09
	01/29/2020		Fuel Cap - Truck 45	14.09
63712	01/29/2020	North County Industrial Park	Association Fees 02/2020 - Engineer St	879.30
63713	01/29/2020	O'Reilly Auto Parts	Battery Cores (3) - Truck 52	(66.00)
	01/29/2020		Breakaway Battery Core (1) - VM1	(15.00)
	01/29/2020		Battery - VM1	252.20
	01/29/2020		Trailer Cord Connector & Cord Adapter	36.78
	01/29/2020		PTO Shaft U-Joints (2) - Truck 30	40.90
	01/29/2020		Neutral Safety Switch - Truck 30	50.61

Payment Number	Payment Date	Vendor	Description	Amount
	01/29/2020		Spark Plugs (6) - C5	21.37
	01/29/2020		Battery Cores (2)	(40.00)
	01/29/2020		PTO Shaft U-Joints (2) - Truck 11	40.90
63714	01/29/2020	Pacific Pipeline Supply	Inserts for Service Lateral Repair (10)	44.60
63715	01/29/2020	Pauley Equipment Rental Inc	Excavator Rental - Borden Bench	581.25
63716	01/29/2020	S & R Towing	Towing Service 1/17/20 - Truck 30	250.00
	01/29/2020		Towing Service 1/23/20 - Truck 30	250.00
63717	01/29/2020	San Diego Gas & Electric	Electric 01/2020 - Henshaw Buildings & Ground	792.11
	01/29/2020		Electric 01/2020 - Henshaw Wellfield	11,448.36
	01/29/2020		Electric 01/2020 - Dam House	65.94
	01/29/2020		Electric 01/2020 - Warner Ranch House	150.91
63718	01/29/2020	San Luis Rey Indian Water Authority	2019 Surplus Supplemental Water	8,115,645.82
63719	01/29/2020	Sealright Paving Inc.	Grind & Cap - Warmlands Ave Phase II	27,200.00
63720	01/29/2020	Sherry Thorpe	Reimburse - New Hire Lunches	152.96
63721	01/29/2020	Southern Counties Lubricants, LLC	Fuel 01/01/20 - 01/15/20	4,314.74
63722	01/29/2020	Statewide Traffic Safety and Signs, Inc	No Trespassing Signs (100)	2,273.25
63723	01/29/2020	TS Industrial Supply	Channel Lock 10" (2)	36.81
	01/29/2020		Channel Lock 12" (2)	47.63
	01/29/2020		Channel Lock 16" (2)	89.63
	01/29/2020		Gloves Thickster Nitrile XL 100 per box (10)	154.26
	01/29/2020		Wire Brush Small (10)	26.63
	01/29/2020		Max Ear Plug (Uncorded) #Max - 1 (1)	31.93
	01/29/2020		Nemesis Clear Lens Black Frame Glasses (12)	64.82
	01/29/2020		Pyramex Safety Glasses Blk Frame / Amber Lens (12)	175.37
	01/29/2020		Sea 2" Pipe Wrap Tape (25)	175.91
	01/29/2020		Teflon Tape 1" (20)	23.60
	01/29/2020		Counter Brush 8" #8 (2)	16.89
63724	01/29/2020	Johnson Controls Security Solutions LLC	Security & Fire Alarm Maintenance/ Monitoring 2/2020	2,660.23
63725	01/29/2020	UniFirst Corporation	Uniform Service	312.33
63726	01/29/2020	Verizon Wireless	Air Cards 12/13/19 - 01/12/20	76.02
	01/29/2020		Cell Phones 12/16/19 - 01/15/20	1,321.09
63727	01/29/2020	VG Donuts & Bakery Inc	Board Meeting 01/22/20	33.70
63728	01/29/2020	Vista Brake & Smog	Front end Alignment - Truck 39	116.00
63729	01/29/2020	WorkPartners OHS	Pre-employment Medical Exam	224.00
63730	02/05/2020	Refund Check 63730	Customer Refund	2,055.46
63731-63735	02/05/2020	Refund Checks 63731-63735	Customer Refunds	3,327.43
63736	02/05/2020	Refund Check 63736	Customer Refund	25.26
63737	02/05/2020	Airgas USA LLC	Welding/Cutting Gear	105.02

Payment Number	Payment Date	Vendor	Description	Amount
63738	02/05/2020	AirX Utility Surveyors, Inc	Potholing - Monte Vista	2,460.00
63739	02/05/2020	Amazon Capital Services	Running Lights (20)	24.87
	02/05/2020		Battery for Emergency Lighting	(7.55)
	02/05/2020		Warehouse Supplies	176.61
63740	02/05/2020	AT&T	SIP Trunks	429.89
	02/05/2020		Data Service	698.93
63741	02/05/2020	Auto Specialist Warehouse	Rear Brake Parts - Truck 14	78.37
	02/05/2020		Brake Caliper - Truck 79	125.81
	02/05/2020		Brake Caliper - Truck 79	(125.81)
63742	02/05/2020	CAPPO	Membership Dues 2020	130.00
63743	02/05/2020	CI Solutions	ID Cards	123.06
63744	02/05/2020	CDW Government Inc	Network Device Back-up	204.28
63745	02/05/2020	Cecilia's Safety Service Inc	Traffic Control - York Dr/Montgomery Dr	1,615.00
	02/05/2020		Traffic Control - York Dr/Montgomery Dr	6,270.00
	02/05/2020		Traffic Control - Bonair Rd	3,230.00
	02/05/2020		Traffic Control - Lado De Loma	1,235.00
	02/05/2020		Traffic Control - Highland Dr	665.00
63746	02/05/2020	City Of Escondido	Bear Valley Reconciliation 07/2019 - 12/2019	4,871.14
63747	02/05/2020	Coast Equipment Rentals	Concrete	221.91
63748	02/05/2020	Coastal Chlorination & Backflow	Chlorination Service	384.00
63749	02/05/2020	Core & Main	1" Brass Clamps for Anodes (50)	138.02
	02/05/2020		Calder Coupling 8" Clay x 8" PVC (DFW-02-E88) (1)	18.40
	02/05/2020		6" PVC Pipe Restraint - (Star or Sigma) (11)	288.76
	02/05/2020		4" PVC Pipe Restraint (star or Sigma) (4)	85.53
	02/05/2020		Bushing 1" x .75" Sch 40 PVC (5)	4.60
	02/05/2020		2.5" PVC Ball Valve Sch 40 S x S (1)	21.81
	02/05/2020		6" Flg Spool (1)	270.88
63750	02/05/2020	Craneworks Southwest Inc	Crane Inspection Logbooks (4)	107.75
63751	02/05/2020	Diamond Environmental Services	Portable Restroom Service	114.70
	02/05/2020		Portable Restroom Service	81.14
	02/05/2020		Portable & Stationary Restroom Service	374.20
63752	02/05/2020	EDCO Waste & Recycling Services Inc	Trash & Recycle Service 01/2020	233.87
63753	02/05/2020	Edgehill Road Gate Association	Edgehill Road/Gate Maintenance Fee 2020	600.00
63754	02/05/2020	Fastenal Company	Anchors (100)	6.45
63755	02/05/2020	Ferguson Waterworks	Fire Hydrant 6" Break Off Spool LB400 (2)	482.25
	02/05/2020		Tee 6" DI POxFL (1)	138.73
	02/05/2020		Clamp 6x12 Repair Full Circle SS Romac (1)	158.08
	02/05/2020		Pipe Lube 5 gal (2)	160.21

