

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

October 2, 2019

A Regular Meeting of the Board of Directors of Vista Irrigation District was held on Wednesday, October 2, 2019 at the offices of the District, 1391 Engineer Street, Vista, California.

1. CALL TO ORDER

President MacKenzie called the meeting to order at 8:30 a.m.

2. ROLL CALL

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

Directors absent: None.

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

Other attendees: None.

3. PLEDGE OF ALLEGIANCE

Director Vásquez led the pledge of allegiance.

4. APPROVAL OF AGENDA

19-10-104	<i>Upon motion by Director Vásquez, seconded by Director Dorey and unanimously carried (5 ayes: Miller, Vásquez, Dorey, Sanchez, and MacKenzie), the Board of Directors approved the agenda as presented.</i>
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5. PUBLIC COMMENT TIME

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

6. CONSENT CALENDAR

19-10-105	<i>Upon motion by Director Dorey, seconded by Director Miller and unanimously carried (5 ayes: Miller, Vásquez, Dorey, Sanchez, and MacKenzie), the Board of Directors approved the Consent Calendar, including Resolution No. 19-28 approving disbursements.</i>
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A. Acceptance of Water System

See staff report attached hereto. Staff recommended and the Board accepted the water system for an industrial development project known as Keystone Innovation Center, consisting of approximately 10.3 gross acres developed by Badiie Development, LLC, located at 1347 and 1349 Keystone Way, Vista (I-3077; APN 221-011-19 DIV NO 5).

B. Minutes of Board of Directors meeting on September 18, 2019

The minutes of September 18, 2019 were approved as presented.

C. Resolution ratifying check disbursements

RESOLUTION NO. 19-28

BE IT RESOLVED, that the Board of Directors of Vista Irrigation District does hereby approve checks numbered 62612 through 62719 drawn on Union Bank totaling \$516,577.46.

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 2nd day of October 2019.

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7. DIVISION REPORTS

See staff report attached hereto.

Director of Operations and Field Services Frank Wolinski provided clarification regarding the Edgemoor (HP) Reservoir solar project stating that two 330 watt solar panels were installed (comparable to panels used residentially) to provide a consistent power supply for the Supervisory Control and Data Acquisition (SCADA) system. He commented that the solar projects at the Virginia Place (A) and the San Luis Rey reservoirs are similar and serve the same purpose.

General Manager Brett Hodgkiss updated the Board regarding the operations at Lake Henshaw stating that the recorded number of guests at the Lake Henshaw Resort are still a little low but operations are running smoothly. It was noted that the water level at Lake Henshaw had dropped below 5,000 acre-feet.

Director of Engineering Randy Whitmann updated the Board regarding the Buena Creek (HB) Reservoir rehabilitation project. He stated that the demolition of the roof would be a slow and methodical process, which resulted in it more expensive than the budgeted amount; the same contractor is also proposing on the main tank rehabilitation and is offering some value engineering options (that staff is exploring), which could bring cost savings to those components.

Mr. Hodgkiss stated that staff met with Helix Environmental at the Warner Ranch to discuss potential environmental constraints related to replacing the damaged concrete ditch sections in the wellfield. He stated that the main environmental concern is the Stephens' kangaroo rats (SKR) that live in the area. Due to the presence of SKR, the District will not be able to replace the ditch in place and in kind expediently. Staff is currently reviewing alternatives that will be less disturbing for the SKR, including installing a pipe inside the ditch and covering it with concrete. The Board discussed the matter briefly and Water Resources Specialist Mark Saltz provided clarification. Director Dorey suggested that the development of a Habitat Conservation Plan (HCP) could be beneficial in situations such as this; Mr. Hodgkiss suggested that perhaps this could be considered when the District prepares its wellfield master plan.

8. EDGEHILL(E) RESERVOIR REPLACEMENT AND PUMP STATION

See staff report attached hereto.

Mr. Whitmann presented an overview of the preliminary design report findings for the Edgehill (E) Reservoir replacement and pump station project (project). He stated that the Edgehill (E) Reservoir is a 1.5 million gallon (mg) tank built in 1929. Mr. Whitmann stated that the District's Master Plan identified a storage deficiency in the 752 Pressure Zone as well as a need for a new pump station at the site to increase operational flexibility. Since the Edgehill (E) Reservoir has reached the end of its useful life, its replacement with a larger tank and a new pump station would satisfy the deficiencies identified in the Master Plan. He stated that the engineering firm Dudek was engaged to provide planning, design and environmental services for the project.

Mr. Whitmann stated that due to the geotechnical findings of hard rock on the site lowering the floor of the reservoir to increase its storage volume would increase the cost of the project significantly. He stated that the top two reservoir design alternatives developed by Dudek were presented in the staff report (Alternative 3 and Alternative 1B) with the preferred alternative being Alternative 1B, a hexagon-shaped tank with a storage volume of 2.92 mgs; the increased storage volume would be achieved by raising the reservoir height by six feet. The cost of Alternative 1B is estimated at \$9.41 million.

Mr. Whitmann reviewed the potential operational benefits of constructing two smaller tanks (as presented in Alternative 3) versus one larger tank (as in Alternative 1B). He stated that staff also considered constructing two chambers within the hexagon-shaped tank, which would allow one chamber to remain operational while the other could be taken out of service for maintenance. Mr. Whitmann stated that additional infrastructure would be needed for two tanks or chambers, increasing the cost of the project significantly.

Mr. Whitmann reviewed Dudek's recommendations for the new pump station, noting that a capacity of 3,000 gallons per minutes (gpm) was selected for the pump station size to match the demands within the upper pressure zones. The pump station would be located at the base of the reservoir next to an existing building, which houses a pressure regulating station.

Mr. Whitmann stated that preliminary environmental assessments were completed as part of the preliminary design report, and the assessments indicate that no significant environmental impacts will occur from the project; it will likely require a mitigated negative declaration. He said that work on the final design of the project was currently underway with plans and specifications expected to be complete by spring 2020 and a contractor to be selected by mid-2020.

9. BOARD MEETING START TIMES

See staff report attached hereto.

The Board discussed the possibility of changing Board meeting start times, noting the practice each year of shifting several Board meeting start times to 9:00 a.m. to accommodate some of the conflicting 7:00 a.m. meetings of the North County Water Agencies. The consensus of the Board was that a slight change to the standard Board meeting start time from 8:30 a.m. to 9:00 a.m. could be beneficial.

The Board discussed the timing of the change and agreed to begin the 9:00 a.m. start times as of January 1, 2020. President MacKenzie suggested highlighting the change at the appropriate time on the District's website. It was noted that the Board meeting schedule for 2020 was planned to be presented for the Board's consideration at the next Board meeting on October 16, 2019; the Board requested that the 2020 Board meeting schedule be prepared to reflect the new 9:00 a.m. start time.

19-10-106 *Upon motion by Director Miller, seconded by Director Vásquez and unanimously carried (5 ayes: Miller, Vásquez, Dorey, Sanchez, and MacKenzie), the Board of Directors revised Section 1.4.1 of the District's Rules and Regulations, to change the Board meeting start times from 8:30 a.m. to 9:00 a.m., effective January 1, 2020.*

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

See staff report attached hereto.

Director Miller reported that the search for a new Water Authority General Manager is continuing with interviews scheduled for the following week. He stated that the hiring process is on track to be completed in November 2019.

Director Miller provided an update regarding the potential de-annexation of Fallbrook Public Utilities District and Rainbow Municipal Water District from the Water Authority. He noted that since most of the financial impacts are in San Diego County, most of the proceedings will be handled by the San Diego Local Agency Formation Commission rather than Riverside LAFCO.

Mr. Hodgkiss reported that he received an email update from Sandy Kerl, Acting General Manager of the Water Authority, regarding the Pipeline 4 emergency shutdown and repairs. In the email, Ms. Kerl indicated that the carbon fiber repair design was complete and the contractor was mobilizing to begin work on the repair. The repair work is estimated to take three to four weeks to complete; once complete, another shut down will be scheduled to remove the bulkheads and put Pipeline 4 back into service.

11. MEETINGS AND EVENTS

See staff report attached hereto.

Directors Miller and Sanchez stated that they plan to arrive at the Fall Association of California Water Agencies (ACWA) Conference in San Diego on Tuesday, December 3.

Director Dorey reported on his attendance at the Groundwater Resources Association 2nd Annual Western Groundwater Congress in Sacramento where the keynote speaker Melissa Marshall made a presentation on practical approaches for transforming technical presentations. He stated that this conference provides valuable information about evolving industry priorities and emerging strategies for the challenges facing agencies with groundwater resources.

Director Sanchez reported on his attendance at the California Special Districts Association Conference (CSDA) the previous week in Anaheim where he attended interesting and informative sessions on website compliance, financing new projects, manager and board relations, and general manager performance evaluations. He added that he found the legislative roundtable session to be well done and enlightening.

President MacKenzie reported on her attendance at the CSDA Conference where she too attended the session regarding website compliance. The Board had a brief discussion regarding website compliance related to the Americans with Disabilities Act as well as website analytics. Mr. Hodgkiss clarified that the District uses Google Analytics for this purpose; the analytics report shows that most of the traffic on District's website is related people seeking employment at the District and customers paying their water bills online.

President MacKenzie reported on her attendance at the CSDA Board of Directors Annual meeting, which included of a review of CSDA's finances. It was reported in the meeting that CSDA memberships are up to 1,200 members, and this year's conference had the largest attendance ever. She reported on her attendance at a Special District Leadership Foundation (SDLF) Board of Directors meeting which included a review of the SDLF finances. She also reported on her attendance at a meeting of the CSDA Finance Corporation Board of Directors where she was re-elected as President, and there was a discussion regarding financings and interest rates.

Director Vásquez and President MacKenzie both requested to attend the Association of California Water Agencies (ACWA) Region 9 Program on October 10, 2019 in Rancho Cucamonga.

19-10-107 *Upon motion by Director Miller, seconded by Director Dorey and unanimously carried (5 ayes: Miller, Vásquez, Dorey, Sanchez, and MacKenzie), the Board of Directors authorized Director Vásquez and President MacKenzie to attend the ACWA Region 9 Program on October 10, 2019 in Rancho Cucamonga.*

12. ITEMS FOR FUTURE AGENDAS AND/OR PRESS RELEASES

See staff report attached hereto.

President MacKenzie requested a press release regarding the District of Distinction, Platinum Level accreditation received by the District at the CSDA Conference the previous week.

President MacKenzie requested that the next Treasurer's Report be placed on the regular agenda for discussion (not the consent calendar). She asked that the report include information regarding the District's cash flow, including a listing of capital projects and their associated costs.

Mr. Hodgkiss stated that the first three items listed in the staff report, 2020 Board meeting dates, Fees and charges other than water rates, and Triennial Public Health Goal report, would all be on the October 16, 2019 Board agenda. He noted that the "Fees and charges other than water rates" and "Triennial Public Health Goal report" items would both be public hearings.

13. COMMENTS BY DIRECTORS

Director Vásquez stated that he recently spent time in Northern Arizona and was pleased to see signs along the highway promoting water conservation.

14. COMMENTS BY GENERAL MANAGER

None were presented.


15. ADJOURNMENT

There being no further business to come before the Board, at 10:00 a.m. President MacKenzie adjourned the meeting to October 16, 2019 at 8:30 a.m.



Jo MacKenzie, President

ATTEST:



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



STAFF REPORT

Agenda Item: 6.A

Board Meeting Date:	October 2, 2019
Prepared By:	Matt Atteberry
Reviewed By:	Randy Whitmann
Approved By:	Brett Hodgkiss

SUBJECT: ACCEPTANCE OF WATER SYSTEM

RECOMMENDATION: Accept this water system for an industrial development project, known as Keystone Innovation Center, consisting of approximately 10.3 gross acres developed by Badiee Development, LLC, located at 1347 and 1349 Keystone Way, Vista (I-3077; APN 221-011-19 DIV NO 5).

