



PALMDALE WATER DISTRICT

A CENTURY OF SERVICE

BOARD OF DIRECTORS

ROBERT E. ALVARADO

Division 1

DON WILSON

Division 2

GLORIA DIZMANG

Division 3

KATHY MAC LAREN

Division 4

VINCENT DINO

Division 5

October 3, 2019

**AGENDA FOR A MEETING
OF THE RESOURCE RELIABILITY AND OPERATIONAL
EFFICIENCY COMMITTEE
OF THE PALMDALE WATER DISTRICT**
**Committee Members: Kathy Mac Laren-Chair, Robert Alvarado
to be held at the District's office at 2029 East Avenue Q, Palmdale**

TUESDAY, OCTOBER 8, 2019

3:00 p.m.

DENNIS D. LaMOREAUX

General Manager

ALESHIRE & WYNDER LLP

Attorneys

NOTE: To comply with the Americans with Disabilities Act, to participate in any Board meeting please contact Dawn Deans at 661-947-4111 x1003 at least 48 hours prior to a Board meeting to inform us of your needs and to determine if accommodation is feasible.

Agenda item materials, as well as materials related to agenda items submitted after distribution of the agenda packets, are available for public review at the District's office located at 2029 East Avenue Q, Palmdale (Government Code Section 54957.5). Please call Dawn Deans at 661-947-4111 x1003 for public review of materials.

PUBLIC COMMENT GUIDELINES: The prescribed time limit per speaker is three-minutes. Please refrain from public displays or outbursts such as unsolicited applause, comments, or cheering. Any disruptive activities that substantially interfere with the ability of the District to carry out its meeting will not be permitted, and offenders will be requested to leave the meeting. (PWD Rules and Regulations, Appendix DD, Sec. IV.A.)

Each item on the agenda shall be deemed to include any appropriate motion, resolution, or ordinance to take action on any item.

- 1) Roll call.
- 2) Adoption of agenda.
- 3) Public comments for non-agenda items.
- 4) Action Items: (The public shall have an opportunity to comment on any action item as each item is considered by the Committee prior to action being taken.)



- 4.1) Consideration and possible action on approval of minutes of meeting held August 6, 2019.
- 4.2) Discussion of water supply strategy for dry year(s). (Resource and Analytics Director Thompson II)
- 4.3) Discussion and identification of projects included in the 2019 Water Rate Study as part of the reinvestment back into the District's infrastructure. (Assistant General Manager Ly)
- 5) Information Items.
 - 5.1) Status of 2019 State Water Project allocation use. (Resource and Analytics Director Thompson II)
 - 5.2) Status on Littlerock Reservoir Sediment Removal Project. (Project Manager Thompson)
 - 5.3) Status on the Upper Amargosa Recharge Project. (General Manager LaMoreaux)
 - 5.4) Status on Palmdale Regional Groundwater Recharge and Recovery Project. (Engineering/Grant Manager Rogers)
 - 5.5) Other.
- 6) Board members' requests for future agenda items.
- 7) Date of next Committee meeting.
- 8) Adjournment.



DENNIS D. LaMOREAUX,
General Manager

DDL/dd

P A L M D A L E W A T E R D I S T R I C T
B O A R D M E M O R A N D U M

DATE:	October 2, 2019	October 8, 2019
TO:	RESOURCE RELIABILITY AND OPERATIONAL EFFICIENCY COMMITTEE	Committee Meeting
FROM:	Mr. Adam Ly, Assistant General Manager	
VIA:	Mr. Dennis D. LaMoreaux, General Manager	
RE:	<i>AGENDA ITEM NO. 4.3 – DISCUSSION AND IDENTIFICATION OF PROJECTS INCLUDED IN THE 2019 WATER RATE STUDY AS PART OF THE REINVESTMENT BACK INTO THE DISTRICT’S INFRASTRUCTURE. (ASSISTANT GENERAL MANAGER LY)</i>	

Recommendation:

Staff recommends the Committee complete a detailed review of critical projects included in the 2019 Water Rate Study.

Background:

The attached “Deferred Capital and Plant Expenditures Project Summary” will be reviewed in detail at the Committee meeting. Completion of all projects in the timeline outlined in the Summary is a goal of the Resource Reliability and Operational Efficiency Committee. These projects are critical for maintaining the District’s infrastructure and overall operations, and Option 1 of the 2019 Water Rate Study unanimously approved at the August 15, 2019 Special Board Meeting enables the District to complete these essential projects.

Strategic Plan Initiative/Mission Statement:

This item covers all initiatives in the District’s Strategic Plan.
This item directly relates to the District’s Mission Statement.

Budget:

The items included in the Deferred Capital and Plant Expenditures Project Summary will be included in the budget year shown for completion.