Payment Number	Payment Date	Vendor	Description	Amount
	02/05/2020		Pipe 2" PVC Schedule 40 (80)	66.68
	02/05/2020		Adapter 6" DI POxFL (4)	358.52
	02/05/2020		Fire Hydrant Rod 15"x.5" Break Off Stainless Steel (2)	116.91
	02/05/2020		Ell 6" DI FL 22.5 Degree (1)	93.53
	02/05/2020		Coupling 4" Macro (3)	632.91
	02/05/2020		Fire Hydrant Spool 6x18 DI (1)	121.24
	02/05/2020		Plastic Wrap Clear 8 mil 3'x100' (Visqueen) (10)	259.80
	02/05/2020		Ell 6" DI FL 90 Degree (2)	220.57
	02/05/2020		DFW Meter Box Lid Large PW6C (VID Stamp) (5)	432.46
	02/05/2020		DFW Meter Box Lid 3.5 DFW36C (VID Stamp) (40)	1,645.40
	02/05/2020		DFW Meter Box Lid Medium 1220E (VID Stamp) (25)	1,299.00
	02/05/2020		DFW Meter Box Small DFW1324CH4-12 (25)	2,163.65
	02/05/2020		DFW Meter Box Lid Small D1324 (VID Stamp) (25)	1,434.31
	02/05/2020		Angle Ball Meter Valve 2" FLG X FIP DD Lockwing (6)	1,568.67
	02/05/2020		Reducer 6x4 DI FL (1)	75.99
	02/05/2020		Ell 4" DI FL 11.25 Degree (1)	75.99
	02/05/2020		Ell 6" DI PO 45 Degree (1)	89.63
	02/05/2020		Reducer 8x6 DI POxFL (1)	121.59
	02/05/2020		Flange 6" SOW 8-hole (6)	123.41
	02/05/2020		Ell 10" DI PO 22.5 Degree (1)	170.69
	02/05/2020		Nipple 2x4 Brass (7)	71.99
	02/05/2020		Bushing 4x2 Black (2)	39.84
	02/05/2020		Tee 8" DI POxFL (1)	220.96
	02/05/2020		Fire Hydrant Rod 15"x.5" Break Off Stainless Steel (3)	175.37
63756	02/05/2020	Frank & Son Paving, Inc	Final Paving - Alta Vista & Sunrise Drive	54,805.00
63757	02/05/2020	Glennie's Office Products Inc	Office Supplies	99.87
63758	02/05/2020	Grainger	Limit Switch Heads (6)	444.32
	02/05/2020		Vault Intrusion Switches, Voltage Sensor Relay	278.63
	02/05/2020		Safety Lockout Devices	31.10
63759	02/05/2020	Hawthorne Machinery Co	Parts Manual - L6	128.91
	02/05/2020		Arm Rest Cushion - B21	89.87
	02/05/2020		Battery - B16	137.61
	02/05/2020		Alternator, Core	439.38
63760	02/05/2020	InfoSend Inc	Data Processing/Mailing Service 12/2019	5,511.43
	02/05/2020		Support & Storage Fee 12/2019	1,349.44
63761	02/05/2020	Inland Water Works Supply Co	Meter 100W ERT (144)	11,691.00
63762	02/05/2020	Iron Mountain Records Management	Offsite Data Storage 12/2019	316.58
63763	02/05/2020	Jackson & Blanc	HVAC Maintenance 1/1/20 - 3/31/20	2,309.00

Payment Number	Payment Date	Vendor	Description	Amount
63764	02/05/2020	Joe's Paving	Patch Paving	4,025.85
63765	02/05/2020	Kimball Midwest	Metric Bolt, Nut, Washer Assortment	370.38
63766	02/05/2020	Liebert Cassidy Whitmore	Legal Services 12/2019	457.50
	02/05/2020		Legal Services 12/2019	76.00
63767	02/05/2020	Mallory Safety and Supply, LLC	Vest Lime Hi-Viz MED (9)	151.69
	02/05/2020		Vest Lime Hi-Viz XL (4)	67.42
	02/05/2020		Vest Lime Hi-Viz 3XL (4)	67.42
63768	02/05/2020	Moodys	Dump Fees (2)	400.00
63769	02/05/2020	North County Auto Parts	Brake Fluid, Protectant, Degreaser, Glass Cleaner	45.54
63770	02/05/2020	North County Ford	Manual Regen of DPF - Truck 65	160.00
63771	02/05/2020	North County Rebuilders	Alternator - VM1	226.24
63772	02/05/2020	Opto 22	SCADA Output Modules (3)	352.80
63773	02/05/2020	O'Reilly Auto Parts	Trailer Cord Adapters (2)	31.26
	02/05/2020		Grease Guns (2)	67.09
	02/05/2020		Air Fresheners for VID Vehicles	45.40
	02/05/2020		Auxiliary Battery (2)	21.46
	02/05/2020		Battery - Truck 36	181.91
	02/05/2020		Battery Core (1)	(18.00)
63774	02/05/2020	Pacific Pipeline Supply	Angle Stops (3)	577.61
	02/05/2020		Ell 6" DI FL 90 Degree (8)	770.74
63775	02/05/2020	Paul Dorey	Reimburse - SGMA Workshop, SCWC Mtg 01/2020	486.85
63776	02/05/2020	Prestige Analytics	AWIA Compliance Crosswalk Design/Completion 1/2020	10,574.00
63777	02/05/2020	Ramco Petroleum	Fuel 12/2019	1,435.25
63778	02/05/2020	Rancho Environmental Service	Removal of Large Eucalyptus Trees (2)	8,950.00
	02/05/2020		Removal of Large Eucalyptus Tree (1)	3,450.00
63779	02/05/2020	Red Wing Shoe Store	Footwear Program	198.79
63780	02/05/2020	Roto-Rooter	Plumbing Service	438.75
63781	02/05/2020	San Diego Gas & Electric	Gas Use 01/2020	1,345.26
	02/05/2020		Electrical Transmission 01/2020	4,495.06
	02/05/2020		Electric 01/2020 - T&D	109.56
	02/05/2020		Electric 01/2020 - Reservoirs	47.92
63782	02/05/2020	Shred-it USA LLC	Shredding Service	124.75
63783	02/05/2020	SignArt	VID Logo Decals (10)	81.35
63784	02/05/2020	SiteOne Landscape Supply, LLC	Fittings - Sockets, Tees, Reducing Bushings	13.93
63785	02/05/2020	Southland Pipe Corp.	38-1/2" OD x 20-1/2" ID x 1/4" Fabricated Collar (1)	290.93
	02/05/2020		19-25/32" x 1/4" T x 10" Pipe Saddle Cut- 31-7/8" (1)	226.28
	02/05/2020		18" AWWA 300# Class F S/O FLG. Bored to 19-29/32" (5)	1,580.41
	02/05/2020		19-25/32" OD x 1/4" Wall Steel Pipe CML/CMC x Ft. (40)	3,421.71

Payment Number	Payment Date	Vendor	Description	Amount
	02/05/2020		19-25/32" Fabricated CL "F" FLxFL 11.25 Degree Elbow (1)	1,571.00
63786	02/05/2020	TS Industrial Supply	Striping Paint Blue #750 (12)	62.09
	02/05/2020		2 x 4 x 12 in. Wood Wedge (90)	104.24
	02/05/2020		Striping Paint White #710 (12)	62.09
	02/05/2020		Striping Paint Blue #750 (12)	62.09
	02/05/2020		Marking Paint Pink #229 (12)	48.58
	02/05/2020		Nozzle #4W Welding (1)	89.85
63787	02/05/2020	UniFirst Corporation	Uniforms	312.33
63788	02/05/2020	Verizon Wireless	SCADA Remote Access	368.87
63789	02/05/2020	Vista Lock & Safe Co	Keys	148.48
63790	02/05/2020	Vulcan Materials Company and Affiliates	Cold Mix	2,010.24
63791	02/05/2020	Water District Jobs	Employment Advertising (2)	290.00
63792	02/05/2020	WorkPartners OHS	Pre-Employment Medical Exams	494.00
Grand Total:				8,734,667.02



STAFF REPORT

Board Meeting Date: February 18, 2020
Prepared By: Don Smith
Approved By: Brett Hodgkiss

SUBJECT: SAN PASQUAL UNDERGROUNDING PROJECT

RECOMMENDATION: Receive update on the status of the San Pasqual Undergrounding Project.

PRIOR BOARD ACTION: The Board has received periodic updates on the status of the San Pasqual Undergrounding Project (SPUP), most recently on August 7, 2019.

FISCAL IMPACT: The current estimate of the cost for the engineering and construction of the SPUP is about \$40 million (including an allowance for construction management and canal abandonment and rehabilitation) to be split equally by the City of Escondido (City) and the District.

SUMMARY: The SPUP is a project to remove, relocate and replace about 2.5 miles of the Escondido Canal that cross the San Pasqual Indian Reservation (see San Pasqual Undergrounding Project Overview Figure, attached). The project is required to be completed by May 17, 2023. While both the City and the District are jointly responsible to complete the project, the City is responsible for managing the design and construction of the SPUP.

The City and District have reviewed 60 percent design drawings for the new facilities (exclusive of canal abandonment plans). Alternatives for access to the new desilting basin have been evaluated and a preferred approach has been identified. Temporary encroachment issues and concepts for canal abandonment and rehabilitation have been defined for discussion with the San Pasqual Band, and the project team has had preliminary conversations with San Pasqual staff about these matters.

DETAILED REPORT: The status of the four major components of the SPUP is as follows:

Desilting Basin – The desilting basin is designed to remove sand and coarse sediments from the canal flow where it transitions from open channel flow to buried box culvert or pipeline flow at the beginning (northern end) of the SPUP. The construction of this large (110’ long x 32’ wide) hydraulic structure within the 100-foot canal right-of-way will require the construction of large retaining walls and temporary encroachment outside the 100-foot canal right-of-way. To provide all-weather access to the desilting basin, a new access road will be excavated to the site in a trench with depths approaching 25 feet. When the depth exceeds about 14 feet, a concrete box tunnel will be constructed and subsequently backfilled to existing grade to avoid permanent encroachment outside of the existing 30-foot wide easement on the San Pasqual Indian Reservation.