PRIOR BOARD ACTION: On February 7, 2018, the Board approved the waterline project.

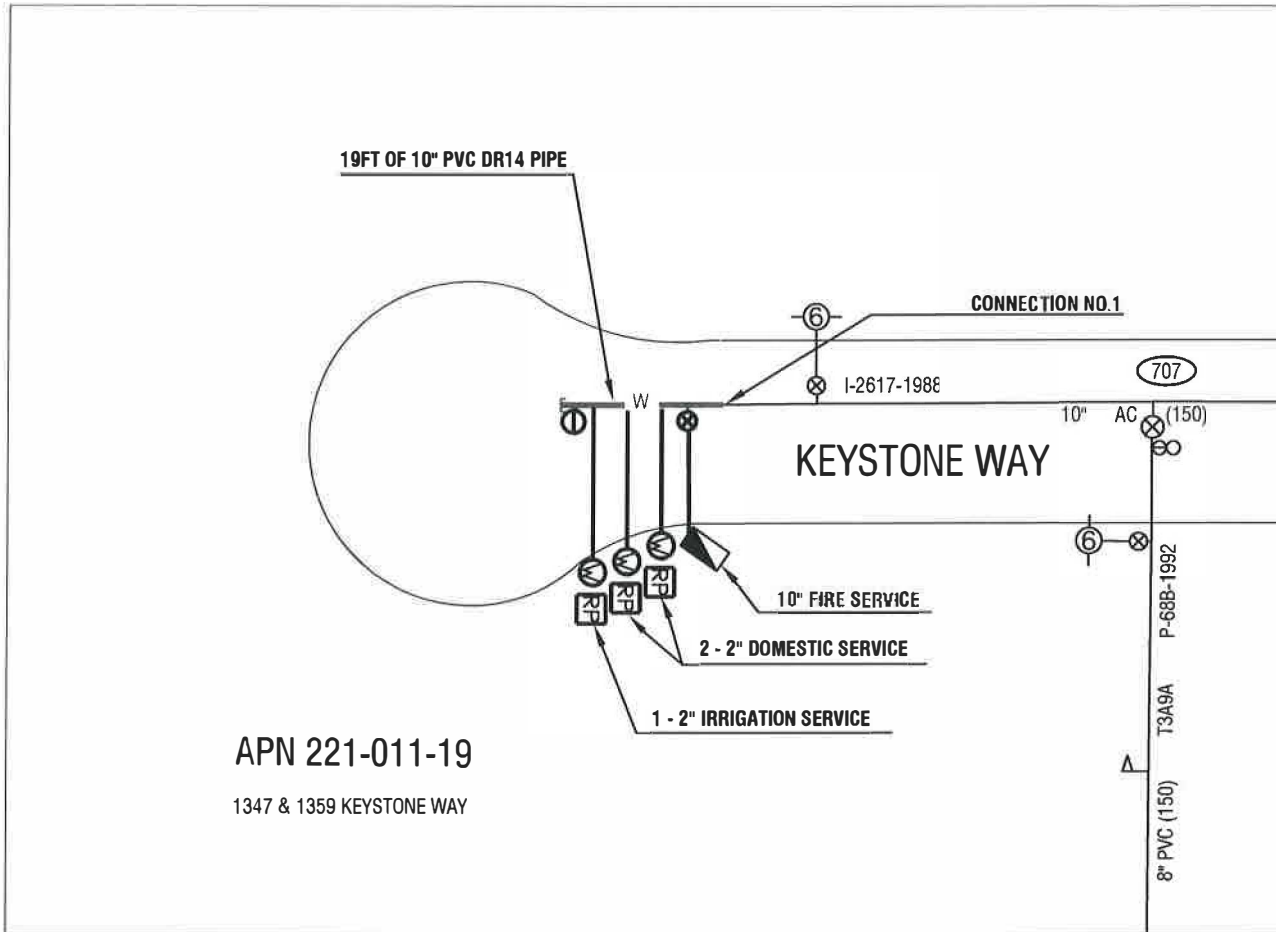
FISCAL IMPACT: None.

SUMMARY: The water system is ready for acceptance by the Board, which will allow the Notice of Acceptance to be filed with the County Recorder.

DETAILED REPORT: All work required by the construction contract (I-3077) has been completed. Under District inspection, the developer's contractor installed approximately 19 feet of 10-inch waterline, two 2-inch domestic services, one 2-inch irrigation service, one 10-inch fire service and made the necessary connections. The owners have paid for two 2-inch domestic meters, one 2-inch irrigation meter and installed all necessary backflow devices. This project will be completed with the filing of the Notice of Acceptance.

ATTACHMENT: Map


EXHIBIT "A"







KEYSTONE INNOVATION CENTER

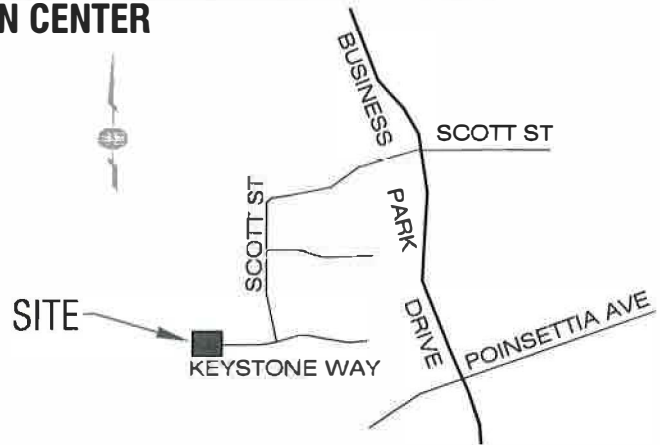
LEGEND

EXISTING

- WATERLINE 
- VALVE 
- FIRE HYDRANT 
- BLOW OFF 
- MANUAL AIR RELEASE 

PROPOSED

- WATERLINE 
- WATER SERVICE WITH BACKFLOW 
- FIRE SERVICE WITH BACKFLOW 
- BLOW OFF 



VICINITY MAP

NTS

OWNER
 BADIEE DEVELOPMENT
 P. O. BOX 3111
 LA JOLLA, CA 92038

ENGINEER
 EXCEL ENGINEERING
 440 STATE PLACE
 ESCONDIDO, CA 92029

VISTA IRRIGATION DISTRICT			
KEYSTONE INNOVATION CENTER			
APN	221-011-19	T.B.	1127-J1
SCALE	1" = 40'	L.N.	2017-026
APPD. BY	<i>mt</i>	DATE	9/24/19
DRAWN BY	P. DUPREE	DATE	9/23/19
SHEET	1 OF 1	MAP	F25
REVISED: 9/24/19 Matt Atteberry			
I-3077			
Z:\Engineering\JOBS\Jobs\I3077_Keystone Center\LN2017-026 Keystone Way\Keystone			



Cash Disbursement Report

Payment Dates 09/06/2019 - 09/18/2019

Payment Number	Payment Date	Vendor	Description	Amount
62612-62613	09/12/2019	Refund Checks 62612-62613	Customer Refunds	2,379.95
62614	09/12/2019	Refund Check 62614	Customer Refund	40.17
62615	09/12/2019	Escondido Metal Supply	Chromoly Tubing	278.64
62616	09/12/2019	Amazon Capital Services	Ergo Supplies - Wrist Rests (2)	37.56
	09/12/2019		Gate Opener Remotes (2)	25.25
62617	09/12/2019	BAVCO	Backflow for Construction Meter (1)	634.41
62618	09/12/2019	CDW Government Inc	HPE Power Supply (2)	467.75
	09/12/2019		Cisco SmartNet Renewal	11,349.42
	09/12/2019		HP LaserJet Pro M404dn (1)	229.96
	09/12/2019		Logitech USB Headset (1)	31.01
62619	09/12/2019	Cecilia's Safety Service Inc	Traffic Control - Specialty Dr	1,520.00
	09/12/2019		Traffic Control - Alta Vista Dr/Cypress Ave	6,745.00
	09/12/2019		Traffic Control - Buena Creek Rd/S Santa Fe Ave	1,330.00
	09/12/2019		Traffic Control - Plumosa Ave	1,140.00
62620	09/12/2019	760Print	Business Cards	504.45
62621	09/12/2019	City of Vista	S Santa Fe Phase II - Reimburse for Construction 06/2019	73,830.04
62622	09/12/2019	Coast Equipment Rentals	Concrete	184.02
62623	09/12/2019	Coastal Chlorination & Backflow	Chlorination of Main Line - Cypress/Sunrise	378.00
62624	09/12/2019	Council of Water Utilities	Meeting 09/17/19 - R Vasquez	45.00
	09/12/2019		Meeting 09/17/19 - B Hodgkiss	45.00
62625	09/12/2019	Department of Forestry & Fire Protection	Rainbow Camp Crew Brush & Tree Abatement 06/2019	567.35
62626	09/12/2019	Direct Energy	Electric 08/2019 - VID	276.15
	09/12/2019		Electric 08/2019 - Henshaw Buildings & Grounds	341.16
	09/12/2019		Electric 08/2019 - Henshaw Well Field	26.91
	09/12/2019		Electric 08/2019 - T & D / Cathodic Protection	33.97
	09/12/2019		Electric 08/2019 - Reservoirs	19.09
	09/12/2019		Electric 08/2019 - Pump Stations	8,704.46
	09/12/2019		Electric 08/2019 - Treatment Plants	29.51
62627	09/12/2019	Ferguson Waterworks	Cap Slip .75" PVC Sch 40 (8)	2.17
	09/12/2019		Brass Nipple .75 x 2" (2)	3.68
	09/12/2019		Adapter 2" PVC Female Sch 40 (10)	8.66
	09/12/2019		Bushing .75 x .25 Brass (4)	8.23
	09/12/2019		Cap .75" Brass (4)	8.23
	09/12/2019		Tee .75" Brass (6)	23.71
	09/12/2019		Tee .75 PVC SxSxS Sch 40 (5)	1.62

Payment Number	Payment Date	Vendor	Description	Amount
	09/12/2019		Coupling .75" PVC Sch 40 (20)	4.33
62628	09/12/2019	Fountain Car Wash	Wash Tokens (600)	540.00
62629	09/12/2019	Glennie's Office Products Inc	Office Supplies	47.63
	09/12/2019		Office Supplies	84.14
	09/12/2019		Office Supplies	46.36
62630	09/12/2019	Grainger	Equipment Caution Signs (2)	19.87
	09/12/2019		Water Valve Stems (2)	87.50
	09/12/2019		Threaded Caps, Couplings, Elbows	13.39
62631	09/12/2019	Home Depot Credit Services	Impact Gun, Battery	428.85
	09/12/2019		14" Diamond Blades	193.77
	09/12/2019		Lumber	4.82
	09/12/2019		Landscape Fabric, Batteries	62.74
	09/12/2019		Ant Bait, Saw Blades	39.97
	09/12/2019		Building & Grounds Maintenance Supplies	24.78
	09/12/2019		Shrub Plants, Building & Grounds Maintenance Supplies	229.21
	09/12/2019		Building & Grounds Maintenance Supplies	171.50
	09/12/2019		Building & Grounds Maintenance Supplies	69.56
	09/12/2019		Maintenance & Irrigation Supplies - Plant 9	77.03
	09/12/2019		Rebar	34.91
	09/12/2019		Rebar & Tie Wire	15.21
	09/12/2019		Rebar/Rebar Materials	231.05
	09/12/2019		Materials for Dam House Repair	438.02
	09/12/2019		Material & Paint for Dam House Repair	443.44
	09/12/2019		Materials for Dam House Repair	445.46
	09/12/2019		Materials for Dam House Repair	338.90
	09/12/2019		Materials for Dam House Repair	455.73
	09/12/2019		Materials for Dam House Repair	140.58
	09/12/2019		Lighting Fixtures	113.60
	09/12/2019		Rebar	151.28
	09/12/2019		Solar Upgrade Parts	64.16
	09/12/2019		Vault Drain Supplies	96.31
	09/12/2019		Solar Upgrade Parts	148.88
	09/12/2019		Concrete 60lb bag (168)	575.08
62632	09/12/2019	HUB Construction Specialties	Expansion Material for Concrete Floor	21.44
62633	09/12/2019	Joe's Paving	Patch Paving	3,116.95
	09/12/2019		Patch Paving	10,134.40
62634	09/12/2019	Lawnmowers Plus Inc	Weed Whip	534.40
	09/12/2019		Trim Line (2)	84.67
	09/12/2019		Harness for Weed Whips (3)	64.62
	09/12/2019		Anti-Backfire Solenoid Kit - Truck 10	132.76