Supporting Documents:

- “Deferred Capital and Plant Expenditures Project Summary”

PALMDALE WATER DISTRICT
Calendar Year 2020+ Budget
Deferred Capital & Plant Expenditures Project Summary

<i>Year</i>	<i>Project Budget Requests (Not Committed)</i>	<i>Priority</i>	<i>Category</i>	<i>Project Type</i>	<i>Estimation</i>
Asset/Infrastructure Related Expense					
Pipeline Projects					
2021	P @ 10TH (LOCKHEED)	N	RCP	Replacement Cap.	182,000
2021	17TH FR P-4 TO P-8	N	RCP	Replacement Cap.	352,800
2020	WELL 17 YARD PIPING	N	RCP	Replacement Cap.	63,000
2020/2021	Pipeline Design	N	NCP	New Capital	500,000
2020	2800 Zone Avenue P-8 from 32nd St to 37 St. (2,675 feet of 12" Dia. Pipe)	N	RCP	Replacement Cap.	778,655
2020	Pipeline with Velocity Deficiency (23 feet of 20" diameter 2800 Zone)	N	RCP	Replacement Cap.	11,246
2020	Sierra Hwy. Tie-In and Abandonment (Harold Streets)	D	RCP	Replacement Cap.	142,000
2021	2800 Zone Avenue Q-6 between 12St East and 15th St. East (965 feet of 12"	N	RCP	Replacement Cap.	280,898
2021	Pipeline with Velocity Deficiency (96 feet of 16" diamter 2950 Zone)	N	RCP	Replacement Cap.	37,240
2021	Ave. Q1, Q2, Q3, Q4, & Q5 @ 5th St. E. Wtr Main Repl. (Spec 1603)	D	RCP	Replacement Cap.	86,000
2021	Ave. Q14 and 15th Street East Water Main Replacement	D	RCP	Replacement Cap.	56,700
2021	Ave. Q10 and 12th Street East Water Main Replacement	D	RCP	Replacement Cap.	47,000
2021	Ave. P-12, Division, 2nd, 3rd, Stanridge Water Main Repl.	D	RCP	Replacement Cap.	1,341,000
2022	25TH FR P TO P-8	N	RCP	Replacement Cap.	825,000
2022	CAMARES @ S	N	RCP	Replacement Cap.	52,500
2022	2950 Zone 52nd St North and Fort Tejon Road (1,570 feet of 16" Dia. Pipe)	N	RCP	Replacement Cap.	609,340
2022	Pipeline with Velocity Deficiency (1,350 feet of 24" diameter 2800 Zone)	N	RCP	Replacement Cap.	787,376
2023	20TH FR P-8 TO Q	N	RCP	Replacement Cap.	810,000
2023	Pipeline with Velocity Deficiency (516 feet of 20" diameter 2950 Zone)	N	RCP	Replacement Cap.	250,533
2023	26th St, Rudall, & 27th St @ Avenue Water Main Replacement	D	RCP	Replacement Cap.	91,000
2024	FT TEJON	N	RCP	Replacement Cap.	486,000
2024	3400 Zone Camares Drive between Sierra Ancha Drive and Avenue S-14 (1,4	N	RCP	Replacement Cap.	271,680
2024	Pipeline with Velocity Deficiency (231 feet of 24" diameter 2950 Zone)	N	RCP	Replacement Cap.	134,627
2023	2950 Zone Avenue S-10 and 40 St. East (48 ft. of 8" Dia. Pipe)	N	RCP	Replacement Cap.	9,315
				Subtotal:	8,205,910
Water Supply Projects					
2020	Recharge Project Design (PRGRRP) (3 years)	N	WS	Water Supply	3,000,000
2020	Annual Sediment Removal of 38,000 cubic yards (note potential grant cost s	N	O&M	O&M Funds	3,000,000
				Subtotal:	6,000,000
Well Projects					
2020	Well 23 Rehabilitation	N	RCP	Replacement Cap.	180,000
2020	CL2 Monitoring @ Well Sites	D	RCP	Replacement Cap.	110,000
2021	Well 2 Rehabilitation	D	RCP	Replacement Cap.	185,000
2020	Well 3 Rehabilitation	D	RCP	Replacement Cap.	190,000
2020	NaOCL Generator Replacement - (4 Wells)	D	RCP	Replacement Cap.	265,000
2020	Well 16 Rehabilitation	D	RCP	Replacement Cap.	120,000
2021	Well 33 Rehabilitation	D	RCP	Replacement Cap.	185,000
2020	Brine Storage Tanks - Well Sites (Qty. 8)	D	RCP	Replacement Cap.	130,000
2021	Well/Booster Rehab 2021 - 2024	N	RCP	Replacement Cap.	1,490,000
2024	Future Well # 36 (2850 Zone, Capacity 2,150 gpm, head of 455 feet, refer to	N	NCP	New Capital	750,000
2024	New Well # 28 on 70 St and Avenue S (2016 WSMP, Section 10)	N	NCP	New Capital	646,858
2024	New Well #27 on 70 St. north of Well #25 (2016 WSMP, Section 10)	N	NCP	New Capital	646,858
2024	New Well #34 on 60th St. E and half-way between Ave. S and Ave. T (2016 V	N	NCP	New Capital	646,858
				Subtotal:	5,545,574