Replace in Place Section – After the desilting basin, the first half mile of open canal is replaced with a shallowly buried 60-inch wide by 48-inch high precast concrete box culvert. This design accommodates the required hydraulic capacity (55 cfs), minimizes excavation requirements, retains alternate vehicular access along the replace in place section, and keeps this portion of the canal within its existing alignment. One challenge of this portion of the project is to maintain vehicular access across a drainage area for which the present canal employs an elevated flume. The Project team is exploring options to construct a short bridge, to construct an at-grade stream crossing, or to abandon the goal of providing vehicular access for through traffic.

Pipeline Section – After traversing the replace in place section, the SPUP transitions to buried, 60-inch diameter pipeline in a new 1.5 mile long alignment across portions of the San Pasqual Indian Reservation, easements across private parcels, and the public right-of-way in North Lake Wohlford Road. After considering alternate pipeline materials, the Project team favors welded steel pipe based on cost, constructability, maintenance considerations, and the likelihood of competitive bids in the southern California market. While the desilting basin is likely to remove the vast majority of settleable sediment, the design will include regular access points to allow cleaning, if necessary. The private easements needed for the pipeline have been secured.

Challenges for the pipeline design and construction include crossing a riparian area that is also encumbered by an open space easement in favor of the County of San Diego (County). The Project team plans to minimize environmental impacts in this section by constructing the pipeline in a 350-foot long tunnel. Mitigation credits to allow the County's vacation of its open space easement in the project area have been procured, and the easement vacation comes before the County Board of Supervisors at two meetings in April.

Canal Abandonment and Rehabilitation – When completed, the SPUP will permanently decommission about 2 miles of existing canal, 6,000 feet of which are located on the San Pasqual Indian Reservation, the remaining located within private easements. The San Luis Rey Indian Water Rights Implementing Agreement requires that those portions of canal that are abandoned on Reservation lands be reclaimed and the easements be quitclaimed to the United States. Two challenges for this portion of the project include managing modified drainage patterns and minimizing and mitigating impacts to oak woodlands. The project approach involves removing the upper portion of the concrete canal lining, breaking up the remaining lining and leaving it in place, and backfilling the canal to create a surface water drainage course designed to flow toward existing drainage features. Details of this approach are under discussion with the San Pasqual Band.

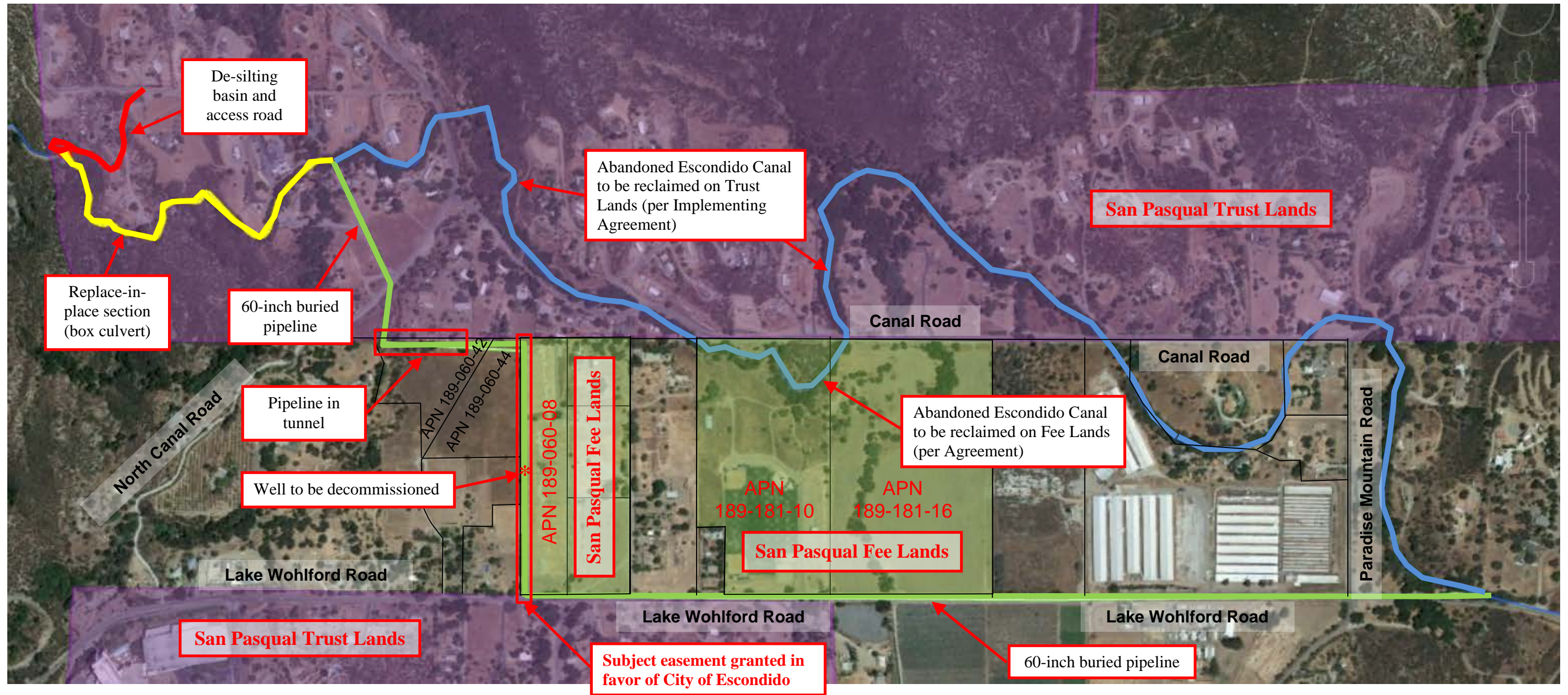
Challenging aspects of this project, including tunneling and the structural challenges of the desilting basin and its access road, have increased the estimated project construction costs. The current design effort (\$1.5 million) is proceeding on budget, and the 60 percent construction cost estimate is \$30.6 million (previously estimated at \$25.2 million), not including canal abandonment and rehabilitation. With allowances for canal abandonment and rehabilitation (\$5 million) and construction management (\$3 million), the total design and construction cost is estimated at just over \$40 million to be split equally between the City and District. The project design is projected to be complete in October 2020 with construction taking place between March 2021 and May 2022. The project is required to be complete by May 17, 2023 (Project Schedule, attached).

Staff from the City will be present at the Board meeting to answer questions.

ATTACHMENTS:

San Pasqual Undergrounding Project Overview Figure

San Pasqual Undergrounding Project Schedule



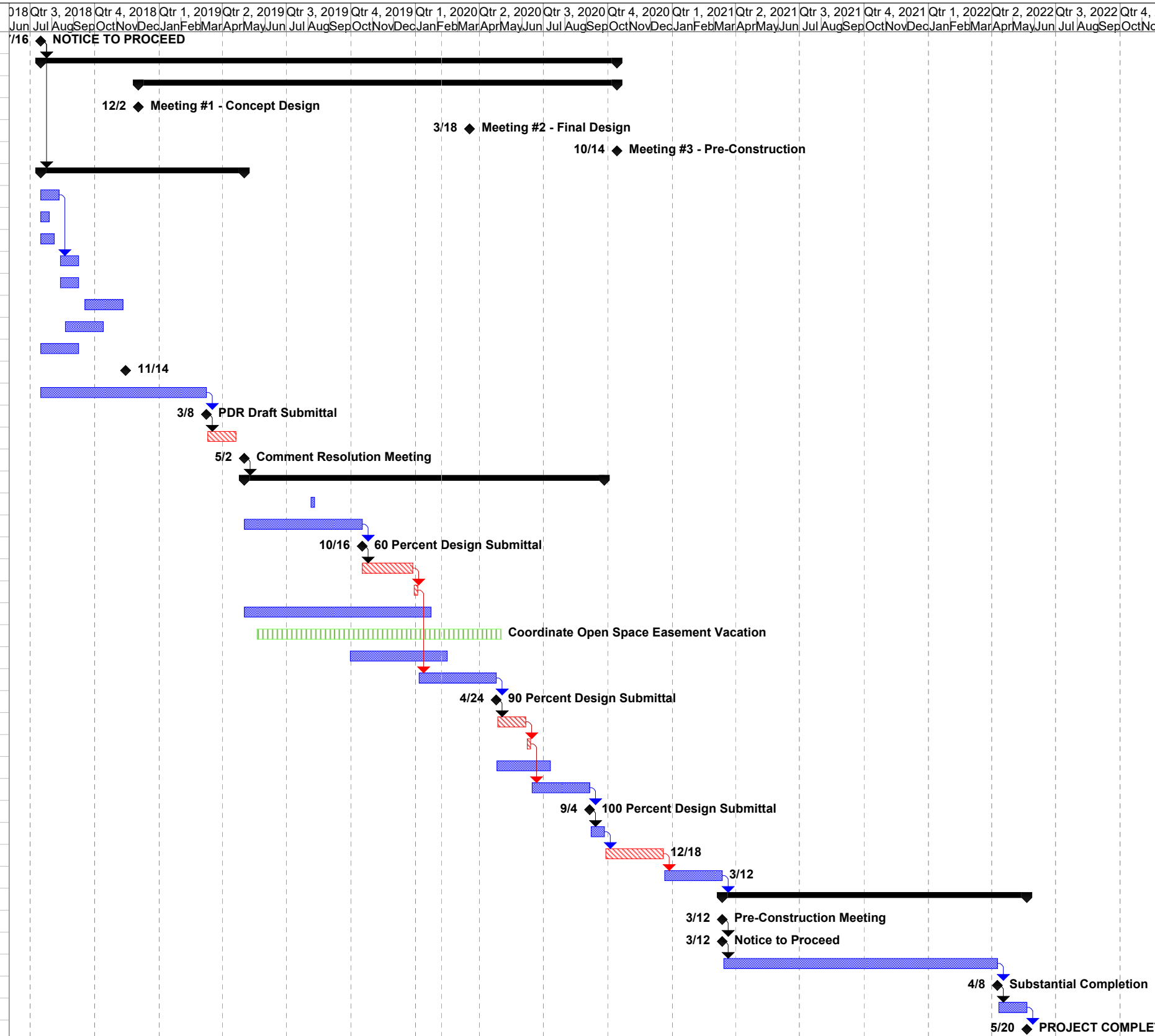
Scale: 1" ≈ 525 ft

**San Pasqual
Undergrounding Project
Overview Figure**

**CITY OF ESCONDIDO
SAN PASQUAL CANAL UNDERGROUNDING PROJECT**

PROJECT SCHEDULE

ID	Task Name	Duration	Start	Finish	Predecessors
1	NOTICE TO PROCEED	0 days	Mon 7/16/18	Mon 7/16/18	
2	DESIGN PHASE	587 days	Mon 7/16/18	Wed 10/14/20	1
3	COMMUNITY MEETINGS	487 days	Sun 12/2/18	Wed 10/14/20	
4	Meeting #1 - Concept Design	0 days	Sun 12/2/18	Sun 12/2/18	
5	Meeting #2 - Final Design	0 days	Wed 3/18/20	Wed 3/18/20	
6	Meeting #3 - Pre-Construction	0 days	Wed 10/14/20	Wed 10/14/20	
7	PRELIMINARY DESIGN PHASE	208 days	Mon 7/16/18	Thu 5/2/19	1
8	Aerial Survey	20 days	Mon 7/16/18	Fri 8/10/18	
9	Right-of-Way Mapping	10 days	Mon 7/16/18	Fri 7/27/18	
10	Utility Research	15 days	Mon 7/16/18	Fri 8/3/18	
11	Complete Base Mapping	20 days	Mon 8/13/18	Fri 9/7/18	8
12	Field Investigation	20 days	Mon 8/13/18	Fri 9/7/18	
13	System Hydraulics Analysis	40 days	Mon 9/17/18	Fri 11/9/18	
14	Hydrology Study	40 days	Mon 8/20/18	Fri 10/12/18	
15	Geotechnical Study	40 days	Mon 7/16/18	Fri 9/7/18	
16	Concept Design Workshop	0 days	Wed 11/14/18	Wed 11/14/18	
17	Preliminary Design Report Development	170 days	Mon 7/16/18	Fri 3/8/19	
18	PDR Draft Submittal	0 days	Fri 3/8/19	Fri 3/8/19	17
19	PDR Draft Review by City and VID	30 days	Mon 3/11/19	Fri 4/19/19	18
20	Comment Resolution Meeting	0 days	Thu 5/2/19	Thu 5/2/19	
21	FINAL DESIGN	367 days	Thu 5/2/19	Fri 9/25/20	20
22	Workshop with Tribe	5 days	Mon 8/5/19	Fri 8/9/19	
23	60 Percent Design Development	120 days	Thu 5/2/19	Wed 10/16/19	
24	60 Percent Design Submittal	0 days	Wed 10/16/19	Wed 10/16/19	23
25	60 Percent Review by City and VID	52 days	Thu 10/17/19	Fri 12/27/19	24
26	Comment Resolution Meeting	5 days	Mon 12/30/19	Fri 1/3/20	25
27	Coordinate with Environmental	190 days	Thu 5/2/19	Wed 1/22/20	
28	Coordinate Open Space Easement Vacation	250 days	Mon 5/20/19	Fri 5/1/20	
29	Coordinate with Property Owners	100 days	Mon 9/30/19	Fri 2/14/20	
30	90 Percent Design Development	80 days	Mon 1/6/20	Fri 4/24/20	26
31	90 Percent Design Submittal	0 days	Fri 4/24/20	Fri 4/24/20	30
32	90 Percent Review by City and VID	30 days	Mon 4/27/20	Fri 6/5/20	31
33	Comment Resolution Meeting	5 days	Mon 6/8/20	Fri 6/12/20	32
34	County Permitting	55 days	Sun 4/26/20	Fri 7/10/20	
35	100 Percent Design Development	60 days	Mon 6/15/20	Fri 9/4/20	33
36	100 Percent Design Submittal	0 days	Fri 9/4/20	Fri 9/4/20	35
37	Finalize Bid Documents	15 days	Mon 9/7/20	Fri 9/25/20	36
38	CONTRACT PROCESSING FOR BID	60 days	Mon 9/28/20	Fri 12/18/20	37
39	PHASE B - BID & AWARD PHASE	60 days	Mon 12/21/20	Fri 3/12/21	38
40	PHASE C - CONSTRUCTION PHASE	310 days	Fri 3/12/21	Fri 5/20/22	39
41	Pre-Construction Meeting	0 days	Fri 3/12/21	Fri 3/12/21	
42	Notice to Proceed	0 days	Fri 3/12/21	Fri 3/12/21	41
43	Construction Phase	280 days	Mon 3/15/21	Fri 4/8/22	42
44	Substantial Completion	0 days	Fri 4/8/22	Fri 4/8/22	43
45	Punch List Items	30 days	Mon 4/11/22	Fri 5/20/22	44
46	PROJECT COMPLETE	0 days	Fri 5/20/22	Fri 5/20/22	45



Project: Progress Schedule
Date: Fri 2/7/20

MBI Task City Task Milestone ◆ Summary



STAFF REPORT

Board Meeting Date: February 18, 2020
Prepared By: Randy Whitmann
Approved By: Brett Hodgkiss

SUBJECT: MAIN REPLACEMENT PROGRAM

RECOMMENDATION: Receive informational report on the District’s Main Replacement Program.

PRIOR BOARD ACTION: In 1995, the Board established funding for an ongoing program to replace aging water mains throughout the distribution system; the Board received updates on the program in 2002, 2014 and 2016.

FISCAL IMPACT: \$2.5 million is included in the fiscal year 2020 budget for the Main Replacement Program.

SUMMARY: The goal of the Main Replacement Program is to replace pipelines before they reach the end of their useful life and become a maintenance liability and to replace pipelines due to street realignments and/or improvements. Since its inception, more than 35 miles of pipe have been replaced, ranging in size from 2 inches to 20 inches.

DETAILED REPORT: Of the District’s 430 miles of water mains, approximately 130 miles were installed prior to 1970. These 130 miles of pipeline are comprised of approximately 43 miles of various types of steel pipe and 87 miles of asbestos cement (AC) pipe. Attached are a map showing the location and age breakdown of these mains throughout the District and a chart showing the type of pipe remaining in the distribution system by decade of installation.

Starting in 2002, the District has focused on replacing a specific brand of AC pipe installed in the 1960s, known as Nipponite. Breaks on this type of pipe have been more frequent and catastrophic than on other pipe material. District crews have replaced over nine miles of Nipponite pipe, and there are less than seven miles remaining. Each segment of Nipponite pipe has been assigned a risk category based on location and pressure as summarized below (and shown on the attached map); based on this assessment, approximately one-half of the remaining Nipponite pipe is considered to have a medium to high risk.