Payment Number	Payment Date	Vendor	Description	Amount
62635	09/12/2019	Lightning Messenger Express	Messenger Service 08/16/19 & 08/30/19	105.00
62636	09/12/2019	Moodys	Dump Fees	400.00
62637	09/12/2019	NAPA Auto Parts	Impact Universal Joints (3)	71.41
	09/12/2019		Impact Universal Joints (3)	71.41
62638	09/12/2019	North County Auto Parts	Tail Light Lenses (6)	166.14
	09/12/2019		Mass Air Flow Sensor (1) - Truck 6	135.78
	09/12/2019		Belt for Gate Opener (1)	16.96
	09/12/2019		Oil Filter (1)	3.53
	09/12/2019		Air Hose Coupler, Fuel Filter, Hood Supports	74.42
	09/12/2019		Air Hose Couplers (3)	40.24
62639	09/12/2019	Pacific Pipeline Supply	Fire Hydrant LB400 Check Valve (11)	15,646.46
	09/12/2019		Fire Hydrant 6x4x2.5x2.5 (3)	9,450.23
	09/12/2019		Fire Hydrant 6x4x2.5 (7)	16,299.20
62640	09/12/2019	Parkhouse Tire Inc	Tires (2) - Truck 21	722.17
62641	09/12/2019	Benetrac	Employee Benefits Tracking 09/2019	400.00
62642	09/12/2019	Paychex of New York LLC	Onboarding/Recruiting Service 09/2019	412.50
62643	09/12/2019	Interstate All Battery Center	Solar Batteries (4)	913.41
62644	09/12/2019	Red Wing Shoe Store	Brown Tuff Toe (Case/12)	413.64
62645	09/12/2019	Rincon del Diablo MWD	MD Reservoir Water Service 08/2019	36.27
62646	09/12/2019	San Diego Gas & Electric	Gas Use 08/2019	215.86
	09/12/2019		Electrical Transmission 08/2019	2,881.33
	09/12/2019		Electric 08/2019 - T&D	99.51
	09/12/2019		Electric 08/2019 - Reservoirs	56.54
62647	09/12/2019	Santa Fe Car Wash	Car Washes (25)	225.00
62648	09/12/2019	Southern Counties Lubricants, LLC	Fuel 08/16/19 - 08/31/19	6,589.58
62649	09/12/2019	Spok, Inc	Pagers	44.06
62650	09/12/2019	Tegriscap Inc	Landscape Service 08/2019	1,787.50
62651	09/12/2019	Midas Service Experts	Tire - Truck 69	186.10
62652	09/12/2019	TS Industrial Supply	Part to Repair Vises	52.10
	09/12/2019		Utility Knife (10)	49.58
	09/12/2019		Flexovit Masonry Saw Blade 12"x 1/8"x20mm (10)	62.89
	09/12/2019		Rector Seal Pipe Thread Sealant (6)	103.60
	09/12/2019		Sea Electrical Tape 10 per Roll (20)	20.78
	09/12/2019		Strap 1"x12' Ratchet (13)	173.09
	09/12/2019		Cutter 2" ACWL-200 AC Carb Shell (1)	193.77
	09/12/2019		Gauge 100lb Pressure Oil (5)	101.48
	09/12/2019		Shovel 4" Trench (8)	154.58
	09/12/2019		Towel Wypall X80 (15)	524.47
	09/12/2019		Locks 2029 Master (48)	649.50
	09/12/2019		Lifter SS 36" Meter Lid (3)	105.38

Payment Number	Payment Date	Vendor	Description	Amount
	09/12/2019		Vise Part	59.68
62653	09/12/2019	UniFirst Corporation	Uniform Service	328.48
62654	09/12/2019	Verizon Wireless	SCADA Remote Access	370.87
62655	09/12/2019	VG Donuts & Bakery Inc	Board Meeting 09/04/19	32.10
62656	09/12/2019	Vista Fence Company Inc	Fence Parts - E1 Reservoir	158.29
62657	09/12/2019	Vortex Industries Inc	Maintenance of Gates (5)	740.00
62658	09/12/2019	Vulcan Materials Company and Affiliates	Cold Mix	2,041.38
62659	09/12/2019	Water District Jobs	Recruitment Advertising - Locator, System Operator	290.00
62660	09/12/2019	Xerox Corporation	Xerox Service & Supplies	223.42
62661-62663	09/18/2019	Refund Checks 62661-62663	Customer Refunds	1,423.13
62664	09/18/2019	Refund Check 62664	Customer Refund	3,234.92
62665	09/18/2019	ACWA/JPIA	Medical & Dental Ins 10/2019 - Cobra	(2,377.20)
	09/18/2019		Medical & Dental Insurance 10/2019 - Cobra	33.72
	09/18/2019		Medical & Dental Insurance 10/2019 - Cobra	69.09
	09/18/2019		Medical & Dental Insurance 10/2019 - Cobra	69.09
	09/18/2019		Medical & Dental Insurance 10/2019 - Cobra	690.90
	09/18/2019		Medical & Dental Insurance 10/2019 - Cobra	859.93
	09/18/2019		Medical & Dental Insurance 10/2019 - Cobra	(207.27)
	09/18/2019		Medical & Dental Insurance 10/2019 - Employees	157,159.36
	09/18/2019		Medical & Dental Insurance 10/2019 - Retirees	36,935.40
	09/18/2019		Medical & Dental Insurance 10/2019 - M Miller	1,821.57
	09/18/2019		Medical & Dental Insurance 10/2019 - P Sanchez	1,821.57
	09/18/2019		Medical & Dental Insurance 10/2019 - J MacKenzie	1,821.57
	09/18/2019		Medical & Dental Insurance 10/2019 - R Vasquez	1,576.55
	09/18/2019		Medical & Dental Insurance 10/2019 - P Dorey	1,576.55
62666	09/18/2019	Aloush LLC	Refund Service Change	372.00
	09/18/2019		Refund Service Change	113.00
62667	09/18/2019	BAVCO	Backflow Gauge Test/Calibration/Maintenance	185.31
62668	09/18/2019	Bearcom	2-Way Radio - Truck 2	430.06
	09/18/2019		Microphones for Vertex Ratios (3)	314.95
62669	09/18/2019	Brax Company, Inc	Bladder Tank - Station 11	4,421.26
62670	09/18/2019	Broadway Auto Glass Inc	Windshield Replacement - Truck 49	202.36
62671	09/18/2019	Canon Solutions America, Inc	Canon Service & Supplies	106.32
62672	09/18/2019	Cecilia's Safety Service Inc	Traffic Control - Alta Vista Dr/Cypress Ave	6,982.50
	09/18/2019		Traffic Control - Alta Vista Dr/Cypress Ave	3,705.00
	09/18/2019		Traffic Control - Hannalei Dr	4,940.00
	09/18/2019		Traffic Control - Watson Way/Yettford Rd	593.75
	09/18/2019		Traffic Control - Alta Vista Dr/Cypress Ave	5,700.00
	09/18/2019		Traffic Control - Sunrise Dr	760.00
	09/18/2019		Traffic Control - Via Soledad	712.50

Payment Number	Payment Date	Vendor	Description	Amount
62673	09/18/2019	Claims Management Associates Inc	Adjusting Services & Report	221.00
62674	09/18/2019	Core & Main	6" Meter & Spool - Vista High School	4,401.19
	09/18/2019		Parts for 10" Connection	973.29
62675	09/18/2019	CoreLogic Solutions Inc	Realquest Online Services 08/2019	300.00
62676	09/18/2019	CWEA	Membership Renewal	192.00
62677	09/18/2019	Diamond Environmental Services	Portable Restroom Service	113.02
	09/18/2019		Portable Restroom Service	80.01
	09/18/2019		Portable & Stationary Restroom Service	363.63
62678	09/18/2019	Digital Deployment, Inc	Website Hosting, Maintenance & Support 08/2019	300.00
62679	09/18/2019	Drug Testing Network Inc	DOT Random Drug Testing	191.90
62680	09/18/2019	EDCO Waste & Recycling Services Inc	Trash & Recycle 08/2019	225.99
	09/18/2019		40 yd Trash Dumpster - VID Headquarter	474.54
	09/18/2019		40 yd Trash Dumpster - North Drive Property	366.95
62681	09/18/2019	Electrical Sales Inc	Light Bulbs (15)	77.13
62682	09/18/2019	Fastenal Company	Hardware	16.26
	09/18/2019		Screws for Flatbed - Truck 7	14.77
62683	09/18/2019	Ferguson Waterworks	EII 6" DI FL 90 Degree (2)	239.02
	09/18/2019		Coupling 10" Deflection C900 (5)	849.76
	09/18/2019		Zinc Anode bag 30lb (30)	4,351.65
	09/18/2019		EII 6"x16" POxFL Bury DI (3)	870.33
	09/18/2019		Sleeve 10"x12" Galvanized Top Sections (60)	746.93
	09/18/2019		Adapter 6" DI POxFL 950 (5)	485.50
	09/18/2019		Adapter 4" DI FLxPO 960 (6)	372.81
	09/18/2019		Flange 10" SOW (6)	337.74
	09/18/2019		Service Saddle 6x1 Brass AC (3)	308.51
62684	09/18/2019	Flag Mart	US and California State Flags (4)	193.64
62685	09/18/2019	Gary Arrasmith	Computer Loan Program 09/2019	777.06
62686	09/18/2019	Glennie's Office Products Inc	Office Supplies	1,091.37
62687	09/18/2019	Gold Coast Flood Restorations	Emergency Restoration Services - Nordahl Rd	4,485.26
62688	09/18/2019	Grainger	Warning Signs, Panel Stand-offs	89.79
62689	09/18/2019	Hawthorne Machinery Co	Instrument Cluster - L4	(1,329.00)
	09/18/2019		Parts	(67.20)
	09/18/2019		Swivel Caster Wheel - B20	(325.00)
	09/18/2019		Instrument Cluster	(1,378.22)
	09/18/2019		Boom Limit Switch, Stabilizer Pads - B6	630.33
	09/18/2019		Instrument Cluster - L4	1,378.22
	09/18/2019		Loader Body Panels - L6	422.19
	09/18/2019		Swivel Caster Wheel (B20)	382.35
	09/18/2019		Hydraulic Pipes - B20	368.68
	09/18/2019		Instrument Cluster - L4	1,329.00

