#### **NOVEMBER 2019 LEVEE SUPERENTENDENT JOE BRYSON 1608**

- 1. Levee patrol, started pump and clean area four times. Checked for homeless and trash at I-5 and Plymouth gates. Opened gates for contractors.
- 2. The pipe job North West is finished. They did a good cleanup job.
- 3. I had identification badges done for Gabe and me. These will be used when knocking on doors.
- 4. Had a young man living at Grupe Park.
- 5. Caltrans hired a contractor to install fences and gate down to the water West I-5.
- 6. Have not finished blacktop, rain. We are going to crown the blacktop.
- 7. The crack job came out good.
- 8. Lincoln Marina Plants
- 9. Gophers North East in two places, vegetation at levee ground
- 10. Frank and Christine Freni, 4263 Five Mile Drive, redid stepping stones on up to ground side of levee.
- 11. KSN new home owner.
- 12. Spot on water side South East, West I-5, KSN is coming out to give instruction.
- 13. Many dead fish Five Mile and in front of Fourteen Mile at Weir. Fifty seagulls and Buzzards came in. Fish are gone.
- 14. Lots of Halloween on North West Levee.
- 15. We will be inspecting South West Levee, Grupe Park too Marina this month.
- 16. I am having the pump Grupe Park inspected Thursday.

P.O. Box 4857 Stockton, CA 95204

# Reclamation District (608

November 2016

## Dear Homeowners and Businesses:

Your ongoing support in maintaining our levee system that protects Lincoln Village West residents and property owners is very much appreciated. Daily vigilance is imperative.

Joe Bryson, our levee superintendent, is on the levees daily to monitor the area and ensure that levee encroachment standards are being adhered to. Your help in maintaining those standards is always appreciated. Do call Joe at (209) 298-3307 if you notice any problems, unusual activity, or dumped trash or have any questions about what is or is not permitted.

Thank you for helping to keep our 3.34 miles of levees safe for each of you, your families, and our community.

Sincerely,
Board of Trustees
Reclamation District 1608

find a detailed listing of encroachment standards and requirements for a permit application for an encroachment. While an encroachment may seem minor to a resident or property owner, every contemplated encroachment does require a review and consideration of a permit.

The District's Emergency Operations Plan for responding to a flood emergency is outlined in the website. Detailed in the Plan are flood preparedness, flood fight methods, flood water removal, and recovery and after-action procedures. You will also find a flood contingency map that identifies the special considerations that would implemented in the event of a flood; an evacuation plan; a communications plan; and a levee patrol plan that would be launched in the event of a flood or impending flood. A flood fight history is also included.

Your observations and comments on the Emergency

Operations Plan can be very helpful, as the District Board members review the plan annually.



# WWW.RD1608.COM

Emergency plans are now online. We encourage you to visit www.RD1608.com.

At the website, you will also find past newsletters, agendas and minutes of RD 1608 Board of Trustees meetings, Board meeting dates, a list of the Board members, and contact information for the RD 1608 superintendent, Joe Bryson. Also, you will

# Keeping Levees Clean and Clear

Dumped garbage, trash, and other items are a problem—and not just unsightly. Should a need arise, emergency responders must be able to safely and quickly move through the levee system. Call Joe Bryson immediately if you observe items being dumped on the levee or that have been

left on the levee. Also, do call Joe if you observe tents or other encampments on the levee.

And, please, do not store lawn chairs, your BBQ, or other items on the levee. Do keep your possessions off the levee and within your own property lines.

# **Activity on The Levees**

Accessibility to levee sections varies. Some sections can be walked on. Some cannot. If you are unsure, check with Joe before walking, running, or bicycling on a levee section.

Please, do not plant any vegetation on the levees. Levees must be kept clear to permit inspections of their slopes to ensure that no leaks are present and or other conditions that might allow leaks to form.

Observe the signs. Superintendent Joe Bryan will be placing signs in levee areas that are not accessible to walkers, runners, or bicyclists.

Also, contact Joe immediately if you see any homeless or other encampments on the levee. They must be removed to ensure the safety of the entire levee system. Call Joe if you observe damaged fencing or gates. Your vigilance is appreciated.

# **Animal Activity**

Please be aware that damage by rats, beavers, gophers, squirrels, and other animals endangers the integrity of our levees. If you see any of these critters, let Joe know.

# **Permit Reminders**

Permits are required for planting trees, shrubbery, or

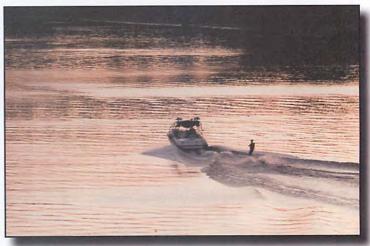
other vegetation. Permits are required for large pieces of play equipment and for any type of construction within the district easement or property line. One example: replacing an existing fence. Feel free to call Joe, who can help guide you through the permit process.

# **Ouestions? Comments?**

Feel free to call the District Hotline at (209) 298-3307 with any comments, suggestions, or questions.

You are also welcome to attend the District Board of Trustees meetings, which are held the first Wednesday of each month at 8:00 a.m. in the offices





of Neumiller & Beardslee, 509 West Weber Avenue, 5th Floor, Stockton. An opportunity for public comment is offered at each board meeting.

## CONTACT INFORMATION

DISTRICT TRUSTEES Michael Panzer, D.D.S., President Drew Meyers Brett L. Tholborn, C.P.A.

DISTRICT SUPERINTENDENT/ HOTLINE

Joe Bryson (209) 298-3307

ATTORNEY FOR THE DISTRICT Dan Schroeder (209) 948-8200

CONSULTING ENGINEERS Christopher H. Neudeck (209) 946-0268 Kjeldsen, Sinnock & Neudeck

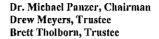


	Actual une 2013	ΥE	Actual June 2014	ΥE	Actual June 2015	st / Actual June 2016		Budget YE June 2017
Receipts								
Assessments	325,547		293,745		290,322	298,000		298,000
Property Tax	173,315		163,447		180,039	200,000	•	200,000
Interest	5,153		4,171		4,773	5,000		5,000
Levee Subvention Reimbursement						93,904		93,904
Property Tax Relief	1,972		1,903		-			
	\$ 505,987	\$	463,266	\$	475,134	\$ 596,904		596,904
Disbursements								
Salaries and Benefits								
Salaries and Wages Auto Allow.	61,531		57,573		55,696	58,000	x	58,000
Part Time Employee						26,000	x	26,000
Payroll Taxes	5,201		4,564		6,335	6,300	x	6,300
Total Salaries and Benefits	\$ 66,732	\$	62,137	\$	62,031	\$ 90,300		\$ 90,300
Services and Stores								
County Tax Administration	3,601		3,617		3,557	7,250	x	7,250
County Office Expense	3,309		3,271		3,407			
District Vehicle - Fuel / Maintenance						5,600	x	5,600
Insurance						2,000	x	2,000
Emergency Equipment and Supplies						1,000	x	1,000
General Engineering	281,746		158,029		48,041	95,000	x	120,000
Assessment Engineering						5,500		5,500
Construction Engineering								
Engineering - Sediment Removal Project						25,000		
Engineering - Letter of Map Revision								
Insurance	12,824		13,926		12,453	9,000	x	9,000
Workers Compensation Insurance						8,750		8,750
Legal and Accounting Fees	44,541		42,442		39,191	55,000	x	55,000
Auditing						3,200		3,200