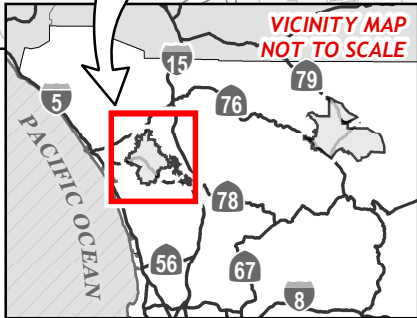
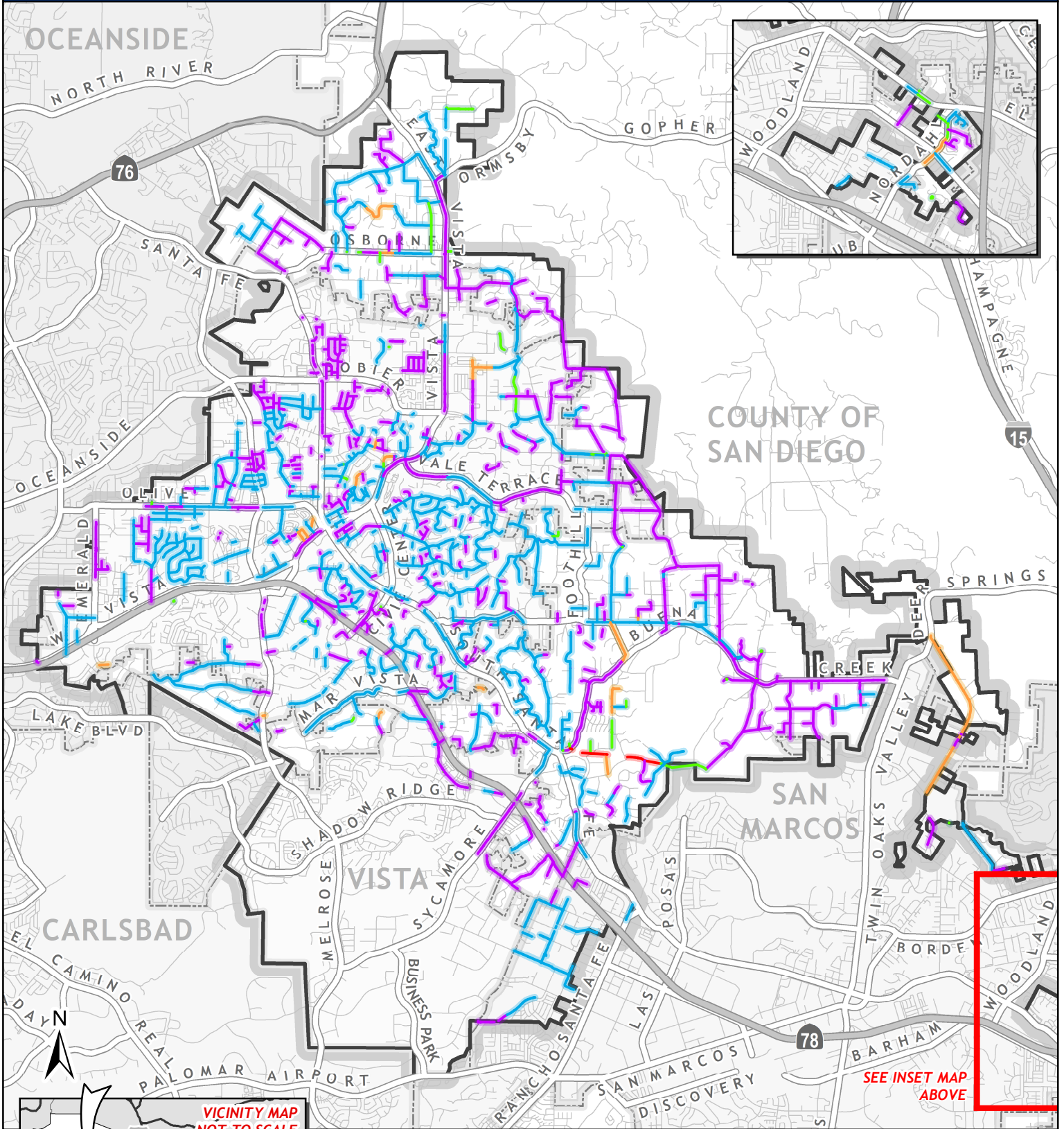
Diameter	Miles of Nipponite Pipe Remaining			
	Risk			Total
	High	Medium	Low	
4-inch	0.04	0.33	0.10	0.47
6-inch	0.00	0.10	0.69	0.79
8-inch	0.99	1.30	1.20	3.49
10-inch	0.45	0.14	0.53	1.12
12-inch	0.00	0.00	0.90	0.90
Total	1.48	1.87	3.42	6.77

The District’s Water Master Plan (Master Plan) was updated in 2018 and included a detailed pipeline condition assessment that provided risk estimates for the District’s water distribution pipelines based on leak history in conjunction with data from the District’s geographical information system, including material, age, soil type, diameter, roadway type, tap count, flow, and system pressure. Attached is the resulting risk assessment map from the Master Plan, which provides the District another tool for pipeline replacement prioritization. The Master Plan also recommended improving future condition assessment updates by collecting and testing pipeline field samples when there is an opportunity from other activities (e.g., during valve replacements, leak

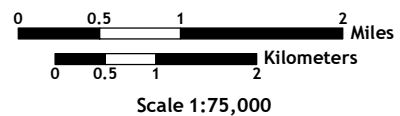
and break response, service installations, new pipeline tie-ins, etc.). District staff is pursuing this next phase of data collection to enhance the program, and future pipeline condition assessments will provide increased confidence that the District is replacing the right pipeline at the right time.

ATTACHMENTS: Pipeline Installation by Decade Map
Type of Pipe in the Current System by Decade Installed
Nipponite Risk Assessment Map
Water Master Plan Risk Assessment Map

PIPELINE INSTALLATION BY DECADE



- Pipeline Installation Periods**
- Unknown
 - 1930-1939
 - 1940-1949
 - 1950-1959
 - 1960-1969
 - VID Boundary
Valid as of 1/28/2020

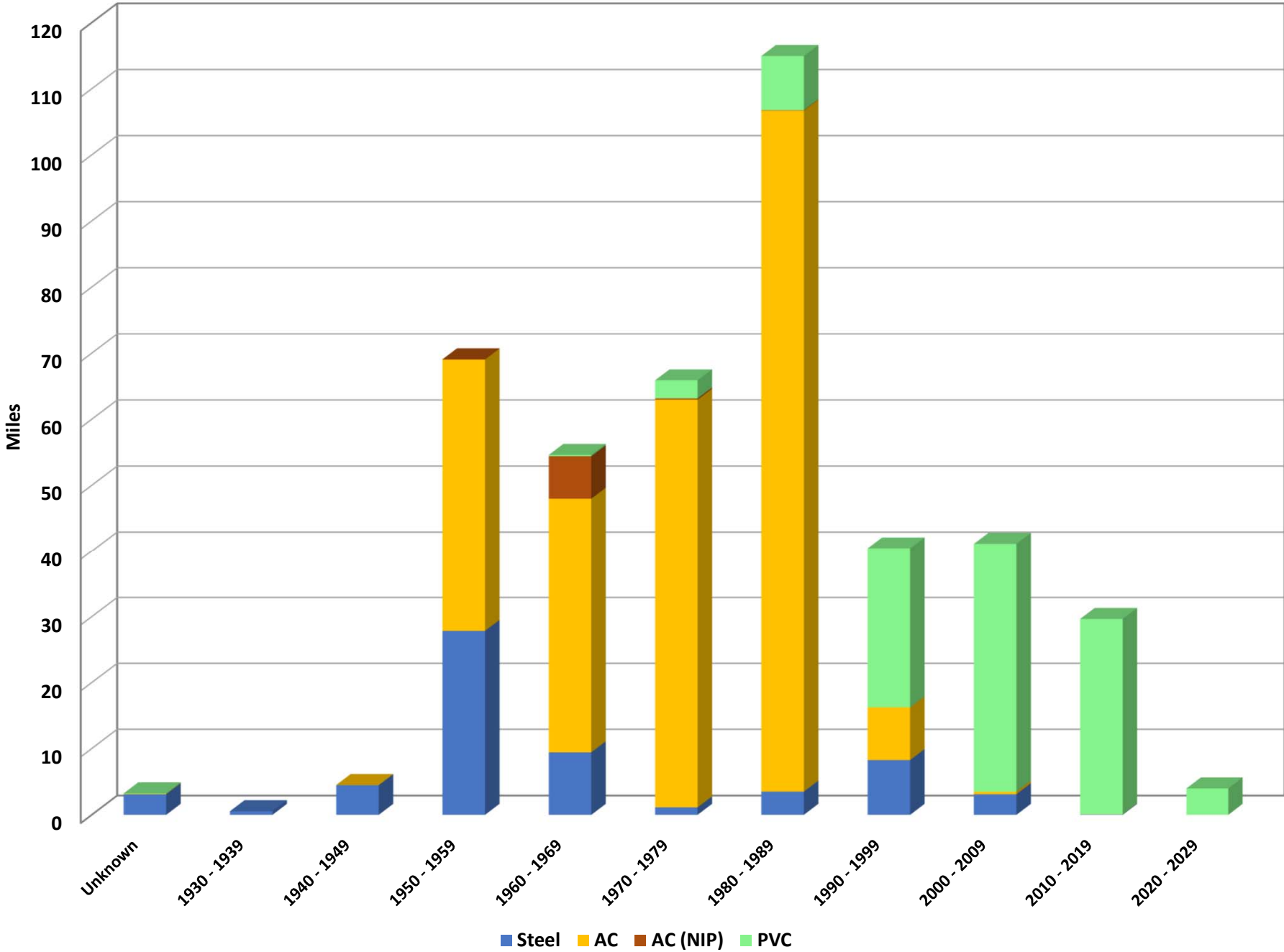


DISCLAIMER: The Vista Irrigation District makes no representation or warranties regarding the accuracy of this map nor the data from which the map was derived. The Vista Irrigation District shall not be liable under any circumstances for any direct, indirect, special, incidental or consequential damages with respect to any claim by any user or any third party on account of or arising from the use of this map.