Payment Number	Payment Date	Vendor	Description	Amount
62690	09/18/2019	Horton Knox Carter & Foote LLP	Legal Services 09/2019	12,000.00
62691	09/18/2019	IDEXX Distribution Corporation	Lab Media	258.25
62692	09/18/2019	Interstate Battery of San Diego Inc	LED Worklights, Electrical Connectors	294.57
62693	09/18/2019	Kimball Midwest	Drill Bits, Holesaw, Cutting/Drilling Paste	109.27
62694	09/18/2019	Lawnmowers Plus Inc	Oil Dipsticks, Gaskets, Fuel Filters	86.99
62695	09/18/2019	Lennar Homes of California, Inc	Refund Service Change	25,552.00
62696	09/18/2019	Mallory Safety and Supply, LLC	Neoprene Rubber Gloves (5 pair)	89.31
	09/18/2019		Nemesis Shaded Safety Glasses (12)	52.61
	09/18/2019		Head Hunter Straw Hat (4)	31.39
	09/18/2019		Neck Shade (3)	18.67
	09/18/2019		Nemesis Clear Safety Glasses (24)	121.33
62697	09/18/2019	Medical Eye Services	Vision Insurance 10/2019 - Cobra	8.78
	09/18/2019		Vision Insurance 10/2019 - Cobra	14.24
	09/18/2019		Vision Insurance 10/2019 - Employees	1,569.10
	09/18/2019		Vision Insurance 10/2019 - P Sanchez	14.24
	09/18/2019		Vision Insurance 10/2019 - P Dorey	14.24
	09/18/2019		Vision Insurance 10/2019 - J MacKenzie	14.24
	09/18/2019		Vision Insurance 10/2019 - M Miller	14.24
	09/18/2019		Vision Insurance 10/2019 - R Vasquez	14.24
62698	09/18/2019	Moodys	Dump Fees (4)	800.00
	09/18/2019		Dump Fees (4)	800.00
62699	09/18/2019	NAPA Auto Parts	Vise & Mount - Truck 79	308.50
62700	09/18/2019	North County Auto Parts	Torque Wrenches (2)	64.93
	09/18/2019		Lube, Air Hoses, Couplers, Filter	68.71
	09/18/2019		Fuse	(3.89)
62701	09/18/2019	One Source Distributors	Prescription Safety Glasses	211.09
62702	09/18/2019	O'Reilly Auto Parts	Purge Solenoid (1) - Car 50	34.37
	09/18/2019		R134a Refrigerant (2) - L6	39.46
62703	09/18/2019	Pacific Pipeline Supply	Pipe Support Saddle (1)	63.66
62704	09/18/2019	Ramco Petroleum	Fuel	900.00
62705	09/18/2019	Ramona Disposal Service	Waste Disposal	161.10
62706	09/18/2019	Rancho Environmental Service	Removal of Trees (2)	1,800.00
62707	09/18/2019	Right-of-Way Engineering Services, Inc	E43 PRS Construction Staking	1,930.00
62708	09/18/2019	Rutan & Tucker LLP	Legal Service 07/2019	2,835.50
62709	09/18/2019	SiteOne Landscape Supply, LLC	Roundup Herbicide (6)	104.32
62710	09/18/2019	Standard Plumbing Supply Company Inc	4" ABS Sewer Fittings	11.45
62711	09/18/2019	Sunbelt Rentals	Dump Truck Rental	748.33
	09/18/2019		Concrete	219.61
62712	09/18/2019	Midas Service Experts	Tire - Truck 29	114.37
62713	09/18/2019	TS Industrial Supply	Safety Snap Pins (6)	31.05

Payment Number	Payment Date	Vendor	Description	Amount
	09/18/2019		Gloves Thickster Nitrile LG 100 per box (10)	151.01
	09/18/2019		Pruner 1" (5)	128.44
	09/18/2019		Igloo Water Cooler 3 gal (3)	116.91
	09/18/2019		Pipe Wrap Tape (10)	70.36
	09/18/2019		Air Hose Reel (1), Swivel Caster Wheel (1)	382.04
	09/18/2019		File 12" Flat (4)	116.04
	09/18/2019		1.25" Stiff Wall Scraper (2)	9.20
	09/18/2019		Flexouit 14"x 1/8" x 20mm (4)	41.96
	09/18/2019		Marking Paint Blue #203 (12)	48.58
	09/18/2019		Marking Paint White #207 (12)	48.58
	09/18/2019		Replacement Copper Cutting Wheels (10)	74.15
	09/18/2019		Teflon Tape 1/2 x 520in (20)	12.56
	09/18/2019		Blue Marking Paint (24)	97.23
	09/18/2019		White Marking Paint (24)	97.23
	09/18/2019		White Striping Paint (24)	124.18
	09/18/2019		Blue Striping Paint (24)	124.18
	09/18/2019		Black Striping Paint (24)	124.18
	09/18/2019		Teflon Tape 1 x 520in (20)	23.60
	09/18/2019		Threaded Rubber Stop Cushions (6)	23.06
	09/18/2019		Electrical Cord Reel - Truck 20	113.66
62714	09/18/2019	UC Regents	Scholarship Award	1,000.00
62715	09/18/2019	UniFirst Corporation	Uniform Service	328.23
62716	09/18/2019	Vista Brake & Smog	Tires (2) - Truck 74	295.46
62717	09/18/2019	Vista Fence Company Inc	Fencing Modifications and Additions - E1 Reservoir	3,473.00
62718	09/18/2019	Vista Plumbing, Inc	Refund Quitclaim Document Fee	627.00
62719	09/18/2019	Golden State Graphics	Warehouse Forms	1,358.54
Grand Total:				516,577.46



STAFF REPORT

Agenda Item: 7

Board Meeting Date: October 2, 2019
Prepared By: Don Smith, Randy Whitmann, Frank Wolinski & Marlene Kelleher
Approved By: Brett Hodgkiss

SUBJECT: DIVISION REPORTS

RECOMMENDATION: Note and file informational report.

PRIOR BOARD ACTION: None.

FISCAL IMPACT: None.

SUMMARY: Previous month's and anticipated activities are reported by each division.

OPERATIONS & FIELD SERVICES DIVISION

September

- Water Quality Calls/Incidents for September – received three discolored water calls. Two discolored water calls were related to a system shutdown and were resolved with minor flushing. The third discolored water call was determined to be a private plumbing issue.
- Inspected and tested 17 new backflow devices that were integrated into the District's cross-connection control program.
- Edgehill (HP) reservoir solar project – completed solar panel mast installation, hardware mounting, electrical and functional testing.
- Virginia Place (A) reservoir solar project – completed material procurement and solar panel frame fabrication.
- San Luis Rey solar project – fabricated mast and associated hardware; poured mast footing.
- Began mainline replacement of AC pipe on Montgomery Drive – install approximately 5,400' of various sizes PVC pipe, 72 services and seven hydrant laterals.
- Completed new mainline installation on Gecko Road – installed 190' of 8" and 30' of 4" PVC pipe, three services and one fire hydrant.
- Completed mainline replacement of steel and AC pipe on Alta Vista and Sunrise Drive – installed approximately 1,400' of various sizes PVC pipe, 16 services and two hydrant laterals.

October

- Continue Virginia Place (A) and San Luis Rey solar projects.
- Continue mainline replacement of AC pipe on Montgomery Drive – install approximately 5,400' of various sizes PVC pipe, 72 services and seven hydrant laterals.
- Begin mainline replacement of steel and AC pipe on Nettleton – install approximately 700' of various sizes PVC pipe, six services and one hydrant lateral.

Electrical Energy Use at VID Headquarters

August 2019

Description	Current Month Production		Average of Last 12 Months		Total, Fiscal Year-to-Date
	(kWh)		(kWh)		(kWh)
Solar Production (\$0.17 per kWh)	44,333		31,991		46,792
Power purchased from Direct Energy (\$0.05 per kWh)	4,925		11,914		5,881
TOTAL ELECTRICAL ENERGY USE	49,258		43,905		96,673

WATER RESOURCES DIVISION

VID Water Production

August 2019

Description	Current Month Production		Average Production of Last 12 Months		Total, Fiscal Year-to-Date
	(mgd)	(af)	(mgd)	(af)	(af)
<i>VID's EVWTP Water Production</i>					
Local Water	7.57	720.20	3.51	328.01	1,441.80
SDCWA Raw Water	7.44	707.60	6.61	617.36	1,478.70
Subtotal (EVWTP Water Production)	15.01	1,427.80	10.11	945.37	2,920.50
Oceanside Contract Water	0.00	0.00	1.19	112.07	0.00
SDCWA Treated Water	3.61	343.80	2.80	260.18	612.40
TOTAL WATER PRODUCTION	18.62	1,771.60	14.10	1,317.62	3,532.90

Lake Henshaw and Warner Ranch Wellfield statistics are summarized as follows:

Lake Henshaw

Storage as of September 24, 2019:	4,865 af (9% of 51,774 af capacity)
Current releases:	25 cfs
Change in storage for month of August:	3,834 af (loss)
Total releases for month of August:	2,809 af
Hydrologic year-to-date rain total:	0.08 inches (September 24, 2019)
Percent of yearly average rain:	0.3% (30-year average: 24.62 inches)
Percent of year-to-date average rain:	9% (30-year average through August: 0.49 in.)

Warner Ranch Wellfield

Number of wells running in August:	0
Total production for month of August:	7 af
Average depth to water table (September):	104 ft (see attached historical water table chart)

September

- Observed concrete ditch lining project being performed for Imperial Irrigation District.
- Met with Helix Environmental at Warner Ranch to discuss environmental constraints related to replacing damaged concrete ditch sections.

October

- Begin Siphon 1b lining project.

ATTACHMENTS:

Lake Henshaw Resort, Inc., Activity Reports – July 2019
VID's Warner Wellfield – Water Table Depth vs. Monthly Wellfield Production

ADMINISTRATION DIVISION

September

- The District's total water production for August 2019 was 1,772 acre-feet (AF) compared to 2,136 AF in 2013, representing a 17% decrease.
- Attended California Special Districts Association Annual Conference.
- Participated in Association of California Water Agencies Joint Powers Insurance Authority Finance and Audit Committee meeting.
- Issued news release regarding the District receiving a national award for financial reporting.
- Attended multi-agency workgroup meeting to discuss implementation of Senate Bill 998 regarding discontinuation of water service for non-payment.
- Continued recruitment for System Operator, Facilities Locator and Water Resources Aide positions.
- Coordinated flu shots for employees, Directors and family members.
- Hosted training sessions for supervisors and managers on labor code for public agencies and privacy issues in the workplace. These trainings were open to other agencies.

October

- Host Homeowner Landscape Makeover Workshop.
- Continue recruitment for System Operator, Facilities Locator and Water Resources Aide positions.
- Coordinate sexual harassment training in accordance with SB 1343, which mandates training for all employees.
- Coordinate electrical certification course for field personnel. This class is open to other water agencies.
- Coordinate annual Employee Health and Wellness Fair.

ENGINEERING DIVISION

September

- Mainline Replacements – continued working on the design of main replacement projects.
- The District has replaced approximately 9.22 miles of Nipponite pipe since 2002. Of the 6.76 miles of Nipponite pipe remaining in the system, replacement of 1.5 miles is currently in design and 0.0 miles is in construction.
- The District has replaced approximately 1,435 feet (0.27 miles) of pipe (steel – 990 feet, PVC – 0 feet, non-Nipponite asbestos cement – 445 feet and Nipponite – 0 feet) in Fiscal Year 2020.
- Buena Creek (HB) Reservoir Rehabilitation – Richard Brady and Associates began mobilization for construction activities and selected subcontractors for initial site work, exterior stairs, roof demolition, and new aluminum dome roof. Cost estimate/bid summary table attached.
- Edgehill (E) Reservoir Replacement and Pump Station – Dudek completed the final preliminary design report.
- Water Supply Planning Study – Gillingham Water continued with the fine screening analysis of the short-list of water supply alternatives.