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Levee Repairs - Operation & Maintenance		91,346	21,518	29,982		85,000	х		135,000
Fenses and Gates		•	,			25,000			25,000
Garbage Service						2,400			2,400
Locks and Signs						2,000			2,000
Misscellaneous		253	1,393			-			,
Office Expense				280		<i>750</i>	х		750
Other Repairs and Maintenance		69,283	20,629	12,408					
Public Relations		4,372	4,310	1,096		9,000	x		9,000
Secretary Fees		7,578	8,050	7,267		9,000	x		9,000
Storage		800	800	825					·
Telephone		1,391	1,364	9		1,700	x		1,700
Trustee Fees		4,100	5,255	3,200		6,000	x		6,000
Utilities / Pump Maintenance		264	518	174		500	x		500
Weed Control		9,850	16,630	16,495		15,000	x	**	
Total Services and Stores	\$ 5	35,258	\$ 301,752	\$ 178,385	\$	373,650	•	\$	408,650
Contract									
Levee Repair - Capital Improvement Projects									
Special Projects		10,464	30,000	39,504					
Contract	\$	10,464	\$ 30,000	\$ 39,504					
Fixed Assets									
Purchase of District Vehicle				27,339					
				\$ 27,339	•				
Total Disbursements	\$ 6	12,454	\$ 393,889	\$ 307,259	\$	463,950		\$	498,950
Cash Basis Fund Balance Beginning of Year	1,8	03,467	1,697,000	1,724,726		1,892,601			
Excess Receipts over Disbursements	(1	06,467)	69,377	167,875		132,954			
Adjustment for changes in Accounting Basis	•	•	(41,651)	-		•			
	\$ 1,69	97,000	\$ 1,724,726	\$ 1,892,601		2,025,555			



# RECLAMATION DISTRICT NO. 1608 LINCOLN VILLAGE WEST

Daniel J. Schroeder, Attorney Jean L. Knight, Secretary Christopher H. Neudeck, Engineer Joe Bryson, Superintendent

# BOARD OF TRUSTEES MEETING WEDNESDAY NOVEMBER 3, 2016 8:00 A.M. ENGINEER'S REPORT

#### I. DELTA LEVEE SUBVENTIONS PROGRAM AB 360

A. Review the District's Final Claim for Fiscal Year 2015/16 and seek signature from Chairman for submittal to DWR.

TOTAL FINAL CLAIM	\$201,938.23
LESS DISTRICT SHARE (1,000/MILE @ 3.6	\$3,600.00
miles)	
TOTAL ELIGIBLE	\$198,338.23
MAX REIMBURSEMENT = 75% OF ELIGIBLE	\$148,753.67

B. Review the status of the City of Stockton's stormwater discharge pipe replacement through levee from the North Lake system.

#### II. SEDIMENT REMOVAL PROJECT

A. Review with the Board of Trustees the task and scope that needs to be evaluated in order to provide a reliable project estimate. Discuss project design elements and our plan to work with Legal Counsel to evaluate District reserves and budgetary constraints.

EXHIBIT A: 20 Year projected Income & Expense for RD 1608 for completing the sediment removal project up to Grupe Park.

EXHIBIT B: 20 Year projected Income & Expense for RD for completing the Sediment Removal Project up to the District Boundary on Fourteenmile Slough.

PRESENTATION OF 20 YEAR PROJECTED INCOME & EXPENSE EXHIBITS FOR RD 1608 ON THE OVERHEAD PROJECTOR SCREEN.

#### III. FEMA MAPPING STATUS

**A.** Review ongoing status and progress of preparation of the Letter of Map Revision (LOMR) application for District's response to FEMA regarding the

mapping status of the District's levee system. Review status of signature on MT-2 form signed from the City of Stockton on October 21, 2016.