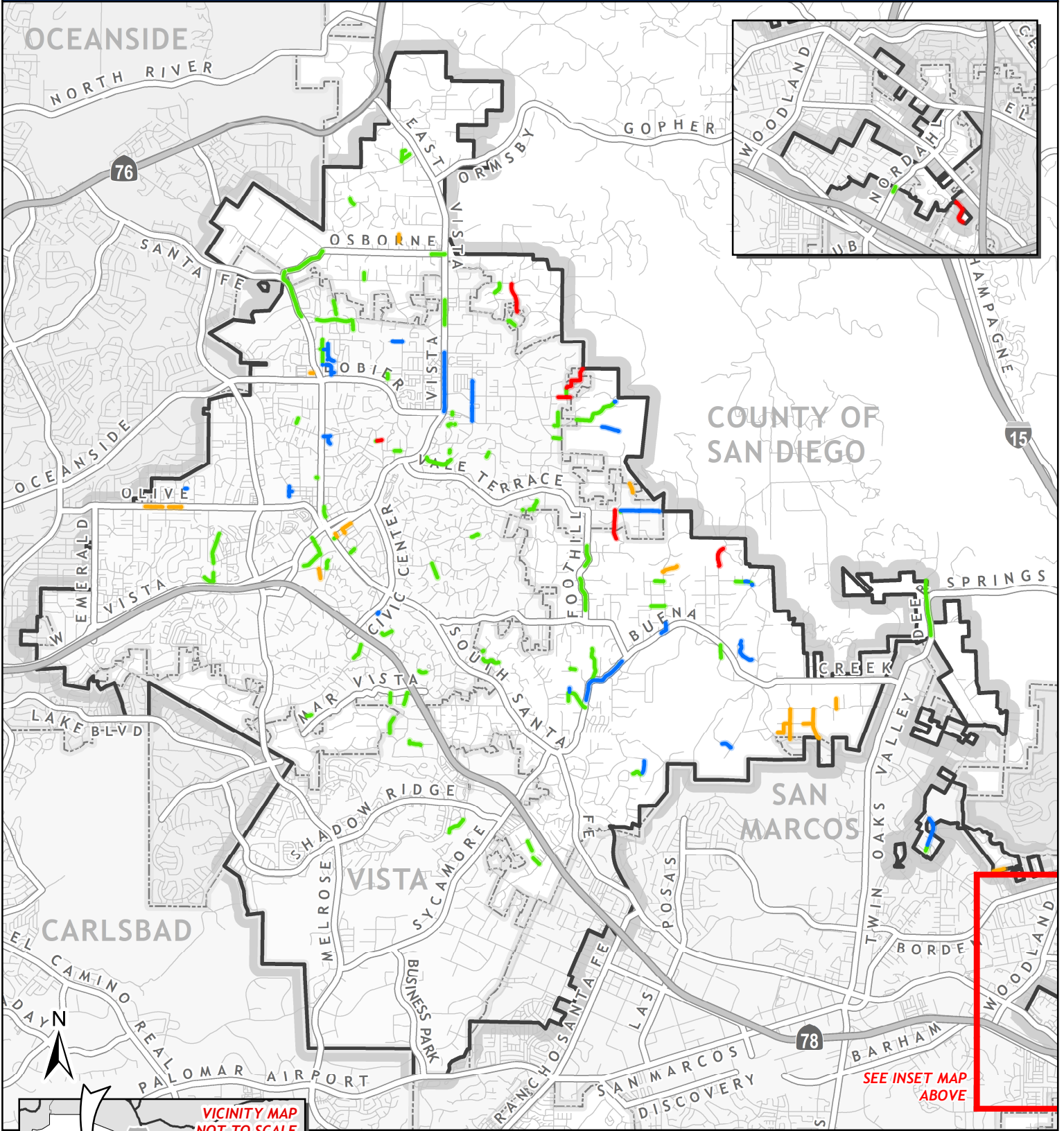
NOTE: GIS data derived, modified, reduced, and/or processed from SanGIS/SANDAG downloadable data - www.sanGIS.org

Document: PIPELINE_INSTALLATION_BY_DECADE_FINAL Printed on: 2/6/2020

TYPE OF PIPE IN THE CURRENT SYSTEM BY DECADE INSTALLED



NIPPONITE RISK ASSESSMENT



**Active Nipponite Pipelines
January 2020**

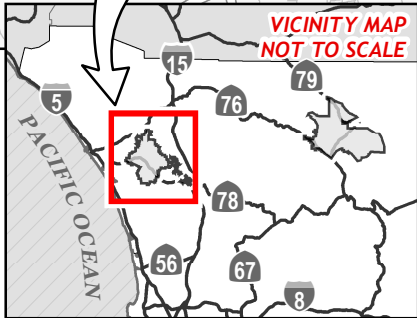
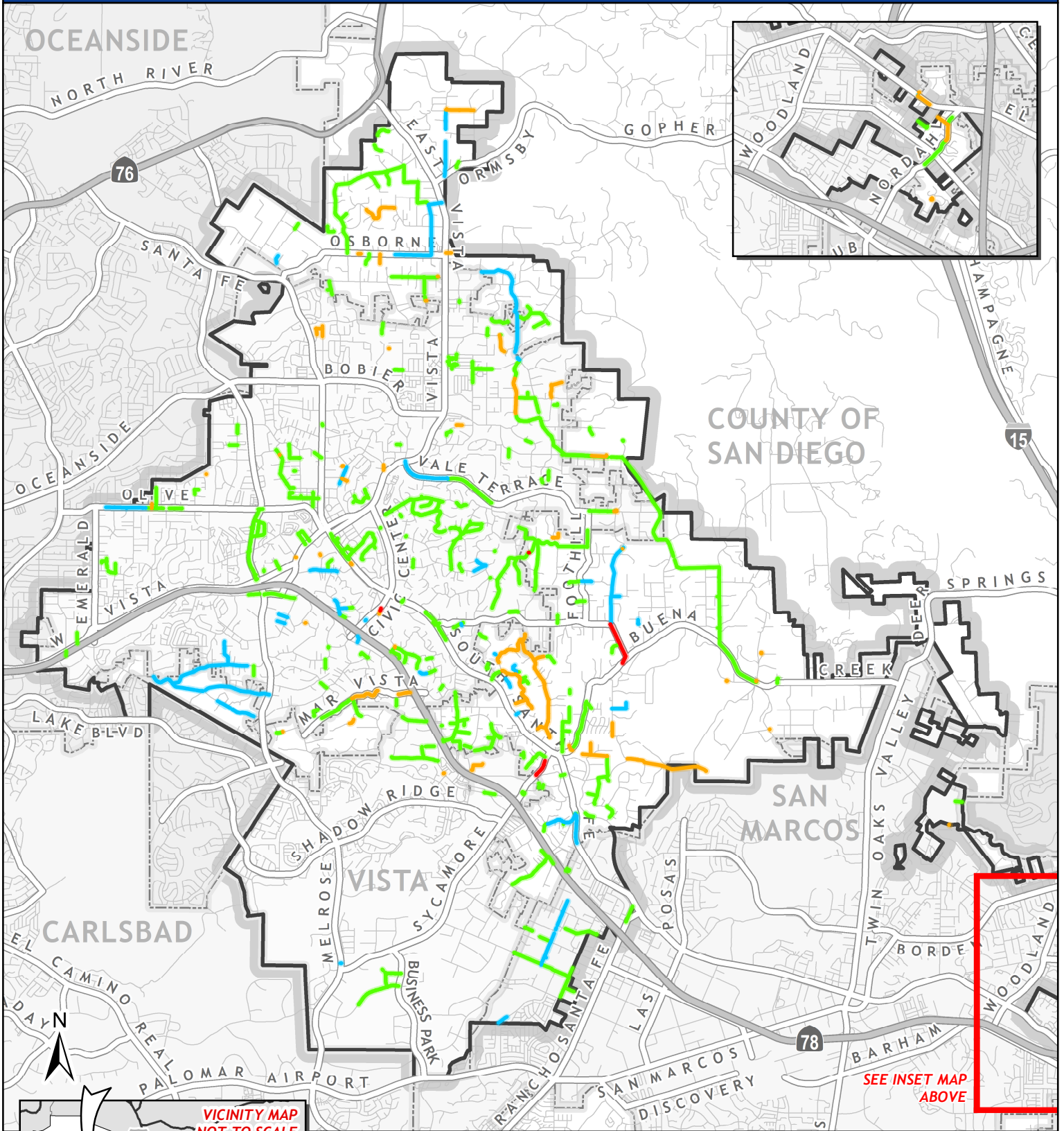
Risk	Miles	Risk	Miles
High	1.48	Low	3.42
Medium	1.87	Abandoned	
VID Boundary			

Valid as of 1/28/2020



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Document: NIPPONITE RISK ASSESSMENT FINAL Printed on: 2/6/2020

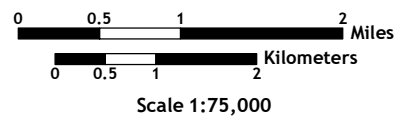
WATER MASTER PLAN RISK ASSESSMENT



Pipeline Risk Score

Risk	Miles	Risk	Miles
20 - 30	33.4	40 - 50	6.7
30 - 40	9.3	> 50	0.6

Note that 379.1 miles of pipeline with a risk score less than 20 are not displayed



DISCLAIMER: The Vista Irrigation District makes no representation or warranties regarding the accuracy of this map nor the data from which the map was derived. The Vista Irrigation District shall not be liable under any circumstances for any direct, indirect, special, incidental or consequential damages with respect to any claim by any user or any third party on account of or arising from the use of this map.