October

- Mainline Replacement Projects in design (current projects): Nettleton Rd., Alta Vista Dr., Vista Grande Dr.*, Lonsdale Ln.*, Plumosa Ave., Lita Ln., Catalina Ave.*, Friendly Dr.*, Oak Dr.*, San Clemente Way*, Devon Pl., Kent Pl., Clarence Dr., York Dr., Calle Maria, Via Christina, Olive Ave.*, Green Hills Way, Elevado Rd. (Total length = 5.5 miles).
- Mainline Replacement Projects in planning (future projects): N. Citrus Ave.*, E. Vista Way, Mason Rd., Lado De Loma, Eddy Dr., Camino Patricia, Camino Corto, Nordahl Rd.*, HN Line- Gopher Canyon to Fairview Dr., Buena Creek Rd.*, Robinhood Rd., Lower Ln., Easy St., Rancho Vista Rd., Bandini Place, McGavran Dr., Oro Avo Dr., Shale Rock, La Mirada, Crescent Dr., Descanso Ave., Mar Vista Dr., Miramar Dr., Camino Culebra*, Camino Loma Verde*, San Clemente Ave.* (Total length = 8.49 miles).
- City of Vista Projects – (Paseo) South Santa Fe Streetscape Improvements: Phase II along South Santa Fe Avenue from Ocean View to Terrace Drive (CIP #8289); Phase III along South Santa Fe Avenue from Terrace Drive to Civic Center Drive (CIP #9291). Project currently in construction and District to continue inspecting water facilities installed by City’s contractor. (Total length = 0.77 miles).
- Buena Creek (HB) Reservoir Rehabilitation – Richard Brady and Associates to begin removing the existing reservoir exterior stairs, demolition of existing piping facilities, and grading for a new pad for the construction crane used for reservoir roof demolition.
- Edgehill (E) Reservoir Replacement and Pump Station – Dudek to begin final design.
- Water Supply Planning Study – Gillingham Water to continue the fine screening analysis of the short-list of water supply alternatives.

*Nipponite pipe

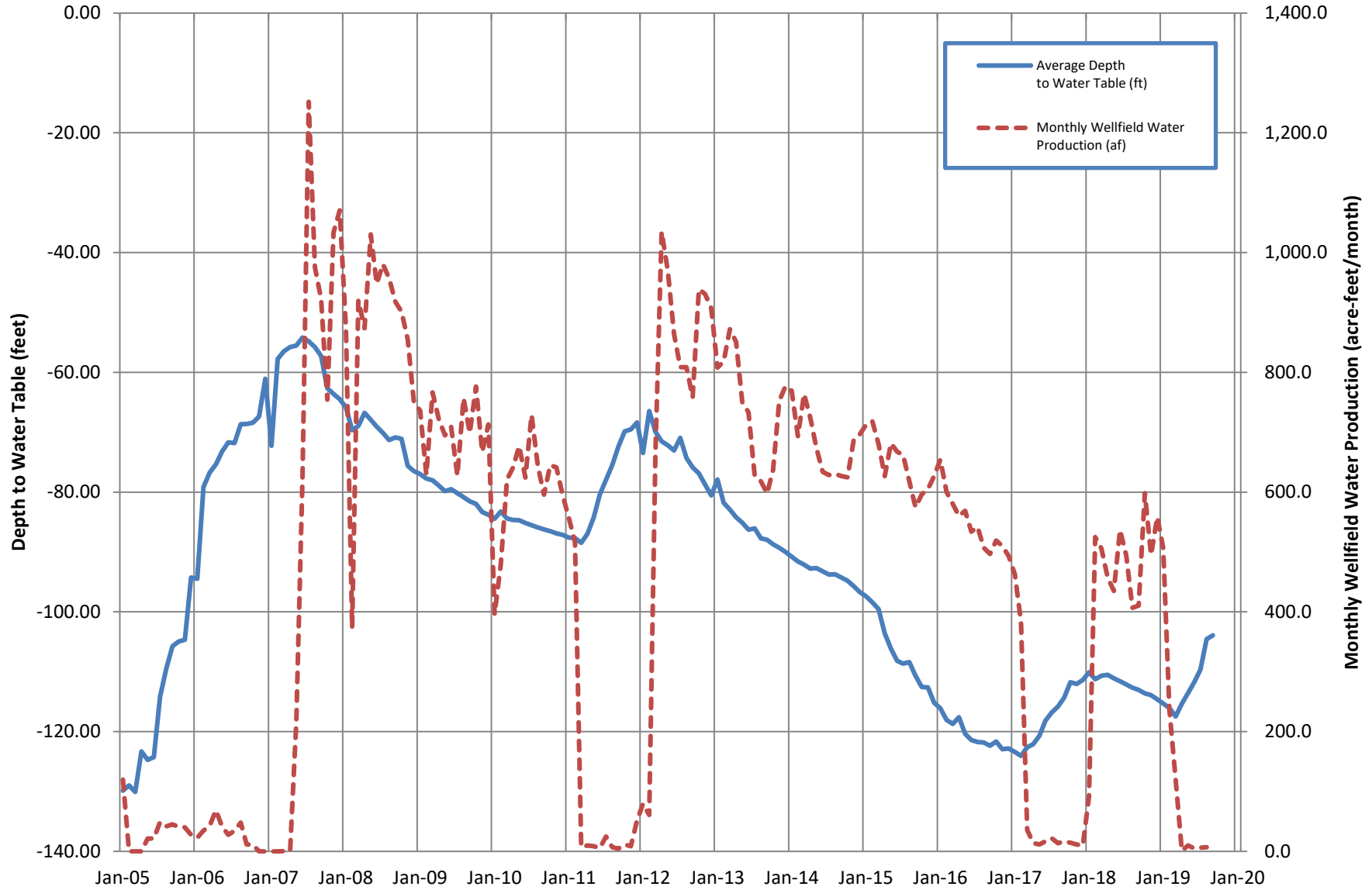


**LAKE HENSHAW RESORT, INC.
ACTIVITY REPORT
AS OF JULY 31, 2019**

	2018 Jul	2018 Aug	2018 Sep	2018 Oct	2018 Nov	2018 Dec	2019 Jan	2019 Feb	2019 Mar	2019 Apr	2019 May	2019 Jun	2019 Jul	12 MO AVG
Fishing Permits	670	355	454	234	172	94	161	74	356	633	384	749	751	368
Boat Launches	26	1	1	0	0	0	0	0	4	43	30	43	50	14
Motor Boats (full day rental)	32	29	19	0	0	0	0	0	0	0	11	48	47	13
Motor Boats (half day rental)	10	14	2	0	0	0	0	0	0	0	2	7	4	2
Campground/Head Count	1,977	1,178	351	282	325	99	35	56	319	590	599	879	979	474
Campground/Cars, Trucks, etc.	732	497	234	182	184	33	19	23	61	178	254	286	391	195
Campground/Recreational Vehicles	3	0	10	8	5	0	6	3	3	9	11	23	3	7
Mobile Home/Spaces	88	89	80	82	86	87	78	78	76	75	76	77	77	80
M.H.P. Daily (Visitors/Head Count)	78	78	72	63	42	53	42	41	56	62	41	54	56	55
M.H.P. (Residents/Head Count)	124	124	122	116	119	120	101	100	94	93	94	96	98	106
Storage	5	5	3	3	2	3	3	6	4	4	4	5	3	4
Cabins	210	237	194	114	136	97	105	59	111	184	188	108	158	141
Hunters	0	0	0	0	25	65	53	0	0	0	0	0	0	12

VID's Warner Wellfield

Water Table Depth vs. Monthly Wellfield Production



BUENA CREEK (HB) RESERVOIR REHABILITATION BUDGET UPDATE - OCTOBER 2019

Description of Work	Budgeted Cost	Actual Bid Cost	Over or Under Budgeted Amount
Initial Site Work - M-Rae			
<i>Demolish Existing Fence, Steel Roof, Gate, Grub Site, Initial Site Work for Crane and Equipment Access</i>	\$59,693	\$28,200	-\$31,493
Exterior Stairs - Suez			
<i>Disassemble, Transport, Protect, Store, and Reinstall Exterior Stairs</i>	\$52,718	\$50,488	-\$2,230
Demo Roof - DN Tanks			
<i>Roof Demolition, Remediate Existing Asbestos</i>	\$809,400	\$1,004,390	\$194,990
Tank Improvements			
<i>Footing Modifications, Seismic Cables, Wall Shotcrete, Tank Exterior Crack Repair, Pressure Wash Tank Interior, Interior Floor and Wall Crack Repairs, Seal Existing Floor Joints, Demolish Existing Inlet/Outlet, Modify Drain, Construct New Inlet, Outlet, Washdown, Demolish Exist Inlet/Outlet, Modify Drain, Construct Inlet, Outlet, Washdown, Construct New Concrete Floor, Construct New Concrete Cap Beam, CIM Wall-Slab Joint, Construct New Staff Gage, New Overflow, Post Construction Leak Test, Install Corrosion Protection System</i>	\$1,814,961		
Interior Stairs			
<i>Design, Furnish, Install, New Interior Access Stairs</i>	\$170,400		
Interior Coatings			
<i>Prepare Surface, Apply Coatings to Interior Wall</i>	\$210,870		
Aluminum Dome Roof - CST			
<i>Design, Furnish, Install, New Aluminum Roof and Appurtenances</i>	\$785,570	\$664,215	-\$121,355
Yard Piping			
<i>Demolish Exist Yard Piping, Fittings, Valves, and Appurtenances, Construct New Yard Piping, Construct New Valve Vault, Remove and Replace Drain Valve, Construct Yard Piping Corrosion Protection System</i>	\$651,569		
Electrical			
<i>Construct New Conduit, Junctions and Pull Boxes</i>	\$37,275		
Stormwater Drainage and Final Site Work			
<i>Demolish Existing Asphalt, Rough Grade Site, Install Subsurface Waterproofing, Modify Underdrains, Construct New Storm Drain Inlet and Piping, Connect to Exist Manhole, Finish Grade, Construct Concrete V-gutter, Pave Site with Asphalt Concrete, and Additional Access Road Asphalt Paving</i>	\$294,312		
Security Fence			
<i>Construct New Chain Link Security Fence</i>	\$72,953		
Exterior Reservoir Coating			
<i>Pressure Wash, Apply Coatings to Reservoir Exterior</i>	\$58,575		
General Conditions			
<i>Provide Trailer, Porta Potty, <u>Reproduction</u>, Temporary Facilities, <u>Insurance</u>, <u>Bonds</u>, Special Inspection and Testing, Potholing, Surveying, Video, Install and Maintain Stormwater Best Management Practices</i>	\$343,692	\$131,642	
Construction Total To Date	\$5,361,988	\$1,878,936	\$39,912



STAFF REPORT

Agenda Item: 8

Board Meeting Date: October 2, 2019
Prepared By: Greg Keppler
Reviewed By: Randy Whitmann
Approved By: Brett Hodgkiss

SUBJECT: EDGEHILL (E) RESERVOIR REPLACEMENT AND PUMP STATION

RECOMMENDATION: Receive informational report on the primary findings and recommendations from the preliminary design report for the Edgehill (E) Reservoir Replacement and Pump Station project.

PRIOR BOARD ACTION: On October 24, 2018, the Board authorized the General Manager to enter into an Agreement for Professional Services with Dudek for the Edgehill (E) Reservoir Replacement and Pump Station project in an amount not-to-exceed \$885,110.