EXHIBIT C: Signed FEMA LOMR Submittal MT-2 Form

# A

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	10.0		Y 2016-2017 FY	/ 2047 2040 F	V 2010 2010 E	V 2010 2020 EV	2020 2024 E	7 2021-2022 FY	2022-2023 EV	(2023-2024 F	/ 2024-2025 F1	Y 2025-2026	FY 2026-2027 F	2027-2028 F	2028-2029 FY	2029-2030 FY	Y 2030-2031 FY	2031-2032 F	Y 2032-2033 F	Y 2033-2034 F	Y 2034-2035 F	Y 2035-2036
OPERATION AND MAINTENANCE EXPENSE		Y 2015-2016 F	Y 2016-2017 FY	2017-2018	1 2016-2019		11111000			de comme			100000	2000	72.072.0	97 720 \$	90,362 S	93,073 S	95,865 S	98,741 S	101,703 \$	104,754
Levee Superintendent	5	58,000 \$	59,740 S	61,532 \$	63,378 \$	65,280 S	67,238 \$	69,255 \$	71,333 \$ 31,977 \$	73,473 S 32,936 S	75,677 S 33,924 S	77,947 S 34,942 S	80,286 \$ 35,990 \$	82,694 \$ 37,070 \$	85,175 \$ 38,182 \$	87,730 \$ 39,327 \$	40.507 \$	41,722 \$	42,974 S	44,263 S	45,591 S	46,959
Part Time Employees	S	26,000 S	26,780 S 6,552 S	27,583 \$ 6,814 \$	28,411 S 7,087 S	29,263 \$ 7,370 \$	30,141 S 7,665 S	31,045 \$ 7,972 \$	8,290 S	8,622 \$	8,967 \$	9,326 \$	9,699 \$	10,087 S	10,490 \$	10,910 S	11,346 S	11,800 S	12,272 \$	12,763 \$	13,273 \$	13,804
Payroll Taxes and Expenses Fences & Gales	5	6,300 S 5,000 S	5.000 S	5,000 S	5,000 \$	5,000 S	5,000 S	5,000 S	5,000 S	5,000 S	5,000 \$	5,000 \$	5,000 \$	5,000 \$	5,000 \$	5,000 \$	5,000 \$	5,000 \$	5,000 \$ 3,896 \$	5,000 S 4,052 S	5,000 \$ 4,214 \$	5,000 4,382
Locks & Signs	S	2,000 5	2,080 S	2,163 \$	2,250 S	2,340 S	2,433 S	2,531 \$	2,632 \$	2,737 S	2,847 S	2,960 \$	3,079 \$	3,202 \$ 26,938 \$	3,330 \$ 28,285 \$	3,463 \$ 29,699 \$	3,602 S 31,184 S	3,746 S 32,743 S	34,380 \$	36,099 \$	37,904 \$	39,799
Weed and Rodent Control & Clean Up		15,000 S	15,750 S	16,538 \$	17,364 \$	18,233 \$	19,144 S 95,721 S	20,101 \$ 100,507 \$	21,107 S 105,533 S	22,162 S 110,809 S	23,270 S 116,350 S	24,433 S 122,167 S	25,655 \$ 128,275 \$	134,689 \$	141,424 \$	148,495 S	155,920 S	163,716 S	171,901 \$	180,496 \$	189,521 \$	198,997
Levee Repair Fund (General Operations & Ma		75,000 S	78,750 S 125,000 S	82,688 S 250,000 S	86,822 \$	91,163 \$ 50,000 \$	95,721 S	- S	55,000 S	- S	- S	60,000 \$	- S	- S	65,000 \$	- S	- S	70,000 \$	- S	- S	75,000 \$	002
Levee Repair Fund (Levee Capital Improvem Pump System Maintenance	ent Projects) (Note 2) 5	500 S	515 \$	530 \$	546 \$	563 S	580 S	597 \$	615 \$	633 S	652 \$	672 S	692 S	713 \$	734 \$	756 S	779 S	802 \$ 2,728 \$	826 \$ 2,810 \$	851 S 2,894 S	877 S 2,981 S	903 3,070
Wireless Services (Cell and Mobile Computer	) 5	1,700 S	1,751 S	1,804 \$	1,858 \$	1,913 S	1,971 S	2,030 \$	2,091 \$	2,154 S	2,218 \$ 1,000 \$	2,285 \$ 1,000 \$	2,353 \$ 1,000 \$	2,424 S 1,000 S	2,497 \$ 1,000 \$	2,571 S 1,000 S	2,649 S 1,000 S	1,000 \$	1,000 S	1,000 S	1,000 \$	1,000
Emergency Equipment & Supplies	\$	1,000 \$	1,000 S	1,000 \$ 2,546 \$	1,000 \$ 2,623 \$	1,000 \$ 2,701 \$	1,000 \$ 2,782 \$	1,000 S 2,866 S	1,000 S 2,952 S	1,000 S 3,040 S	3,131 \$	3,225 \$	3,322 \$	3,422 \$	3,524 \$	3,630 \$	3,739 \$	3,851 \$	3,967 S	4,086 \$	4,208 S	4,335
Garbage Service District Vehicle (Fuel, Maintenance & Repairs)	S .	2,400 S 5,600 S	2,472 S 5,824 S	6,057 S	6,299 \$	6,551 S	6,813 S	7,086 \$	7,086 \$	7,369 S	7,369 \$	7,664 \$	7,664 \$	7,971 S	7,971 S	8,289 \$	8,289 S	8,621 \$	8,621 \$	8,966 S 399,211 S	8,966 S 490,239 S	9,324
District Verlicle (Foet, Maintenance & Repairs,	SUBTOTAL \$	198,500 S	331,214 S	464,255 S	222,637 \$	281,377 \$	240,488 \$	249,990 \$	314,614 \$	269,935 S	280,405 S	351,622 \$	303,015 \$	315,209 \$	392,611 \$	340,872 \$	354,377 \$	438,802 \$	383,512 \$	399,211 3	490,239 3	432,328
GENERAL EXPENSE	0,240,400,010			1225	24		0.000 5	0.000 5	6,000 \$	6,000 S	6,000 S	6,000 \$	6,000 \$	6,000 S	6,000 S	6,000 S	6,000 S	6,000 \$	6,000 \$	6,000 \$	6,000 S	6,000
Trustee Fees	5	6,000 \$	6,000 S 9,270 S	6,000 S 9,548 S	6,000 \$ 9,835 \$	6,000 S 10,130 S	6,000 \$ 10,433 \$	6,000 \$ 10,746 \$	11,069 \$	11,401 S	11,743 \$	12,095 S	12,458 S	12,832 \$	13,217 S	13,613 \$	14,022 S	14,442 \$	14,876 S	15,322 \$	15,782 \$	16,255
Secretary Fees Office Expenses (includes storage facility)	\$	9,000 S 750 S	773 S	796 \$	820 \$	844 S	869 \$	896 \$	922 \$	950 S	979 \$	1,008 \$	1,038 S	1,069 \$	1,101 S	1,134 \$	1,168 S	1,204 \$	1,240 S 90,907 S	1,277 S 93,634 S	1,315 \$ 96,443 \$	1,355 99,336
General Legal	S	55,000 S	56,650 S	58,350 \$	60,100 S	61,903 \$	63,760 S	65,673 \$	67,643 \$	69,672 5	71,763 \$	73,915 \$	76,133 S 3,979 S	78,417 S 4,058 S	80,769 S 4,140 S	83,192 S 4,222 S	85,688 \$ 4.307 \$	88,259 \$ 4,393 \$	4,481 \$	4,570 S	4,662 S	4,755
Audit	S	3,200 \$	3,264 \$	3,329 \$	3,396 \$	3,464 S 8,481 S	3,533 \$ 8,821 \$	3,604 \$ 9,174 \$	3,676 S 9,541 S	3,749 S 9,922 S	3,824 \$ 10,319 \$	3,901 S 10,732 S	11,161 S	11,607 \$	12,072 S	12,555 \$	13.057 S	13,579 \$	14,122 \$	14,687 \$	15,275 \$	15,886
County Administration Costs	S	7,250 S 9,000 S	7,540 S 9,360 S	7,842 \$ 9,734 \$	8,155 \$ 10,124 \$	10,529 S	10,950 \$	11,388 \$	11,843 S	12,317 S	12,810 \$	13,322 \$	13,855 \$	14,409 \$	14,986 S	15,585 S	16,208 S	16,857 \$	17,531 \$	18,232 \$	18,962 \$	19,720 13,002
Liability Insurance Workers Comp Insurance	S	8.750 S	8,925 S	9,104 S	9,286 \$	9,471 S	9,661 \$	9,854 \$	10,051 \$	10,252 S	10,457 \$	10,666 \$	10,880 S	11,097 S	11,319 \$	11,545 \$ 2,639 \$	11,776 S 2,692 S	12,012 \$ 2,746 \$	12,252 \$ 2,800 \$	12,497 \$ 2,856 \$	12,747 S 2,914 S	2,972
Automobile Insurance	S	2,000 S	2,040 S	2,081 \$	2,122 \$	2,165 \$	2,208 \$	2,252 \$	2,297 \$	2,343 \$	2,390 \$	2,438 S 31,500 S	2,487 S	2,536 S 31,500 S	2,587 S	31,500 S	- S	31,500 \$	- \$	31,500 \$	- \$	31,500