Storage Tanks					
				Subtotal:	-
Booster Projects					
2020	Booster Building Rehab (5-years schedule)	N	RCP	Replacement Cap.	175,000
2020	45th St. Booster #3 Zone 3000	D	RCP	Replacement Cap.	25,000
2020	25th St. Booster #3	D	RCP	Replacement Cap.	18,000
2020	45th St. Booster #3 Zone 2800	D	RCP	Replacement Cap.	23,000
2022	Fire Pump Deficiency at Existing T-8 Pump Station (Zone 3250)	N	RCP	Replacement Cap.	937,944
2023	Fire Pump Deficiency at Existing 5MG Booster Pump Station (Zone 3250)	N	RCP	Replacement Cap.	689,982
2021	New Pump to 3600 Zone	N	NCP	New Capital	366,553
				Subtotal:	2,235,479
Water Treatment Plant Projects					
2020	Turbidimeter	N	RCP	Replacement Cap.	100,000
2020	AC Unit	N	NCP	New Capital	15,000
2020	Entry Buildings @ Filter and GAC Pipe Gallery Entrance	D	NCP	New Capital	50,000
2021	Hypo Generator	N	RCP	Replacement Cap.	800,000
2021	Influent Mag Meter 30"	N	RCP	Replacement Cap.	20,000
2022	Sedimentation Basin Cleaning	N	RCP	Asset Improvement	2,000,000
2022	Filter Influent Valve Replacements	N	RCP	Replacement Cap.	200,000
2022	TOC Analyzer	N	NCP	New Capital	120,000
2022	Septic Tank	N	RCP	Replacement Cap.	20,000
2023	Bathroom Remodel	N	RCP	Replacement Cap.	100,000
2023	WTP Kitchen Remodel	D	RCP	Replacement Cap.	50,000
	Effluent Vault Stair				
2020	TX Plant GAC Staging Area Pavement	N	RCP	Replacement Cap.	120,000
				Subtotal:	3,595,000

Project No.		Priority	Category	Project Type	
Asset/Infrastructure Related Expense (Continued)					
Facility Projects					
2020	Vault/Large Meter (~ 15/yr @ \$7500/setup for 5 years)	N	RCP	Replacement Cap.	562,500
2020	District Office - Stucco Repair & Painting	D	RCP	Replacement Cap.	215,000
2020	Parking Lot Resurfacing (Main Office)	D	RCP	Replacement Cap.	42,000
2020	Palmdale Ditch Improvements (5-years schedule)	N	RCP	Replacement Cap.	75,000
2020	District Office Fire System upgrade w/control panel changeout	D	RCP	Replacement Cap.	42,000
2021	Ware House Conversion to Office & Fleet Shop Repairs	N	NRE	Replace/New Equip.	50,000
2021	Carpet, Tile and Painting of District Building	D	RCP	Replacement Cap.	150,000
2021	Parking Lot Re-Surfacing - Administration and N.O.B.	D	RCP	Replacement Cap.	130,000
2021	Radio System for SCADA (4 year replacement schedule)	N	NRE	Replace/New Equip.	200,000
2024	Emergency Power to NOB	N	RCP	Replacement Cap.	25,000
2020	Meter Replacement Program 2020-2021	N	RCP	Replacement Cap.	1,400,000
				Subtotal:	2,891,500
Equipment					
2020	Replacement Diaphragm Pump (4 pumps)	N	NRE	Replace/New Equip.	32,000
2020	Soft Starts (22 well & 11 booster)	N	RCP	Replacement Cap.	160,000
2020	Replacement Wackers - J Tamps (4-years schedule)	N	NRE	Replace/New Equip.	16,000
2020	Truck mounted welder for truck 115	D	NRE	Replace/New Equip.	5,000
2020	Radio System Upgrades for District	D	RCP	Replacement Cap.	81,000
2020	Hydraulic Concrete Breaker w/attachment for skidsteer	D	NRE	Replace/New Equip.	7,000
2021	Replace SCADAPack 32 with SCADAPack 575 (4-year schedule)	N	NRE	Replace/New Equip.	175,000