FISCAL IMPACT: Planning level construction costs are estimated to be \$9.41 million for the Edgehill (E) Reservoir Replacement and Pump Station project's recommended alternative. Dudek will prepare a more detailed construction cost estimate during the final design. The District has budgeted a total of \$1.4 million (approximately \$900,000 for planning, design and environmental services and \$500,000 for construction) for the project to date; the balance of project construction costs will be budgeted for in fiscal years 2021 and 2022 in anticipation of construction beginning in fall/winter 2020.

SUMMARY: Edgehill (E) Reservoir, located near the end of Edgehill Road (see Exhibit A), is a 1.5 million gallon (mg), reinforced, gunite reservoir constructed in 1929. The reservoir is situated on approximately 1.55 acres and serves the 752 Pressure Zone. This facility is considered to have reached its useful life and in need of replacement, as repairs to the roof and floor are a continual effort. Additionally, the Master Plan identified a storage deficiency in the 752 Pressure Zone, and a new 2 to 4 mg reservoir is desired. The Master Plan also identified the need for a new pump station at the site to serve as a redundant feed from the Edgehill (E) Reservoir into the higher pressure zones.

Dudek was selected by the District to provide the planning, design and environmental services for the Edgehill (E) Reservoir Replacement and Pump Station project. The Preliminary Design Report (PDR) has been completed, and it presents the findings from the geotechnical investigations, environmental assessments, and distribution system/pump station hydraulic and surge analyses; pump station, site civil and reservoir design criteria; development and screening of alternatives; preliminary cost estimates and evaluation of the California Environmental Quality Act (CEQA) and permitting requirements; and recommended alternative for final design.

DETAILED REPORT: The PDR contains four key findings; details of each follows:

Storage Capacity Optimization - The Edgehill (E) Reservoir site is constrained by its parcel size and steep terrain, and Dudek was tasked with the design challenge of maximizing the storage capacity of the new reservoir while maintaining reasonable construction costs and avoiding operational and environmental impacts. The following is a summary of the investigations and results:

- The geotechnical investigation included five borings and four seismic refraction transverses, and results indicate widespread hard rock that would present difficulties in excavation; lowering the reservoir floor elevation to increase the storage volume will have significantly high construction costs.

- The hydraulic analysis investigated increasing the high water level of the reservoir by six feet and found negligible impacts on the operation of the 752 Pressure Zone and existing water system pressures. Additionally, a minor height adjustment of 6 feet will have minimal visual impacts.
- Multiple reservoir alternatives were developed and screened to evaluate maximizing storage volumes based on the parcel size, shape, existing terrain, and avoidance of rock excavation. A single, large circular shaped reservoir does not fit well on this site.

Based on the above, Dudek recommends increasing the storage volume through raising the reservoir height and avoiding any rock excavation that would be required to lower the reservoir base elevation. Additionally, an oblong shaped reservoir parallel to the existing slope is necessary to maximize the footprint.

Reservoir Alternatives - The PDR developed site plans for the top two reservoir alternatives, Alternatives 1B and 3 (see Exhibits B and C). The findings and recommendations are as follows:

- Alternative 1B – this alternative is a single hexagonal cast-in-place reservoir with a storage volume of 2.92 mg. With a planning level construction cost estimate of \$9.41 million including the pump station, this is the recommended alternative. It provides the best value based on constructed cost per gallon of storage and would have the shortest construction duration (about 18 months). If desired, this alternative could provide the same operation flexibility as Alternative 3 with the addition of an internal wall. However, extra valves and piping would be needed (if an internal wall is added), and the cost would be higher than \$9.41 million.
- Alternative 3 – this alternative has two separate pre-stressed circular concrete reservoirs with a total storage volume of 2.87 mg. This is the most expensive option with a planning level construction cost estimate of \$10.25 million including the pump station. The only major benefit of this alternative is that it provides additional operational flexibility over a single reservoir.

Exhibit D (attached) is the comparison table from the PDR that includes all the pros and cons between the alternatives that were evaluated by Dudek.

Pump Station - A capacity of 3,000 gallons per minute (gpm) was selected for the pump station size based on the peak system demands within the upper pressure zones. Dudek completed a hydraulic analysis of the distribution system using the District's computer model to evaluate the ability of the existing system to deliver 3,000 gpm to the new pump station and confirmed that no existing offsite pipelines require upsizing. Hydraulic modeling was also performed to determine that a pump head of 230 feet is required. The proposed pump station configuration includes six (five duty and one standby) 600 gpm, 50 horsepower, vertical multi-stage pumps (see Exhibit E).

CEQA - Preliminary environmental site assessments, biological resources assessments, and cultural resources assessments were conducted as part of the PDR. All preliminary assessments indicate that no significant environmental impacts will occur from the project and likely a mitigated negative declaration will be required. Dudek will prepare an initial study during final design to confirm these preliminary findings.

ATTACHMENTS: Exhibit A – Project Location Map
 Exhibit B – Reservoir Alternative 3 Site Plan with New Pump Station
 Exhibit C – Reservoir Alternative 1B Site Plan with New Pump Station
 Exhibit D – Evaluation of Alternatives Table
 Exhibit E – Pump Station Plan

Exhibit A - Project Location Map

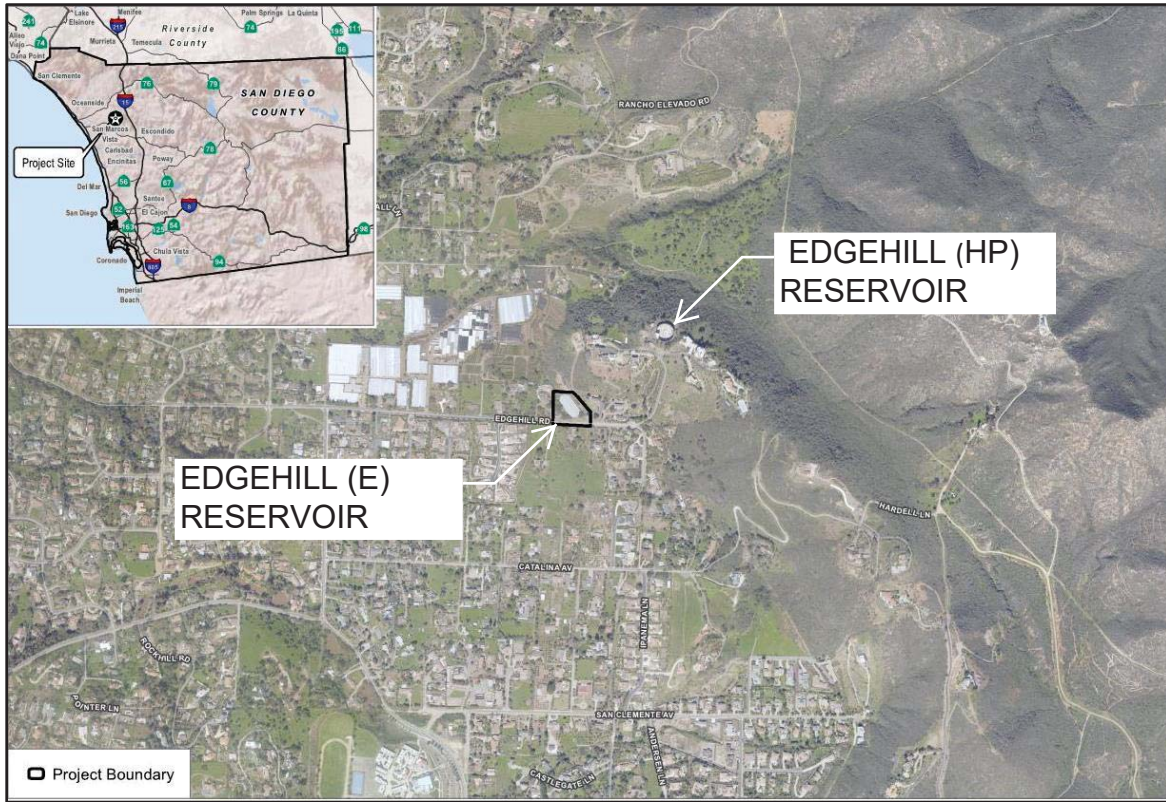
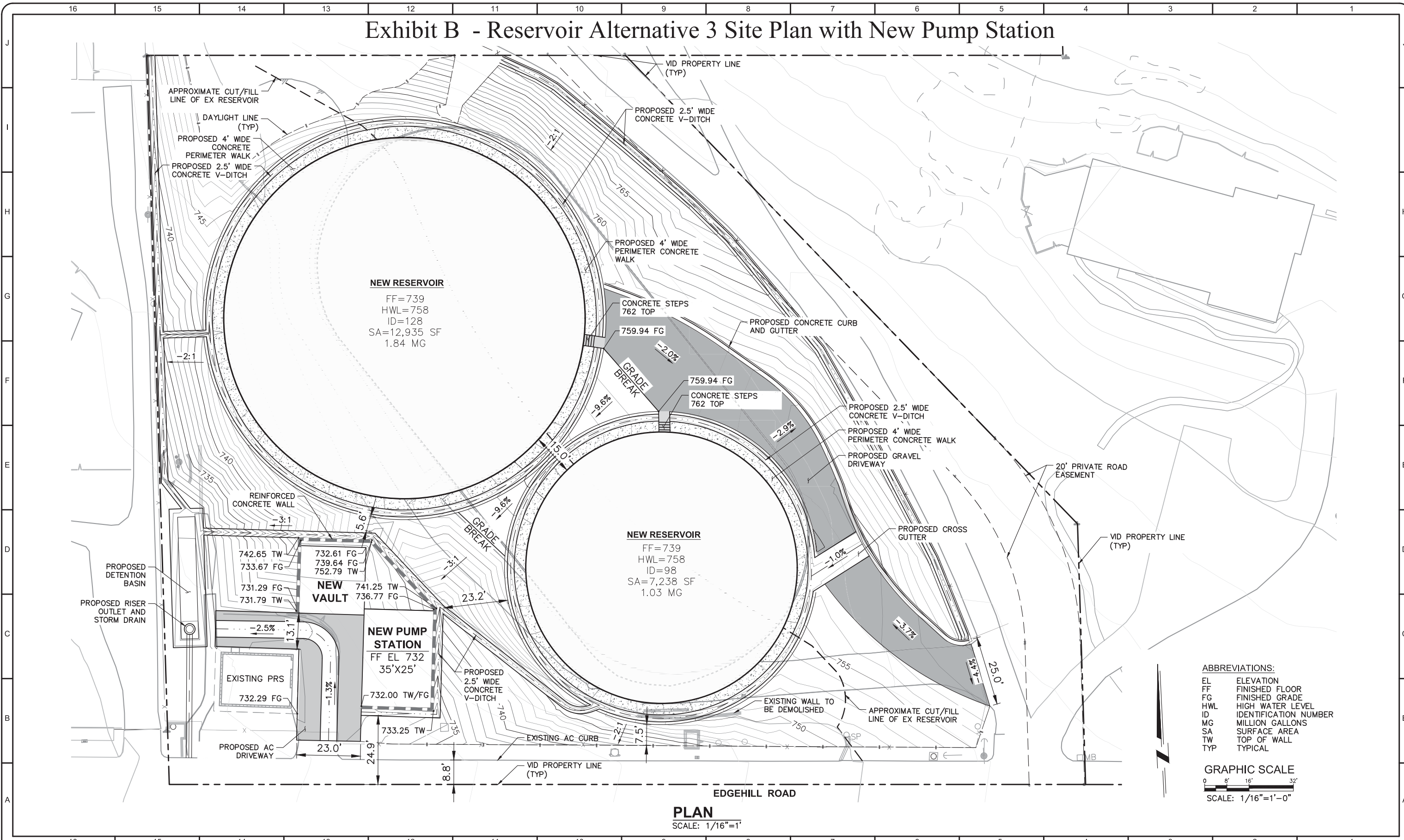
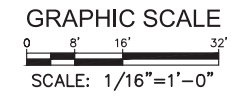