Election Costs (Note 3)	S	9.000 \$	9,000 S	31,500 \$ 9,000 \$	9,000 \$	31,500 9,000 S	9,000 S	31,500 \$ 9,000 \$	9,000 \$	31,500 S 9,000 S	9,000 \$	9,000 \$	9,000 \$	9,000 \$	9,000 \$	9,000 \$	9,000 \$	9,000 \$	9,000 \$	9,000 \$	9,000 \$	9,000
Newsletter & Public Communications	SUBTOTAL S	109,950 S	112.822 S	147,283 \$	118,837 \$	153,487 \$	125,236 S	160,086 S	132,042 \$	167,107 S	139,284 \$	174,578 S	146,990 S	182,527 S	155,191 \$	190,987 \$	163,919 \$	199,991 \$	173,209 S	209,576 S	183,098 \$	219,780
ENGINEERING EXPENSE	OGDIOIAL 8	.00,000							101	100 001 -	402 000 8	101.000	10E 000 F	107.048 S	108,119 \$	109,200 S	110,292 \$	111,395 S	112,509 \$	113,634 \$	114,770 S	115,918
General Engineering	S	95,000 \$	95,950 S	96,910 \$	97,879 \$ 5,837 \$	98,857 \$ 5,953 \$	99,846 S 6,072 S	100,844 \$ 6,194 \$	101,853 \$ 6,318 \$	102,871 S 96,000 S	103,900 S 6,570 S	104,939 S 6,702 S	105,988 \$ 6,836 \$	6,973 \$	7,112 \$	7,254 \$	7,399 S	7,547 S	7,698 \$	7,852 S	8,009 \$	8,170
Assessment Engineering (Note 4)	S	5,500 S 25,000 S	5,610 S	5,722 \$ 452,800 \$	1,495,000	5,953 \$	0,072 3	6,194 3	0,310 3	50,000	0,070 0	0,702	2,777	400.00					100.000	404 400 0	100 700 6	124,088
Sediment Removal Project (Note 5)	SUBTOTAL S		101,560 S	555,432 \$	1,598,715 \$	104,811 S	105,918 \$	107,038 \$	108,171 \$	198,871 S	110,471 \$	111,641 \$	112,824 \$	114,021 \$	115,231 \$	116,454 \$	117,691 S	118,942 \$	120,207 \$	121,486 \$	122,780 \$	124,000
WARRANT INTEREST EXPENSE	e e				62.500 \$	40,625 S	28,125 \$	15,625 \$	6,250 \$	- S	- \$	- \$	- S	- S	- \$	- S	- S	- S	- \$	- S	÷ \$	-
Warrant Interest Expense	SUBTOTAL \$	- 5	- S	- \$	118,750 S	40,625 S	28,125 S	15,625 \$	6,250 \$	- S	- \$	- S	- \$	- \$	- \$	- \$	- S	- \$	- S	- \$	- 5	
SHARED DISTRICT EXPENSE  Rec Dist. 2119 - Wright Elmwood	S	- S	- S	- \$	- \$	- S	- S	- S	- S	- 5	- S	- S	- S	- \$	- S	- S	- S	- 5	- S	- S	- S	
4	SUBTOTAL \$	- \$	- \$	- \$	- \$	- S	- \$	- 5	- 5	- 5	- S	- 3	- 3	., .,	- 3				7.74			
	TOTAL EMPENSES S	433.950 \$	EAE EOG E	1,166,970 \$	2.058.940 \$	580,299 \$	499,767 \$	532,739 \$	561,077 \$	635,914 \$	530,160 \$	637,840 \$	562,830 \$	611,756 \$	663,033 \$	648,313 \$	635,987 \$	757,736 \$	676,928 \$	730,274 \$	796,117 \$	776,197
INCOME	TOTAL EXPENSES \$	455,950 \$	343,350 \$	1,100,570 \$	2,000,040 \$	000,200 +	Jackson, 4	The state of the s					1000	- 50000	St. 5.200	AND THE WO	- 20 Salv Sa	2000	200.001.0	000 000 5	044 000 6	244 020
Property Taxes	S	200,000 \$	202,000 \$	204,020 \$	206,060 S	208,121 S	210,202 \$	212,304 \$	214,427 \$	216,571 \$	218,737 \$	220,924 5	223,134 \$	225,365 \$	227,619 S	229,895 S	232,194 S	234,516 \$	236,861 \$	239,229 \$		244,038 6,101
Interest Income	S	5.000 S	5,050 \$	5,101 \$	5,152 S	5,203 S	5,255 \$	5,308 \$	5,361 \$	5,414 \$	5,468 \$	5,523 \$	5,578 \$	5,634 S	5,690 \$	5,747 S	5,805 S	5,863 S	5,922 \$ 298,000 \$	5,981 \$ 298,000 \$	6,041 \$ 298,000 \$	298,000
Assessments (Note 6)	S	298,000 S	298,000 \$	298,000 \$	298,000 \$	298,000 \$	298,000 \$	298,000 \$	298,000 S	298,000 \$	298,000 \$	298,000 \$		298,000 \$	298,000 \$	298,000 \$	298,000 S 265,434.64 S	298,000 \$	295,000 S 285,873.86 S		364,387.60 S	A Company of the Comp
Subvention Reimbursement (Note 7)	S	93,904 \$	255,569.25 \$	354,892.66 \$	173,199.04 S	216,748.96 \$	185,553.43 \$	192,124.03 S	240,222.87 \$	206,112.62 \$	213,556.55 S	266,318.58	229,413.26 \$	237,855.85 \$	295,412.32 \$	255,849.41 S	200,404.04 0	321,830,30 3	200,070.00	230,101.20	001,001.00	9891541775
Revenue from Reserves & Excess Net Income	е		S	400,000.00 \$		- In 1312								- 5	. s	- S	- S	- S		- 9	- S	· ·
Revenue from Registered Warrants	S	- \$	- 5	- 5	1,000,000 S	- \$	- 5	- 5	750.044 6	726,098 \$	735,762 \$	790,766 \$	756,125 \$	766,855 \$	826,721 \$	789,492 \$	801,433 \$	866,315 \$	826,656 \$	839,977 \$	910,050 \$	868,146
	TOTAL INCOME \$	596,904 \$	760,619 \$	1,262,013 \$	2,282,411 \$	728,073 \$	699,010 \$	707,736 \$	758,011 S	720,038 \$	133,102 \$	150,700	1,50,125		1201120							
	NET INCOME &	162 054 E	215,024 \$	95,044 \$	223,471 \$	147,774 \$	199,243 \$	174,996 \$	196,934 \$	90,184 \$	205,602 \$	152,926	193,295 \$	155,099 \$	163,689 \$	141,179 \$	165,447 \$	108,579 \$	149,728 \$	109,704 \$	113,933 \$	91,949
	NET INCOME \$	102,354 \$	213,024 \$	33,044 W	225,477		100,210 4	Chara C	September 16	1036133												
CASH ON HAND																						
Fund Balance as of 7/1/16	S	1,797,951							-													
Revenues (YTD) as of 7/31/16	S	2,913							RI	1608's ASSN	'NT SUNSET >>	>>>>>										
	\$	36,358																e		. \$	- \$	-
Expenses (YTD) as of 7/31/16	TOTAL \$	36,358 1,837,222 \$	- \$	- \$	- S	- \$	- \$	- \$	- \$	- \$	\$	- \$	- \$	- 5	- 5	- \$	- S	- \$	- S	- \$	- \$	
	-	1,837,222 \$	÷ ( \$	- 5	- \$	- \$	- \$	- \$	- \$	- S	- \$	- \$	- S	- \$	- \$	- \$	- \$	- \$	- S	- \$	- \$	
Cash on hand exclusive of reserves	-	The state of the s	- \$	- \$	- \$	- \$	- \$	- \$	- \$	¥ \$	- \$	- S	- \$	- \$	- 5	- \$	- \$	- \$	- S	- \$	- \$	
Cash on hand exclusive of reserves	-	1,837,222 \$	- \$	- 5	- \$	. \$	- \$	- \$	- \$	- S	S	- \$	- \$	- 5		- \$		- \$		- \$		
Cash on hand exclusive of reserves RESERVES	s	1,837,222 \$	- \$ 505,000 \$	- \$ 510,050 \$		206,542 \$			(21,444) S	25,489 S	15,674 S	- \$ 221,276 \$		567,497 S	722,596 \$		1,027,463 S	1,192,910 S	1,301,489 S	1,451,217 S	1.560,920 \$	1,674,853
Cash on hand exclusive of reserves  RESERVES  Capital Improvement Reserve Excess Net Income	\$ \$ \$	1,837,222 \$ 364,506 500,000 \$	505,000 S 377,978 S	510,050 S 473,021 S	583,071 S 223,471 S	206,542 \$			l ander			221,276 \$ 152,926 \$					1,027,463 S	- \$ 1,192,910 \$ 108,579 \$	1,301,489 S	- \$ 1,451,217 S 109,704 S	1.560,920 \$	1,674,853