NOTE: GIS data derived, modified, reduced, and/or processed from SanGIS/SANDAG downloadable data - www.sanGIS.org

Document: WATER MASTER PLAN RISK ASSESSMENT FINAL Printed on: 2/16/2020



STAFF REPORT

Agenda Item: 9

Board Meeting Date: February 18, 2020
Prepared By: Randy Whitmann
Approved By: Brett Hodgkiss

SUBJECT: OPPORTUNITY-BASED PIPELINE CONDITION ASSESSMENT PROGRAM

RECOMMENDATION: Receive informational report on the development of an opportunity-based pipeline condition assessment program.

PRIOR BOARD ACTION: On April 18, 2018, the Board received and filed the Water Master Plan prepared by HDR Engineering, Inc.

FISCAL IMPACT: Initial project development is estimated to cost up to \$50,000 and was included in the fiscal year 2020 budget. Future annual costs to implement the program and begin testing pipeline samples will depend on the number of opportunities there are to expose existing pipelines from other activities. Each test is estimated to cost between \$500 and \$1,500 depending on the size of the pipe sample and between 50 and 75 opportunities per year are currently estimated.

SUMMARY: The District's Water Master Plan (Master Plan) included a detailed pipeline condition assessment that provided risk estimates for the District's water distribution pipelines based on leak history and data from the District's geographical information system (GIS). One of the recommendations in the Master Plan to improve future condition assessment updates was to begin collecting and testing pipeline field samples when there is an opportunity from other activities (e.g., during valve replacements, leak and break response, service installations, new pipeline tie-ins, etc.). This form of field condition assessment is much less costly and disruptive than proactive assessment, which exposes pipelines for the sole purpose of sampling and testing.

DETAILED REPORT: The pipeline condition assessment performed in the Master Plan calculated risk based on several factors including historical leaks, material, age, soil type, diameter, roadway type, tap count, flow, and system pressure. While this provides the District a great tool to focus the pipeline replacement program, additional efforts in field-testing and data collection can enhance the program. Future pipeline condition assessments can provide increased confidence that the District is replacing the right pipeline at the right time and insight into whether additional investment levels (in the main replacement program) may be warranted in the future.

On average, the District currently replaces approximately two miles of pipeline per year. With over 400 miles of pipeline in the ground, this rate translates to taking over 200 years to replace the entire water system. Approximately 60 percent of the District's system is asbestos cement (AC) pipe, and one of the unknowns is its current condition and potential remaining lifespan. While whitepaper reports indicate that AC pipe can last well into the hundreds of years under ideal conditions, actual field-testing would provide a basis of prediction based on site-specific deterioration rates.

The primary factor for AC pipe corrosion in California is calcium leaching. Calcium leaching follows a two-step process as documented in *Water Research Foundation Project 4480 – Development of an Effective Strategy for Asbestos Cement Pipe*:

- Step 1 – Conversion of free lime ($\text{Ca}(\text{OH})_2$) to calcium carbonate (CaCO_3)
- Step 2 – Calcium carbonate dissolution and transported away

Step 1 (i.e. carbonation) is fine for AC pipe, but in Step 2, the calcium within the wall dissolves and results in a loss of strength. A common and inexpensive method to assess Step 1 is through phenolphthalein testing (i.e., stain test), which quickly shows where carbonation has not occurred by turning the material pink. However, stain testing often under-estimates the true strength and life of the pipeline when Step 1 occurs but not Step 2. A more accurate process is to measure corrosion directly (Step 2) using energy dispersive X-ray spectroscopy (EDS) testing, which shows the true condition of AC pipe by determining the remaining calcium levels in carbonated pipe sections. This testing method has been verified through comparisons with other sources, including pipeline crush strength testing. Examples illustrating these testing results are shown on the attached figure.

Staff proposes entering into a professional services agreement with HDR Engineering, Inc. for as-needed pipeline condition assessment services in an amount not-to-exceed \$50,000 for fiscal year 2020. The first task order will include initial program development covering assessment workflow and operating procedures; sample collection, logging, and storage procedures; laboratory selection, testing, and frequency; and budget estimating support. Assistance will also be needed to define which testing data to collect, GIS integration, data interpretation, estimating remaining useful life, and determining when proactive assessment may be required. Actual testing would begin in fiscal year 2021 and last multiple years. Once enough data is collected, it can be leveraged in another system-wide pipeline condition assessment where the extents and timing of future replacement projects will be determined based on test results in concert with the spatial location of other pertinent data (e.g., original construction job number, break records, soil type, constructability constraints, and other EDS test results).

ATTACHMENT: Test Results Figure

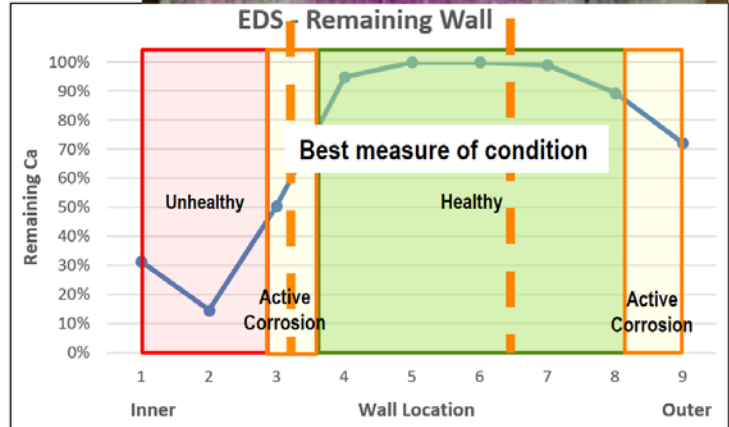
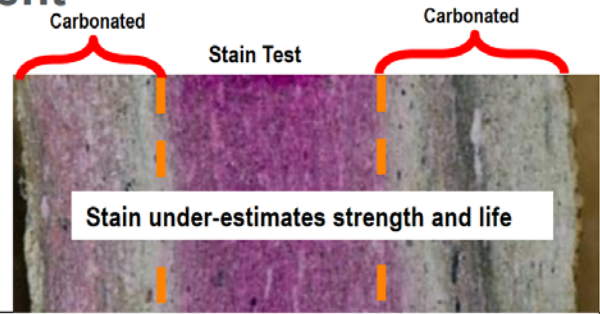
AC Pipe Corrosion & Measurement

Step 1: Carbonation (**Fine** for AC)

- Precursor to deterioration

Step 2: Dissolve & Carry Away Ca (**Bad**)

- Loss of strength



AC Pipe Corrosion & Measurement

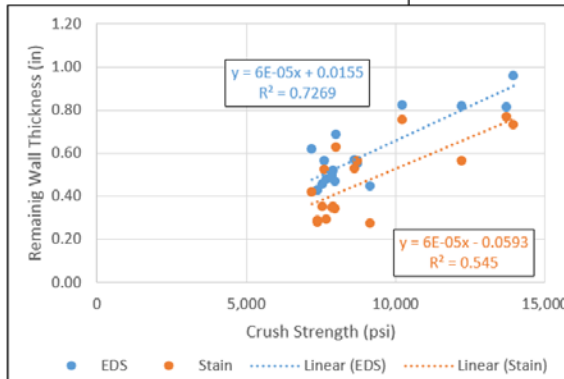
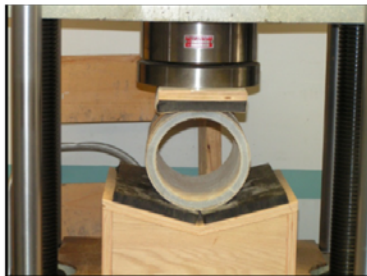
Step 1: Carbonation (**Fine** for AC)

- Precursor to deterioration

Step 2: Dissolve & Carry Away Ca (**Bad**)

- Loss of strength

Verified by several sources:



Tailored Collaboration

Development of an Effective Management Strategy for Asbestos Cement Pipe





Agenda Item: 10

STAFF REPORT

Board Meeting Date: February 18, 2020
Prepared By: Brett Hodgkiss

SUBJECT: MATTERS PERTAINING TO THE ACTIVITIES OF THE SAN DIEGO COUNTY WATER AUTHORITY

SUMMARY: Informational report by staff and directors concerning the San Diego County Water Authority. No action will be required.