Exhibit B - Reservoir Alternative 3 Site Plan with New Pump Station



ABBREVIATIONS:
 EL ELEVATION
 FF FINISHED FLOOR
 FG FINISHED GRADE
 HWL HIGH WATER LEVEL
 ID IDENTIFICATION NUMBER
 MG MILLION GALLONS
 SA SURFACE AREA
 TW TOP OF WALL
 TYP TYPICAL



PLAN
 SCALE: 1/16"=1'

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REV NUM	DESCRIPTION	DRWN BY	CHK'D BY	DATE

ATTENTION:	0	1/2	1
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DUDEK
 605 Third Street Encinitas, CA 92024
 760.942.5147 Fax 760.632.0164

VID VISTA IRRIGATION DISTRICT
 1391 ENGINEER STREET
 VISTA, CA 92081
 PH (760) 597-3100

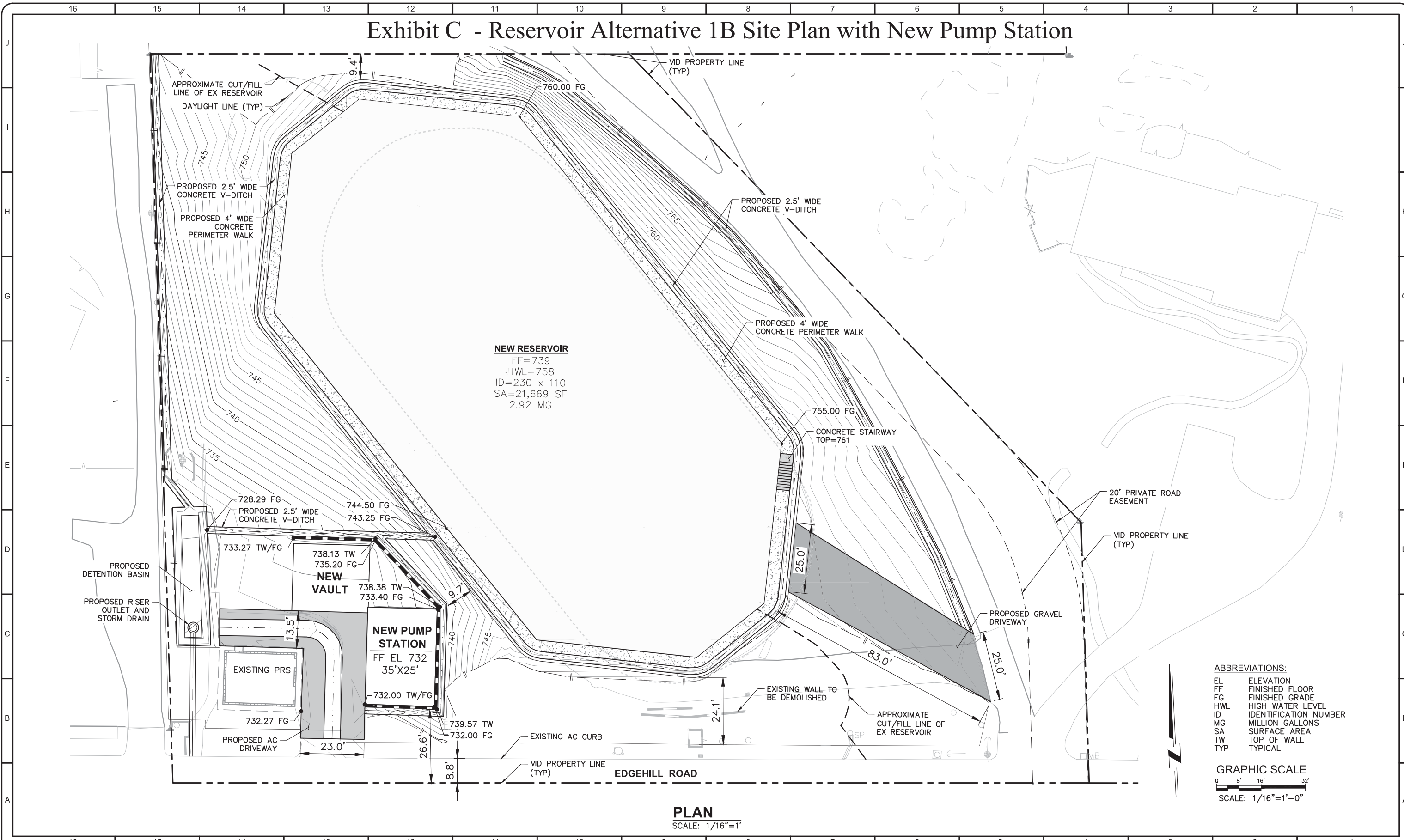


DESIGNED:	NAH
DRAWN:	NH
CHECKED:	ADC
APPROVED:	
REFERENCE NO:	
PROJECT NO:	X-XXXX
SCALE:	AS SHOWN

E RESERVOIR AND PUMP STATION
 PROJECT D-2346
 GRADING AND DRAINAGE PLAN
 ALTERNATIVE 3

DRAWING NUMBER
C-1
 OF XX
 REV **A**

Exhibit C - Reservoir Alternative 1B Site Plan with New Pump Station



PLAN
 SCALE: 1/16"=1'

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REV NUM	DESCRIPTION	DRWN BY	CHK'D BY	DATE

ATTENTION:	0	1/2	1
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DUDEK
 605 Third Street Encinitas, CA 92024
 760.942.5147 Fax 760.632.0164

VID VISTA IRRIGATION DISTRICT
 1391 ENGINEER STREET
 VISTA, CA 92081
 PH (760) 597-3100



DESIGNED:	NAH
DRAWN:	CS
CHECKED:	ADC
APPROVED:	
REFERENCE NO:	
PROJECT NO:	X-XXXX
SCALE:	AS SHOWN

E RESERVOIR AND PUMP STATION
 PROJECT D-2346
 GRADING AND DRAINAGE PLAN
 ALTERNATIVE 1B

DRAWING NUMBER
C-1
 OF XX
 REV **A**

Exhibit D – Evaluation of Alternatives Table

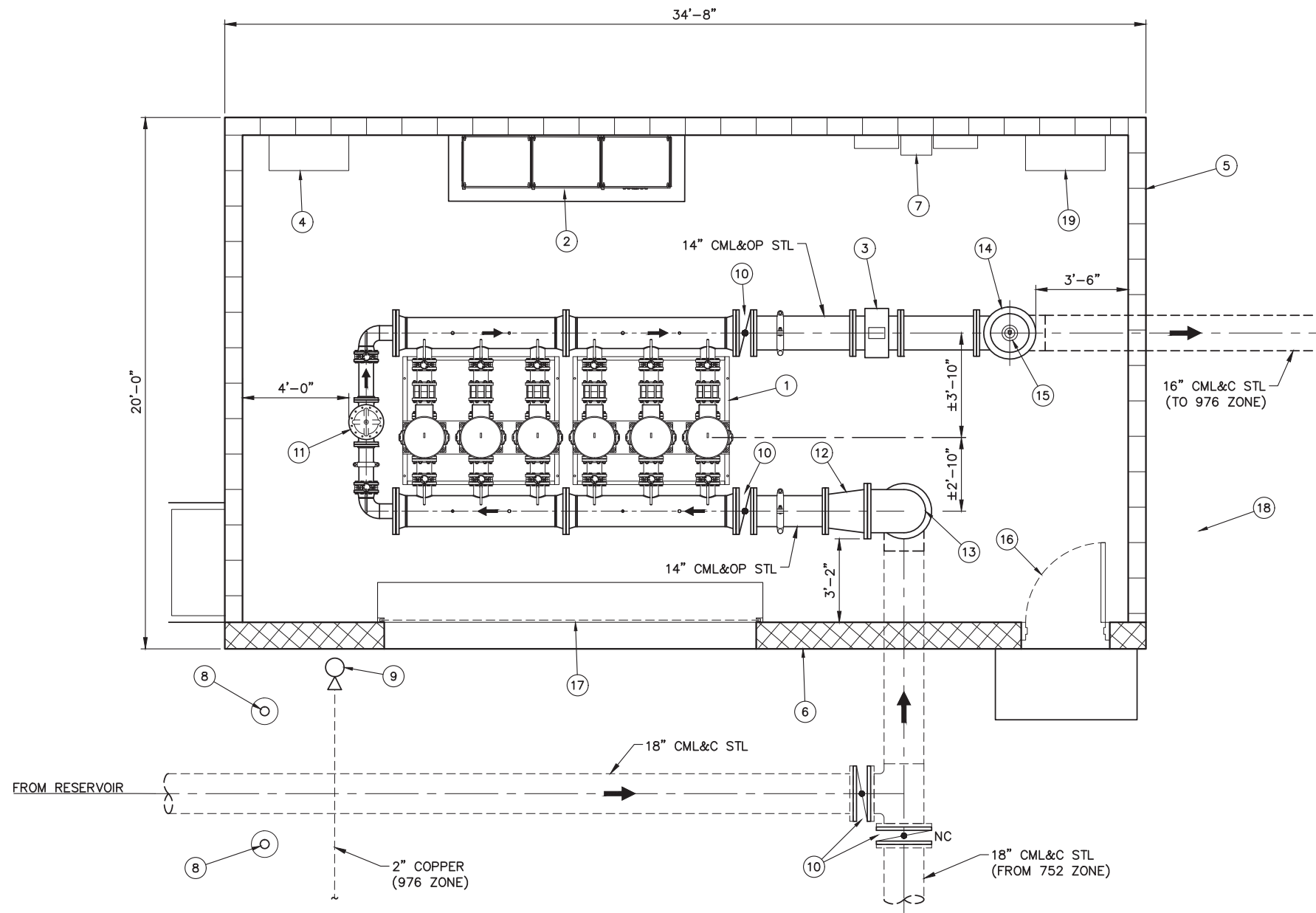
Edgehill (E) Reservoir Replacement and Pump Station

Criteria	Alternative 1B Cast-in-Place Concrete Hexagonal Reservoir	Alternative 3 Two Prestressed Circular Concrete Reservoirs
Required Demolition	Both alternatives require the same amount of demolition and disposal requirements. Alternative Neutral	
Pump Station and Valve Vault	The proposed pump station and valve vault for both alternatives are identical. Alternative Neutral	
Reservoir Storage Volume	Provides a storage volume of 2.92-MG and meets the storage volume objective of the District. Slightly Preferred Alternative	Provides a storage volume of 2.87-MG and meets the storage volume objective of the District.
Yard Piping and Valving	The yard piping and valving for this alternative is superior due to the reduced quantity and simplicity of the piping and valves. Preferred Alternative	This alternative has more extensive piping and valving increasing construction costs and operational complexity.
Operations/Operational Flexibility	This alternative is comprised of a single reservoir providing less operational flexibility. A wall and additional piping/valving could be incorporated to bifurcate the reservoir for greater operational flexibility. Alternative Neutral (with bifurcation of cast-in-place reservoir)	Superior operational flexibility is provided by this alternative because each reservoir can be taken offline individually allowing for continuous storage within the 752 pressure zone.
Grading and Drainage	This option is moderately superior due to the flatter slopes on site (fewer retaining walls and costs) and the reduced quantity of drainage conveyance facilities Preferred Alternative	This alternative requires additional drainage conveyance facilities and has steeper slopes requiring additional retaining walls (increased construction costs).
Permitting and Regulatory Compliance	Both alternatives are equally compliant and the same permits will be acquired for construction and operation of the proposed facility. Alternative Neutral	
Construction Sequencing and Duration	The same temporary facilities are required, but construction of the cast-in-place reservoir is expected require a longer duration than a single prestressed tank. This results in a longer storage outage for the 752 pressure zone	Construction of both prestressed reservoirs is expected to be longer than the single cast-in-place concrete alternative. However, construction of a single prestressed tank is expected to have a shorter duration than the cast-in-place tank resulting in a reduced storage outage for the 752 pressure zone Slightly Preferred Alternative
Construction Cost and Unit Cost	The estimated preliminary construction cost for this alternative is \$9.41 Million (\$3.22/ gallon - including pump station costs). Preferred Alternative	The estimated preliminary construction cost for this alternative is \$10.30 Million (\$3.58/ gallon - including pump station costs).