Cash on hand exclusive of reserves  RESERVES Capital Improvement Reserve Excess Net Income Less Advance Excess Net Income for Sedime	\$ \$ sent Removal Project	1,837,222 \$ 364,506 500,000 \$ 162,954 \$	505,000 S 377,978 S S	510,050 \$ 473,021 \$ (400,000) \$	583,071 S 223,471 S (600,000)	206,542 \$ 147,774 \$	199,243 \$	174,996 \$	(21,444) S 196,934 S	25,489 \$ 90,184 \$	15,674 S				722,596 \$		1,027,463 S	108,579 \$	1,301,489 \$ 149,728 \$	109,704 S - S	1,560,920 \$ 113,933 \$ - \$	1,674,853 91,949
Cash on hand exclusive of reserves  RESERVES Capital Improvement Reserve Excess Net Income	\$ sint Removal Project aval Project \$	1,837,222 \$ 364,506 500,000 \$ 162,954 \$ - \$	505,000 S 377,978 S S	510,050 \$ 473,021 \$ (400,000) \$ - \$	583,071 \$ 223,471 \$ (600.000) - \$	206,542 \$ 147,774 \$ (350,000) \$	199,243 \$		(21,444) S	25,489 S	15,674 \$ 205,602 \$		193,295 S - S	155,099 \$	722,596 \$ 163,689 \$	141,179 S	1,027,463 S 165,447 S - S	108,579 \$ - \$	1,301,489 \$ 149,728 \$ - \$	109,704 S - S	1,560,920 \$ 113,933 \$ - \$	1,674,853 91,949
Cash on hand exclusive of reserves  RESERVES Capital Improvement Reserve Excess Net Income Less Advance Excess Net Income for Sedime	\$ \$ sent Removal Project	1,837,222 \$ 364,506 500,000 \$ 162,954 \$ - \$	505,000 S 377,978 S S - S 882,978 \$	510,050 \$ 473,021 \$ (400,000) \$ - \$ 583,071 \$	583,071 S 223,471 S (600,000) - S 206,542 S	206.542 \$ 147.774 \$ (350,000) \$ 4,316 \$	199,243 \$ (200,000) \$ 3,559 \$	174,996 \$ (200,000) \$ (21,444) \$	(21,444) S 196,934 S (150,000) S 25,489 S	25,489 \$ 90,184 \$ (100,000) \$ 15,674 \$	15,674 \$ 205,602 \$ - \$ 221,276 \$	152,926 S - S 374,202 S	193,295 S - S 567,497 S	155,099 \$ - \$ 722,596 \$	722,596 \$ 163,689 \$ - \$ 886,284 \$	141,179 \$ \$ 1,027,463 \$	1,027,463 S 165,447 S - S 1,192,910 S	108,579 \$ - \$ 1,301,489 \$	1,301,489 \$ 149,728 \$ - \$	109,704 S - S 1,560,920 S	1,560,920 \$ 113,933 \$ - \$ 1,674,853 \$	1,674,853 91,949 1,766,803
Cash on hand exclusive of reserves  RESERVES Capital Improvement Reserve Excess Net Income Less Advance Excess Net Income for Sedime	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,837,222 \$ 364,506  500,000 \$ 162,954 \$ - \$ 662,954 \$ 900,000 \$	505,000 S 377,978 S S - S 882,978 \$ 909,000 S	510,050 \$ 473,021 \$ (400,000) \$ - \$ 583,071 \$ 918,090 \$	583,071 S 223,471 S (600,000) - S 206,542 S 927,271 S	206,542 \$ 147,774 \$ (350,000) \$ 4,316 \$ 936,544 \$	199,243 \$ (200,000) \$ 3,559 \$ 945,909 \$	174,996 \$ (200,000) \$ (21,444) \$ 955,368 \$	(21,444) S 196,934 S (150,000) S 25,489 S 964,922 S	25,489 \$ 90,184 \$ (100,000) \$ 15,674 \$ 974,571 \$	15,674 \$ 205,602 \$ - \$ 221,276 \$ 984,317 \$	152,926 \$ - \$ 374,202 \$ 994,160 \$	193,295 S - S 567,497 S 1,004,102 S	155,099 \$ - \$	722,596 \$ 163,689 \$ - \$ 886,284 \$ 1,024,284 \$	141,179 \$ - \$ 1,027,463 \$ 1,034,527 \$	1,027,463 S 165,447 S - S	108,579 \$ - \$ 1,301,489 \$	1,301,489 \$ 149,728 \$ - \$ 1,451,217 \$ 1,065,874 \$	109,704 S - S 1,560,920 S 1,076,533 S	1,560,920 \$ 113,933 \$ - \$ 1,674,853 \$ 1,087,298 \$	1,674,853 91,949 1,766,803 1,098,171
Cash on hand exclusive of reserves  RESERVES Capital Improvement Reserve Excess Net Income Less Advance Excess Net Income for Sedime Less Warrant Repayment for Sediment Remo	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,837,222 \$ 364,506  500,000 \$ 162,954 \$ - \$ 662,954 \$ 900,000 \$	505,000 S 377,978 S S - S 882,978 \$	510,050 \$ 473,021 \$ (400,000) \$ - \$ 583,071 \$ 918,090 \$	583,071 S 223,471 S (600,000) - S 206,542 S 927,271 S	206,542 \$ 147,774 \$ (350,000) \$ 4,316 \$ 936,544 \$	199,243 \$ (200,000) \$ 3,559 \$	174,996 \$ (200,000) \$ (21,444) \$	(21,444) S 196,934 S (150,000) S 25,489 S	25,489 \$ 90,184 \$ (100,000) \$ 15,674 \$	15,674 \$ 205,602 \$ - \$ 221,276 \$	152,926 S - S 374,202 S	193,295 S - S 567,497 S 1,004,102 S	155,099 \$ - \$ 722,596 \$ 1,014,143 \$	722,596 \$ 163,689 \$ - \$ 886,284 \$ 1,024,284 \$	141,179 \$ - \$ 1,027,463 \$ 1,034,527 \$	1,027,463 S 165,447 S - S 1,192,910 S 1,044,872 S	108,579 \$ - \$ 1,301,489 \$ 1,055,321 \$	1,301,489 \$ 149,728 \$ - \$ 1,451,217 \$ 1,065,874 \$	109,704 S - S 1,560,920 S 1,076,533 S	1,560,920 \$ 113,933 \$ - \$ 1,674,853 \$ 1,087,298 \$	1,674,853 91,949 1,766,803 1,098,171
Cash on hand exclusive of reserves  RESERVES Capital Improvement Reserve Excess Net Income Less Advance Excess Net Income for Sedime Less Warrant Repayment for Sediment Remo	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,837,222 \$ 364,506  500,000 \$ 162,954 \$ - \$ 662,954 \$ 900,000 \$	505,000 S 377,978 S S - S 882,978 \$ 909,000 S	510,050 \$ 473,021 \$ (400,000) \$ - \$ 583,071 \$ 918,090 \$	583,071 S 223,471 S (600,000) - S 206,542 S 927,271 S	206,542 \$ 147,774 \$ (350,000) \$ 4,316 \$ 936,544 \$	199,243 \$ (200,000) \$ 3,559 \$ 945,909 \$	174,996 \$ (200,000) \$ (21,444) \$ 955,368 \$	(21,444) S 196,934 S (150,000) S 25,489 S 964,922 S 990,411 \$	25,489 \$ 90,184 \$ (100,000) \$ 15,674 \$ 974,571 \$ 990,245 \$	15,674 \$ 205,602 \$ \$ \$ 221,276 \$ \$ 984,317 \$ 1,205,692 \$	152,926 \$ - \$ 374,202 \$ 994,160 \$	193,295 S 	155,099 \$ - \$ 722,596 \$ 1,014,143 \$	722,596 \$ 163,689 \$ - \$ 886,284 \$ 1,024,284 \$	141,179 \$ - \$ 1,027,463 \$ 1,034,527 \$	1,027,463 S 165,447 S - S 1,192,910 S 1,044,872 S	108,579 \$ - \$ 1,301,489 \$ 1,055,321 \$	1,301,489 \$ 149,728 \$ - \$ 1,451,217 \$ 1,065,874 \$ 2,517,091 \$	109,704 \$ - \$ 1,560,920 \$ 1,076,533 \$ 2,637,453 \$	1,560,920 \$ 113,933 \$ - \$ 1,674,853 \$ 1,087,298 \$ 2,762,152 \$	1,674,853 91,949 1,766,803 1,098,171