2021	Cooling Unit for Fab Shop	N	NRE	Replace/New Equip.	4,500
2022	Radar Level Sensor (3 year roll-out)	N	NRE	Replace/New Equip.	120,000
2023	Littlerock Insertion Mag Meter @ Well 5	D	NRE	Replace/New Equip.	32,000
2023	Engine Swap for efficiency @Well 2	N	RCP	Replacement Cap.	225,000
2023	Trailer Hot Water Pressure Washer	D	NRE	Replace/New Equip.	20,000
2023	Hydraulic Post Hole Digger (Skid Steer Attachment)	D	NRE	Replace/New Equip.	3,000
2021	Bucket Truck (Looking at Lease Option)	D	NRE	Replace/New Equip.	75,000
2020	Trailer mounted vac/pressure washer	N	NRE	Replace/New Equip.	145,000
2024	Outfit welding trailer	N	NRE	Replace/New Equip.	25,000
2024	V-24 1988 Crane - Newer Crane	N	NRE	Replace/New Equip.	150,000
2021	Cat C-7 engine rehab (1 each year for total 2)	N	RCP	Replacement Cap.	30,000
2022	Cat C-7 engine rehab (2)	N	RCP	Replacement Cap.	30,000
2024	Electric forklift for WTP	N	NRE	Replace/New Equip.	15,000
				Subtotal:	1,350,500
Vehicle Replacements					
2020	V-7 Replacement	N	NRE	Replace/New Equip.	23,000
2020	V-84 Replacement	N	NRE	Replace/New Equip.	23,000
2020	V-82 2004 PU - Traffic Control - Overload	N	NRE	Replace/New Equip.	55,000
2021	V-67 1999 Water Truck	N	NRE	Replace/New Equip.	65,000
2020	V-80 2003 PU	N		Lease	-
2020	V-99 2007 PU	N		Lease	-
2020	V-110 2007 PU	N		Lease	-
2021	V-35 Replacement	N	NRE	Replace/New Equip.	23,000
2021	V-60 1998 Utility	N	NRE	Replace/New Equip.	23,000
2021	V-101 2007 Cat 420E Backhoe	N	NRE	Replace/New Equip.	160,000
2021	V-04 1991 Dump Truck	N	NRE	Replace/New Equip.	65,000
2021	V-68 1999 Utility	N		Lease	-
2022	V-100 Replacement	N	NRE	Replace/New Equip.	23,000
2022	V-119 2008 Cat 420E Backhoe	N	NRE	Replace/New Equip.	160,000
2022	V-43 1990 Flatbed w/liftgate	N	NRE	Replace/New Equip.	45,000
2022	8 Passenger Van	N		Lease	-
2022	V109 2007 Van	N		Lease	-
2023	V-03 2000 Cat 4 416C Backhoe	N	NRE	Replace/New Equip.	160,000
2024	V-66 1993 JD Loader	N	NRE	Replace/New Equip.	140,000
2024	V-83 2004 PU	N		Lease	-
	V-17 1995 PU	N		Lease	-
	V-22 1996 PU	N		Lease	-
				Subtotal:	965,000
Safety					
2020	Emergency Supplies	N	NRE	Replace/New Equip.	1,500
2020	Arc Flash Study	N	CES	Studies & Planning	120,000
2020	Ergonomic Retrofit of CC workstation w/Expert Evaluation	N	CES	Studies & Planning	75,000
2020	Hazard Mitigation Plan	N	CES	Studies & Planning	100,000
	Little Rock Dam Stair	D			
	Reservoir Top Safety Retrofit	D			
				Subtotal:	296,500

<i>Information Technology</i>					
2020	Public Web Site Redesign	N	CES	Studies & Planning	75,000
2020	Intranet Redesign	N	CES	Studies & Planning	50,000
2020	Human Resources Information System	N	CES	Studies & Planning	60,000
2020	Personnel Emergency Notification System	N	CES	Studies & Planning	40,000
2022	Citrix - Seamless apps across multiple platforms	D	CES	Studies & Planning	50,000
2020	Replace EOL Oasis recorder	D	NRE	Replace/New Equip.	25,000
2022	Data Center UPS System (Symmetra)	D	CES	Studies & Planning	25,000
2020	GIS enhancement (5-years Conversion)	N	CES	Studies & Planning	375,000
2021	Data Warehousing	N	NRE	Replace/New Equip.	60,000
2021	Mass Communications	N	NRE	Replace/New Equip.	60,000
2021	Customer Mobile App	N	NRE	Replace/New Equip.	25,000
2021	GIS Drone	N	NRE	Replace/New Equip.	15,000
2021	Cameras for Dam & Windmill	N	NRE	Replace/New Equip.	8,000
2021	Gig to desktop/Infrastructure Refresh (4 years roll-out)	N	CES	Studies & Planning	200,000
	Smart Meter Deployment	D		Studies & Planning	
				Subtotal:	1,068,000

Total Asset/Infrastructure Project Requests 32,153,463

Bond Finance 17,979,717