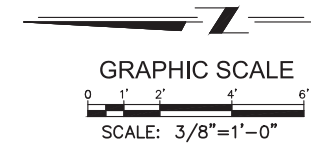
Exhibit E - Pump Station Plan

CONSTRUCTION NOTES

- ① PACKAGED PUMP STATION (3,000 GPM/230-FT HEAD) WITH SIX VERTICAL IN-LINE MULTI-STAGE PUMPS, 6" PUMP SUCTION WITH BUTTERFLY VALVE, 6" PUMP DISCHARGE WITH BUTTERFLY VALVE AND CHECK VALVE, 14" SUCTION AND DISCHARGE MANIFOLDS, AND PRESSURE TRANSMITTER
- ② PUMP STATION CONTROL PANEL
- ③ MAGNETIC FLOW METER
- ④ SCADA PANEL
- ⑤ 8" SLUMP BLOCK CMU WALL
- ⑥ 12" SLUMP BLOCK CMU WALL
- ⑦ MISCELLANEOUS ELECTRICAL PANELS
- ⑧ CONCRETE BOLLARD
- ⑨ HOSE BIBB
- ⑩ BUTTERFLY VALVE
- ⑪ 6" PRESSURE RELIEF BYPASS
- ⑫ 18" x 14" REDUCER
- ⑬ 18" 90 DEG BEND
- ⑭ 16" x 16" x 14" TEE WITH BLIND FLANGE
- ⑮ 2" AIR RELEASE VALVE
- ⑯ 3-FT WIDE MAN DOOR
- ⑰ 14-FT WIDE ROLL-UP DOOR
- ⑱ MAIN SERVICE ELECTRICAL BOX
- ⑲ DISTRIBUTION SWITCHBOARD



PLAN
SCALE: 3/8" = 1'-0"



NOTES:

1. CML&C STL = CEMENT MORTAR LINED AND COATED STEEL
2. CML&OP STL = CEMENT MORTAR LINED AND OUTSIDE PAINTED

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REV NUM	DESCRIPTION	DRWN BY	CHK'D BY	DATE

ATTENTION:
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" @ 22x34 or 1/2" @ 11x17, THEN DRAWING IS NOT TO SCALE - SCALE ACCORDINGLY

DUDEK
605 Third Street Encinitas, CA 92024
760.942.5147 Fax 760.632.0164

VISTA IRRIGATION DISTRICT
1391 ENGINEER STREET
VISTA, CA 92081
PH (760) 597-3100



DESIGNED:	NAH
DRAWN:	CS
CHECKED:	ADC
APPROVED:	
REFERENCE NO:	
PROJECT NO:	X-XXXX
SCALE:	AS SHOWN

E RESERVOIR AND PUMP STATION
PROJECT D-2346
PUMP STATION PLAN

DRAWING NUMBER
M-1
REV
A
XX OF XX



STAFF REPORT

Agenda Item: 9

Board Meeting Date: October 2, 2019
Prepared By: Lisa Soto
Approved By: Brett Hodgkiss

SUBJECT: BOARD MEETING START TIMES

RECOMMENDATION: Discuss a possible revision to the Board meeting start times currently set at 8:30 a.m. on the first and third Wednesdays of each month.

PRIOR BOARD ACTION: On April 2, 1997, the Board of Directors established the Board meeting start times to be 8:30 a.m. on both the first and third Wednesdays of each month.

FISCAL IMPACT: None.

SUMMARY: At its September 4, 2019 Board meeting, the Board requested a future agenda item to consider changing Board meeting start times. In the past, the Board has adopted its yearly Board meeting calendar with some start times adjusted to 9:00 a.m. to avoid conflicts with meetings of the North County Water Agencies group, which meets at 7:00 a.m. the Wednesday before the regular meetings of the San Diego County Water Authority Board of Directors on the fourth Thursday of each month.

DETAILED REPORT: Section 1.4.1 of the District's Rules and Regulations sets forth the Board meetings date, time, and place as follow:

1.4.1 Date, Time and Place of Board Meetings

The regular meetings of the Board of Directors of Vista Irrigation District shall be held on the first Wednesday of each month at the hour of 8:30 AM at the office of the District, 1391 Engineer Street, Vista, California. Regular adjourned meetings shall be held on the third Wednesday of each month at the hour of 8:30 AM at the office of the District.



Agenda Item: 10

STAFF REPORT

Board Meeting Date: October 2, 2019
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.



SUMMARY OF FORMAL BOARD OF DIRECTORS' MEETING
September 26, 2019

- 9-1. Amendment to Program Contract with San Diego Gas & Electric for the Residential Low-Income Water-Energy Collaboration.
 The Board authorized the General Manager to execute an amendment to increase the contract capacity of the Residential Low-Income Water-Energy Collaboration Program Contract (ESA) with San Diego Gas & Electric (SDG&E) by \$245,000, from \$150,000 to \$395,000.
- 9-2. Resolution for Integrated Regional Water Management Proposition 1 Implementation Grant.
 The Board adopted Resolution No. 2019-17 authorizing the General Manager or her designee to submit a 2019 Integrated Regional Water Management (IRWM) Proposition 1 Implementation Grant application for \$15,346,156, accept the grant funds that are awarded, and enter into contracts to distribute the funds to the project sponsors.
- 9-3. Professional services contracts with Capo Projects Group; Management Solutions, LLC; and MW Construction Services, Inc. for cost estimating and constructability review services, as-needed.
 The Board authorized the General Manager to award professional services contracts to Capo Projects Group for \$200,000; Management Solutions, LLC for \$200,000; and MW Construction Services, Inc. for \$200,000 for cost estimating and constructability review services, as-needed, for a period of four years.
- 9-4. Construction contracts and continuation of emergency declaration for the repair of Pipeline 4 in Moosa Canyon.
 The Board ratified the emergency contract with J.F. Shea Construction, Inc. in the amount of \$950,000 for the repair of Pipeline 4 in Moosa Canyon, ratified the emergency contract with Fibwrap Construction Services, Inc. in the amount of \$871,342 for the carbon fiber repair of Pipeline 4 in Moosa Canyon, and authorized the continuation of the emergency declaration for the repair of Pipeline 4 in Moosa Canyon.
- 9-5. Monthly Treasurer's Report on Investments and Cash Flow.
 The Board noted and filed the Treasurer's report.



STAFF REPORT

Agenda Item: 11.A

Board Meeting Date: October 2, 2019
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: October 2, 2019
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	Vista Chamber “Meet the Leaders” <i>Oct. 4, 2019 – Rancho Buena Vista Adobe, Vista</i> <i>Reservation deadline: Tickets are limited</i>	MacKenzie (R) Dorey (R)
2 *	Council of Water Utilities Meeting <i>Oct. 15, 2019 – The Butcher Shop Steakhouse, Kearny Mesa</i> <i>Reservation deadline: 10/10/19</i>	Vásquez
3	ACWA Regulatory Summit <i>Oct. 17, 2019 – Hilton Sacramento Arden West, Sacramento</i> <i>Reservation deadline: 10/11/19</i>	
4	Legislative Round-Up Webinar (CSDA) <i>Oct. 31, 2019 -10:00 a.m. – 12:00 p.m.</i> <i>Registration deadline: 10/24/19</i>	
5	Sexual Harassment Prevention Training AB 1661 <i>Nov. 4, 2019 – 2:00 p.m. – 4:00 p.m., VID Board Room</i> <i>Reservation deadline: None</i>	Miller (R) Vásquez (R) Dorey (R) Sanchez (R) MacKenzie (R)
6	Central Coast Tour (Water Education Foundation) <i>Nov. 6-7, 2019 – Begins and ends in San Jose</i> <i>Reservation deadline: 10/7/19</i>	
7 *	Council of Water Utilities Meeting <i>Nov. 19, 2019 – The Butcher Shop Steakhouse, Kearny Mesa</i> <i>Reservation deadline: 11/14/19</i>	
8 *	CSDA Quarterly Dinner Meeting <i>Nov. 21, 2019 – 6:00-9:00 p.m. – The Butcher Shop Steakhouse, Kearny Mesa</i> <i>Reservation deadline: 11/14/19</i>	MacKenzie
9	ACWA Fall Conference <i>Dec. 3-6, 2019 – Manchester Grand Hyatt, San Diego</i> <i>Registration deadline: 11/8/19</i>	MacKenzie (R, H) Dorey (R, H) Miller (R, H) Sanchez (R, H) Vásquez (R, H)
10	Colorado River Water Users Association Conference (CRWUA) <i>Dec. 11-13, 2019 – Caesars Palace, Las Vegas</i> <i>Registration deadline: 11/24/19</i>	Vásquez (T)
11	ACWA Spring Conference <i>May 5-8, 2020 – Monterey</i> <i>Registration deadline: TBD</i>	
12	Special Districts Legislative Days (CSDA) <i>May 19-20, 2020 – Sheraton Grand Sacramento</i> <i>Registration deadline: TBD</i>	

	SCHEDULE OF UPCOMING MEETINGS AND EVENTS	ATTENDEES
13	CSDA Annual Conference <i>August 24-27, 2020 – Palm Springs</i> <i>Registration deadline: TBD</i>	
14	ACWA Fall Conference <i>Dec. 1-4, 2020 – Indian Wells</i> <i>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: October 2, 2019
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:

- 2020 Board meeting dates
- Fees and charges other than water rates
- Triennial Public Health Goal report
- General Manager Performance Evaluation



Agenda Item: 13

STAFF REPORT

Board Meeting Date: October 2, 2019
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: October 2, 2019
Prepared By: Brett Hodgkiss

SUBJECT: COMMENTS BY GENERAL MANAGER

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

NOTICE OF ADJOURNED MEETING
OF THE BOARD OF DIRECTORS OF THE
VISTA IRRIGATION DISTRICT

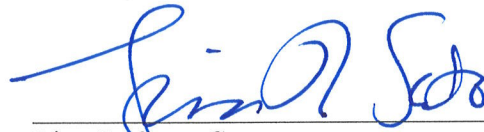
A REGULAR MEETING OF THE BOARD OF DIRECTORS OF VISTA IRRIGATION DISTRICT, HELD ON OCTOBER 2, 2019, WAS ADJOURNED UNTIL 8:30 AM, OCTOBER 16, 2019, AT THE OFFICE OF THE VISTA IRRIGATION DISTRICT, 1391 ENGINEER STREET, VISTA, CALIFORNIA.

* * * * *

AFFIDAVIT OF POSTING ORDER OF ADJOURNMENT OF MEETING

STATE OF CALIFORNIA)
COUNTY OF SAN DIEGO)

I, Lisa R. Soto, hereby certify that I am the duly appointed, qualified Secretary of the Board of Directors of Vista Irrigation District; that the foregoing is duly noted in the Minutes of said Regular Meeting of the Board of Directors of Vista Irrigation District; that said Regular Board Meeting was ordered adjourned to the time and place above specified; and that I posted a copy of this order of adjournment near the public entrance to the Board Room at the offices of the District.



Lisa R. Soto, Secretary
Board of Directors
Vista Irrigation District

POSTED: October 3, 2019