Cash on hand exclusive of reserves  RESERVES  Capital Improvement Reserve Excess Net Income Less Advance Excess Net Income for Sedime Less Warrant Repayment for Sediment Remo	\$ sini Removal Project sval Project SUBTOTAL \$ sincy Reserve) \$ TOTAL \$	1,837,222 \$ 364,506  500,000 \$ 162,954 \$ - \$ 662,954 \$ 900,000 \$	505,000 S 377,978 S S - S 882,978 \$ 909,000 S	510,050 \$ 473,021 \$ (400,000) \$ - \$ 583,071 \$ 918,090 \$	583,071 \$ 223,471 \$ (600,000) - \$ 206,542 \$ 927,271 \$ 1,133,813 \$	206,542 \$ 147,774 \$ (350,000) \$ 4,316 \$ 936,544 \$	199,243 \$ (200,000) \$ 3,559 \$ 945,909 \$ 949,468 \$ 200,000 \$	174,996 \$ (200,000) \$ (21,444) \$ 955,368 \$ 933,924 \$  200,000 \$	(21,444) S 196,934 S (150,000) S 25,489 S 964,922 S 990,411 \$	25,489 \$ 90,184 \$ (100,000) \$ 15,674 \$ 990,245 \$ 100,000 \$	15,674 \$ 205,602 \$ - \$ 221,276 \$ 984,317 \$	152,926 \$ - \$ 374,202 \$ 994,160 \$	193,295 S - S 567,497 S 1,004,102 S	155,099 \$ - \$ 722,596 \$ 1,014,143 \$	722,596 \$ 163,689 \$ - \$ 886,284 \$ 1,024,284 \$	141,179 \$ - \$ 1,027,463 \$ 1,034,527 \$	1,027,463 S 165,447 S - S 1,192,910 S 1,044,872 S	108,579 \$ - \$ 1,301,489 \$ 1,055,321 \$	1,301,489 \$ 149,728 \$ - \$ 1,451,217 \$ 1,065,874 \$	109,704 S - S 1,560,920 S 1,076,533 S	1,560,920 \$ 113,933 \$ - \$ 1,674,853 \$ 1,087,298 \$ 2,762,152 \$	1,674,853 91,949 1,766,803 1,098,171
Cash on hand exclusive of reserves  RESERVES Capital Improvement Reserve Excess Net Income Less Advance Excess Net Income for Sedime Less Warrant Repayment for Sediment Remo Board-designated Reserve (Note 8 - Emerger	\$ sini Removal Project sval Project SUBTOTAL \$ sincy Reserve) \$ TOTAL \$	1,837,222 \$ 364,506  500,000 \$ 162,954 \$ - \$ 662,954 \$ 900,000 \$	505,000 S 377,978 S S S S S 882,978 S 909,000 S 1,791,978 \$	510,050 S 473,021 S (400,000) S 	583,071 \$ 223,471 \$ (600,000) - \$ 206,542 \$ 927,271 \$ 1,133,813 \$	206,542 \$ 147,774 \$ (350,000) \$ 4,316 \$ 936,544 \$ 940,860 \$	199,243 \$ (200,000) \$ 3,559 \$ 945,909 \$ 949,468 \$	174,996 \$ (200,000) \$ (21,444) \$ 955,368 \$ 933,924 \$	(21,444) S 196,934 S (150,000) S 25,489 S 964,922 S 990,411 \$	25,489 \$ 90,184 \$ (100,000) \$ 15,674 \$ 974,571 \$ 990,245 \$	15,674 \$ 205,602 \$ \$ \$ 221,276 \$ \$ 984,317 \$ 1,205,692 \$	152,926 \$ - \$ 374,202 \$ 994,160 \$	193,295 S 	155,099 \$ - \$ 722,596 \$ 1,014,143 \$	722,596 \$ 163,689 \$ - \$ 886,284 \$ 1,024,284 \$	141,179 \$ - \$ 1,027,463 \$ 1,034,527 \$	1,027,463 S 165,447 S - S 1,192,910 S 1,044,872 S	108,579 \$ - \$ 1,301,489 \$ 1,055,321 \$	1,301,489 \$ 149,728 \$ - \$ 1,451,217 \$ 1,065,874 \$ 2,517,091 \$	109,704 \$ - \$ 1,560,920 \$ 1,076,533 \$ 2,637,453 \$	1,560,920 \$ 113,933 \$ - \$ 1,674,853 \$ 1,087,298 \$ 2,762,152 \$	1,674,853 91,949 1,766,803 1,098,171
Cash on hand exclusive of reserves  RESERVES Capital Improvement Reserve Excess Net Income Less Advance Excess Net Income for Sedime Less Warrant Repayment for Sediment Remo Board-designated Reserve (Note 8 - Emerger  WARRANT REPAYMENT Warrant Payments for Sediment Removal Pro	\$ sint Removal Project substituted Project Substotal S substotal S substotal S substotal S substotal S	1,837,222 \$ 364,506  500,000 \$ 162,954 \$ - \$ 662,954 \$ 900,000 \$	505,000 S 377,978 S S S S S 882,978 S 909,000 S 1,791,978 \$	510,050 S 473,021 S (400,000) S 	583,071 \$ 223,471 \$ (600,000) - \$ 206,542 \$ 927,271 \$ 1,133,813 \$	206,542 \$ 147,774 \$ (350,000) \$ 4,316 \$ 936,544 \$ 940,860 \$	199,243 \$ (200,000) \$ 3,559 \$ 945,909 \$ 949,468 \$ 200,000 \$	174,996 \$ (200,000) \$ (21,444) \$ 955,368 \$ 933,924 \$  200,000 \$	(21,444) S 196,934 S (150,000) S 25,489 S 964,922 S 990,411 \$	25,489 \$ 90,184 \$ (100,000) \$ 15,674 \$ 990,245 \$ 100,000 \$	15,674 \$ 205,602 \$ \$ \$ 221,276 \$ \$ 984,317 \$ 1,205,692 \$	152,926 \$ - \$ 374,202 \$ 994,160 \$	193,295 S 	155,099 \$ - \$ 722,596 \$ 1,014,143 \$	722,596 \$ 163,689 \$ - \$ 886,284 \$ 1,024,284 \$	141,179 \$ - \$ 1,027,463 \$ 1,034,527 \$	1,027,463 S 165,447 S - S 1,192,910 S 1,044,872 S	108,579 \$ - \$ 1,301,489 \$ 1,055,321 \$	1,301,489 \$ 149,728 \$ - \$ 1,451,217 \$ 1,065,874 \$ 2,517,091 \$	109,704 \$ - \$ 1,560,920 \$ 1,076,533 \$ 2,637,453 \$	1,560,920 \$ 113,933 \$ - \$ 1,674,853 \$ 1,087,298 \$ 2,762,152 \$	1,674,853 91,949 1,766,803 1,098,171
Cash on hand exclusive of reserves  RESERVES Capital Improvement Reserve Excess Net Income Less Advance Excess Net Income for Sedime Less Warrant Repayment for Sediment Remo Board-designated Reserve (Note 8 - Emerger	\$ sint Removal Project substituted Project Substotal S substotal S substotal S substotal S substotal S	1,837,222 \$ 364,506  500,000 \$ 162,954 \$ - \$ 662,954 \$ 900,000 \$	505,000 S 377,978 S S S S S 882,978 S 909,000 S 1,791,978 \$	510,050 S 473,021 S (400,000) S - S 583,071 S 918,090 S 1,501,161 \$ - S - S	583,071 \$ 223,471 \$ (600,000) - \$ 206,542 \$ 927,271 \$ 1,133,813 \$	206,542 \$ 147,774 \$ (350,000) \$ 4,316 \$ 936,544 \$ 940,860 \$ 350,000 \$ 350,000 \$	199,243 \$ (200,000) \$ 3,559 \$ 945,909 \$ 949,468 \$ 200,000 \$	174,996 \$ (200,000) \$ (21,444) \$ 955,368 \$ 933,924 \$  200,000 \$ 200,000 \$	(21,444) S 196,934 S (150,000) S 25,489 S 964,922 S 990,411 \$	25,489 \$ 90,184 \$ (100,000) \$ 15,674 \$ 990,245 \$ 100,000 \$	15,674 \$ 205,602 \$ \$ \$ 221,276 \$ \$ 984,317 \$ 1,205,692 \$	152,926 \$ - \$ 374,202 \$ 994,160 \$	193,295 S 	155,099 \$ - \$ 722,596 \$ 1,014,143 \$	722,596 \$ 163,689 \$ - \$ 886,284 \$ 1,024,284 \$	141,179 \$ - \$ 1,027,463 \$ 1,034,527 \$	1,027,463 S 165,447 S - S 1,192,910 S 1,044,872 S	108,579 \$ - \$ 1,301,489 \$ 1,055,321 \$	1,301,489 \$ 149,728 \$ - \$ 1,451,217 \$ 1,065,874 \$ 2,517,091 \$	109,704 \$ - \$ 1,560,920 \$ 1,076,533 \$ 2,637,453 \$	1,560,920 \$ 113,933 \$ - \$ 1,674,853 \$ 1,087,298 \$ 2,762,152 \$	1,674,853 91,949 1,766,803 1,098,171