STAFF REPORT

Agenda Item: 11.A

Board Meeting Date: February 18, 2020
Prepared By: Lisa Soto
Approved By: Brett Hodgkiss

SUBJECT: REPORTS ON MEETINGS AND EVENTS ATTENDED BY DIRECTORS

SUMMARY: Directors will present brief reports on meetings and events attended since the last Board meeting.



STAFF REPORT

Agenda Item: 11.B

Board Meeting Date: February 18, 2020
Prepared By: Lisa Soto
Approved By: Brett Hodgkiss

SUBJECT: SCHEDULE OF UPCOMING MEETINGS AND EVENTS

SUMMARY: The following is a listing of upcoming meetings and events. Requests to attend any of the following events should be made during this agenda item.

	SCHEDULE OF UPCOMING MEETINGS AND EVENTS	ATTENDEES
1	Urban Water Institute’s Spring Water Conference <i>Feb. 19-21, 2020; Hilton Palm Springs</i> <i>Registration deadline: Available at door on space available basis</i>	Vásquez (R, H)
2 *	CSDA Quarterly Dinner Meeting <i>Feb. 20, 2020, 6:00-9:00 p.m.; The Butcher Shop Steakhouse, Kearny Mesa</i> <i>Reservation deadline: 2/18/20</i>	
3	Lower Colorado River Tour Field Trip (Water Education Foundation) <i>March 11-13, 2020; Begins in Las Vegas, ends at Ontario International Airport</i> <i>Reservation deadline: 3/4/20</i>	
4	ACWA Legislative Symposium <i>Mar. 12, 2020; Sutter Club, Sacramento</i> <i>Registration deadline: 3/6/20</i>	
5 *	Council of Water Utilities Meeting <i>Mar. 17, 2020; The Butcher Shop Steakhouse, Kearny Mesa</i> <i>Reservation deadline: 3/12/20</i>	
6	Special District Leadership Academy (CSDA) (Advanced track available) <i>Apr. 19-22, 2020; San Diego</i> <i>Registration deadline: 3/19/20</i>	
7 *	Council of Water Utilities Meeting <i>April 21, 2020; The Butcher Shop Steakhouse, Kearny Mesa</i> <i>Reservation deadline: 4/16/20</i>	
8	Central Valley Water Tour Field Trip (Water Education Foundation) <i>April 22-24, 2020; Begins and ends at Sacramento International Airport</i> <i>Reservation deadline: 3/10/20</i>	
9	ACWA Spring Conference <i>May 5-8, 2020; Monterey</i> <i>Registration deadline: 2/24/2020</i>	MacKenzie (R) Vásquez (R) Dorey (R) Sanchez (R)
10 *	Council of Water Utilities Meeting <i>May 19, 2020; The Butcher Shop Steakhouse, Kearny Mesa</i> <i>Reservation deadline: 5/14/20</i>	
11	Special Districts Legislative Days (CSDA) <i>May 19-20, 2020; Sheraton Grand Sacramento</i> <i>Registration deadline: 4/20/20</i>	MacKenzie (R, H)
12 *	CSDA Quarterly Dinner Meeting <i>May 21, 2020, 6:00-9:00 p.m.; The Butcher Shop Steakhouse, Kearny Mesa</i> <i>Reservation deadline: 5/14/20</i>	MacKenzie
13	Bay Delta Tour Field Trip (Water Education Foundation) <i>June 3-5, 2020; Begins and ends at Sacramento International Airport</i> <i>Reservation deadline: 4/21/20</i>	

	SCHEDULE OF UPCOMING MEETINGS AND EVENTS	ATTENDEES
14	Third Annual Groundwater Sustainability Summit (GRA) <i>June 10-11, 2020; Hilton Sacramento Arden West</i> <i>Registration deadline: TBD</i>	
15 *	Council of Water Utilities Meeting <i>June 16, 2020; The Butcher Shop Steakhouse, Kearny Mesa</i> <i>Reservation deadline: 6/11/20</i>	
16 *	Council of Water Utilities Meeting <i>July 21, 2020; The Butcher Shop Steakhouse, Kearny Mesa</i> <i>Reservation deadline: 7/16/20</i>	
17 *	Council of Water Utilities Meeting <i>DARK IN AUGUST</i>	
18	Urban Water Institute Annual Water Conference <i>Aug. 19-21, 2020; Hilton San Diego</i> <i>Registration deadline: TBD</i>	
19 *	CSDA Quarterly Dinner Meeting <i>Aug. 20, 2020, 6:00-9:00 p.m.; The Butcher Shop Steakhouse, Kearny Mesa</i> <i>Reservation deadline: 8/13/20</i>	
20	CSDA Annual Conference <i>Aug. 24-27, 2020; Palm Desert</i> <i>Registration deadline: 7/24/20</i>	
21	Headwaters Tour Field Trip (Water Education Foundation) <i>Sept. 10-11, 2020; Begins and ends in Sacramento area</i> <i>Reservation deadline: 7/29/20</i>	
22	Third Annual Western Groundwater Congress <i>Sept. 14-16, 2020; Burbank, CA</i> <i>Reservation deadline: TBD</i>	
23 *	Council of Water Utilities Meeting <i>Sept. 15, 2020; The Butcher Shop Steakhouse, Kearny Mesa</i> <i>Reservation deadline: 9/10/20</i>	
24	2020 Water Summit (Water Education Foundation) <i>Sept. 24, 2020; Sacramento</i> <i>Registration deadline: TBD</i>	
25	Special District Leadership Academy (CSDA) <i>(Advanced track available)</i> <i>Sept. 27-30, 2020; South Lake Tahoe</i> <i>Registration deadline: 8/28/20</i>	
26	San Joaquin River Restoration Tour Field Trip (Water Education Foundation) <i>Sept. 30-Oct. 1, 2020; Begins and ends in Fresno</i> <i>Reservation deadline: 8/18/20</i>	
27	Northern California Tour Field Trip (Water Education Foundation) <i>Oct. 14-16, 2020; Begins and ends at Sacramento International Airport</i> <i>Reservation deadline: 9/1/20</i>	
28 *	Council of Water Utilities Meeting <i>Oct. 20, 2020; The Butcher Shop Steakhouse, Kearny Mesa</i> <i>Reservation deadline: 10/15/20</i>	
29 *	CSDA Quarterly Dinner Meeting <i>Nov. 19, 2020, 6:00-9:00 p.m.; The Butcher Shop Steakhouse, Kearny Mesa</i> <i>Reservation deadline: 11/12/20</i>	
30 *	Council of Water Utilities Meeting <i>Nov. 17, 2020; The Butcher Shop Steakhouse, Kearny Mesa</i> <i>Reservation deadline: 11/12/20</i>	
31 *	Council of Water Utilities Meeting <i>DARK IN DECEMBER</i>	
32	ACWA Fall Conference <i>Dec. 1-4, 2020; Indian Wells; Registration deadline: TBD</i>	

	SCHEDULE OF UPCOMING MEETINGS AND EVENTS	ATTENDEES
33	Colorado River Water Users Association Conference (CRWUA) <i>Dec. 14-16, 2020; Las Vegas; Registration deadline: TBD</i>	

* Non-per diem meeting except when serving as an officer of the organization

The following abbreviations indicate arrangements that have been made by staff:

R=Registration; **H**=Hotel; **A**=Airline; **S**=Shuttle; **C**=Car; **T**=Tentative



Agenda Item: 12

STAFF REPORT

Board Meeting Date: February 18, 2020
Prepared By: Lisa Soto

SUBJECT: ITEMS FOR FUTURE AGENDAS AND/OR PRESS RELEASES

SUMMARY: This item is placed on the agenda to enable the Board to identify and schedule future items for discussion at upcoming Board meetings and/or identify press release opportunities.

Staff-generated list of tentative items for future agendas:

- Water Supply Planning Study
- San Luis Rey Watershed Council participation
- Warner Wellfield Assessment



Agenda Item: 13

STAFF REPORT

Board Meeting Date: February 18, 2020
Prepared By: Lisa Soto

SUBJECT: COMMENTS BY DIRECTORS

SUMMARY: This item is placed on the agenda to enable individual Board members to convey information to the Board and the public not requiring discussion or action.



Agenda Item: 14

STAFF REPORT

Board Meeting Date: February 18, 2020
Prepared By: Brett Hodgkiss

SUBJECT: COMMENTS BY GENERAL COUNSEL

SUMMARY: Informational report by the General Counsel on items not requiring discussion or action.



Agenda Item: 15

STAFF REPORT

Board Meeting Date: February 18, 2020
Prepared By: Brett Hodgkiss

SUBJECT: COMMENTS BY GENERAL MANAGER

SUMMARY: Informational report by the General Manager on items not requiring discussion or action.