#### NOTES:

NOTES:

Levee General Operation and Maintenance expenses are an annual expense that is required in order to assure adequate

protection against routine flood waters from the constant flood threat of the adjoining waterways.

The Capital Improvement projects include several projects projected over the upcoming years. The first \$100,000 project is to cover the placement of rock slope protection east of I-5 on 14 Mile Slough levee. The second \$250,000 project is to cover the likely required raising of the levee in the southwest quadrant. The reminder of the \$50,000 + projects are a budget to take into account likely improvement projects that will be required every 3 years or so.

FY 2015-2016 FY 2016-2017 FY 2017-2018 FY 2018-2019 FY 2018-2019 FY 2019-2020 FY 2020-2021 FY 2021-2022 FY 2022-2023 FY 2023-2024 FY 2024-2025 FY 2025-2026 FY 2025-2028 FY 2028-2029 FY 2029-2030 FY 2030-2031 FY 2031-2032 FY 2032-2033 FY 2033-2034 FY 2034-2035 FY 2035-2036

The \$31,500 election cost budget is a placeholder every two years into the future whereby we may have the need to conduct a mail ballot election.

The Districts current assessment authority under its current role expires in Fiscal Year 2025-26. This budget projects the preparation of a new Proposition 218 Engineers Report 2 years in advance of this assessment expiration. The reason for starting two years shead of the expiration of RD 1608's assessment authority is because if the 1st attempt falls with the RD 1608 constituency then you have 1 more year to adjust your program and seek another affirmative election. \$96,000 for assessment engineering in Fiscal Year 2023-24 is to cover the preparation of a new assessment roll to carry the District revenue into the future. The preliminary budget includes \$65,000 for assessment engineering and mailing and \$25,000 for public outreach.

The Sediment Removal Project is estimated @ \$2.6 million to complete the project all the way to the District Boundary east of I-5 on Fourteenmile Slough.

Assessment revenue was projected to remain the same with no increase or decrease beyond the expiration of the current assessment of 2025-26. Board of Trustees need to consider this assumption.

The Delta Levee Subventions Program, AB 360, sunsets in Fiscal Year 2017/18. Currently there is no guerantee that this program will be continued. It is very likely that some form of the Program will continue. For budgetary purposes we have shown the program continuing on ihrough the end of this budget limit at the same cost sharing ratios that are currently in place.

We recommend that RD 1608 maintain 2 X its annual income (Assessment & Property Tax Increment) in reserves to provide for 1st strike emergency response funds in the event of a significant flood emergency.

#### Annual % Increases

Annual % Increase	
Levoe Superintendent	39
Part Time Employees	39
Payroll Taxes and Expenses	49
Fences & Gates	09
Locks & Signs	49
Weed and Rodent Control & Clean Up	59
Levee Repair Fund (General Operations & Maintenance)	59
Levee Repair Fund (Levee Improvement Projects)	59
Pump System Maintenance	39
Wireless Services (Cell and Mobile Computer)	39
Emergency Equipment & Supplies	09
Garbege Service	39
District Vehicle (Fuel, Maintenance & Repairs)	39
Trustee Fees	09
Secretary Fees	39
Office Expenses (includes storage facility)	39
General Legal	39
Audit	29
County Administration Costs	49
Liability Insurance	49
Workers Comp Insurance	29
Automobile Insurance	29
Election Costs	09
Newsletter & Public Communications	09
General Engineering	19
Assessment Engineering	29
Sediment Removal Project	TE
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Prenared by Christopher H. Neudeck 11/1/2018
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# B

	F14 00 4 F 00 4 D	EV 0040 0047	EV 2047 2040	FY 2018-2019 F	V 2040 2020 E	V 2020 2024 E	V 2024 2022 E	V 2022 2022 E	Y 2023-2024 F	V 2024-2025 F	Y 2025-2026	FY 2026-2027 F	Y 2027-2028 F	Y 2028-2029 F	Y 2029-2030 F	Y 2030-2031 F	Y 2031-2032	FY 2032-2033	Y 2033-2034 F	Y 2034-2035 FY	Y 2035-2036
OPERATION AND MAINTENANCE EXPENSE	FY 2015-2016	FY 2016-2017	FY 2017-2018	FY 2018-2019 P	1 2019-2020 F	1 2020-2021 F	1 2021-2022	1 2022-2025	1 2023-2024	1 2024-2025	7 2023-2020	T T ZUZU-ZUZ	1 EUET-EUEU	I LULU LULU	. 2020 2000	1 2000 2001	1 - 1 - 1 - 1 - 1		-6.1.5Ce A		-
Levee Superintendent	\$ 58,000	S 59,740	S 61,532 S	63,378 \$	65,280 S	67,238 S	69,255 \$	71,333 \$	73,473 S	75,677 \$	77,947	80,286 \$	82,694 \$	85,175 \$	87,730 S	90,362 \$	93,073 \$		98,741 \$	101,703 \$	104,754
Part Time Employees	\$ 26,000		\$ 27,583 \$	28,411 \$	29,263 \$	30,141 \$	31,045 \$	31,977 \$	32,936 \$	33,924 \$	34,942	35,990 \$	37,070 S	38,182 \$	39,327 \$	40,507 \$	41,722 \$		44,263 S	45,591 S 13,273 S	46,959 13,804
Payroll Taxes and Expenses	\$ 6,300			7,087 \$	7,370 S	7,665 S	7,972 \$	8,290 S	8,622 S	8,967 \$	9,326	9,699 \$	10,087 \$ 5,000 \$	10,490 \$ 5,000 \$	10,910 \$ 5,000 \$	11,346 \$ 5,000 \$	11,800 S 5,000 S	12,272 \$ 5,000 \$	12,763 \$ 5,000 \$	5,000 \$	5,000
Fences & Gates	\$ 5,000			5,000 \$ 2,250 \$	5,000 S 2,340 S	5,000 \$ 2,433 \$	5,000 S 2,531 S	5,000 S 2,632 S	5,000 \$ 2,737 \$	5,000 \$ 2,847 \$	5,000 S 2,960 S	5,000 S 3,079 S	3,202 \$	3,330 \$	3,463 \$	3,602 \$	3.746 \$	3.896 \$	4,052 \$	4,214 \$	4,382
Locks & Signs	\$ 2,000 \$ 15,000			17,364 S	18,233 \$	19.144 S	20,101 \$	21,107 S	22,162 \$	23,270 \$	24,433		26,938 \$	28,285 \$	29,699 \$	31,184 \$	32,743 \$	34,380 \$	36,099 \$	37,904 \$	39,799
Weed and Rodent Control & Clean Up Levee Repair Fund (General Operations & Maintenance) (Note 1)			C 10.8552 14	86,822 \$	91.163 S	95,721 \$	100,507 S	105,533 S	110,809 S	116,350 \$	122,167		134,689 \$	141,424 S	148,495 \$	155,920 S	163,716 \$		180,496 S	189,521 \$	198,997
Levee Repair Fund (Levee Capital Improvement Projects) (Note 2					50,000 S	- \$	- \$	55,000 S	- S	- 5	60,000	- 5	- 5	65,000 S	- S	- 5	70,000 S		- S	75,000 \$	-
Pump System Maintenance	\$ 500	\$ 515	S 530 S	546 S	563 5	580 \$	597 \$	615 S	633 \$	652 \$	672 5	692 S	713 S	734 \$	756 S	779 S	802 S	826 S	851 \$	877 S	903 3,070
Wireless Services (Cell and Mobile Computer)	\$ 1,700			1,858 S	1,913 S	1,971 \$	2,030 S	2,091 S	2,154 \$	2,218 \$	2,285	2,353 \$	2,424 5	2,497 \$	2,571 \$	2,649 \$ 1,000 \$	2,728 S 1,000 \$	2,810 \$ 1,000 \$	2,894 S 1,000 S	2,981 S 1,000 S	1,000
Emergency Equipment & Supplies	\$ 1,000			1,000 S	1,000 S	1,000 \$ 2,782 \$	1,000 S 2,866 S	1,000 \$ 2,952 \$	1,000 \$ 3,040 \$	1,000 \$ 3,131 \$	1,000 S 3,225 S		1,000 S 3,422 S	1,000 \$ 3,524 \$	1,000 \$ 3,630 \$	3,739 S	3.851 \$		4,086 S	4,208 \$	4,335
Garbage Service	\$ 2,400 \$ 5,600		\$ 2,546 S \$ 6,057 S	2,623 S 6,299 S	2,701 S 6,551 S	6.813 S	7.086 \$	7.086 S	7,369 \$	7.369 \$	7,664	7,664 S	7,971 5	7,971 S	8,289 \$	8,289 \$	8,621 \$	8,621 S	8,966 S	8,966 \$	9,324
District Vehicle (Fuel, Maintenance & Repairs) SUBTOTAL					281,377 S	240,488 \$	249,990 \$	314,614 \$	269,935 \$	280,405 \$	351,622 5	303,015 S	315,209 S	392,611 S	340,872 S	354,377 S	438,802 \$	383,512 S	399,211 \$	490,239 \$	432,329
GENERAL EXPENSE	2 150,500	3 331,219	φ	222,007 0	201,011	210,100 0	210,000 0	9.114.1			250,000	355433	200,000	100000000000000000000000000000000000000							0.480
Trustee Fees	\$ 6,000	\$ 6,000	S 6,000 S	6,000 S	6,000 S	6,000 S	6,000 S	6,000 S	6,000 S	6,000 S	6,000	\$ 6,000 S	6,000 \$	6,000 S	6,000 S	6,000 S	6.000 S	6,000 S	6,000 S	6,000 \$	6,000
Secretary Fees	\$ 9,000				10,130 S	10,433 \$	10,746 \$	11,069 S	11,401 \$	11,743 \$	12,095	12,458 S	12,832 \$	13,217 S	13,613 \$	14,022 S	14,442 S 1,204 S		15,322 S 1,277 S	15,782 S 1,315 S	16,255 1,355
Office Expenses (includes storage facility)	\$ 750				844 S	869 \$	896 \$	922 \$	950 S	979 S	1,008 5 73,915 5	1,038 S 76,133 S	1,069 \$ 78,417 \$	1,101 S 80,769 S	1,134 S 83,192 S	1,168 S 85,688 S	88,259 S	90,907 \$	93,634 S	96.443 \$	99,336
General Legal	S 55,000				61,903 S	63,760 \$ 3,533 \$	65,673 \$ 3,604 \$	67,643 \$ 3,676 \$	69,672 S 3,749 S	71,763 S 3,824 S	3,901	3,979 \$	4.058 \$	4,140 S	4,222 \$	4,307 \$	4,393 S	4,481 S	4.570 S	4,662 \$	4,755
Audit	\$ 3,200 \$ 7,250			3,396 \$ 8,155 \$	3,464 S 8,481 S	8.821 \$	9,174 \$	9,541 S	9,922 5	10,319 \$	10,732	11,161 \$	11,607 S	12.072 S	12,555 \$	13,057 S	13,579 S		14,687 S	15,275 S	15,886
County Administration Costs Liability Insurance	\$ 9,000			10,124 \$	10,529 \$	10,950 \$	11,388 \$	11,843 S	12,317 S	12,810 S	13,322 5	13,855 S	14,409 S	14,986 \$	15,585 S	16,208 S	16,857 \$		18,232 S	18,962 \$	19,720
Workers Comp Insurance	\$ 8,750			9,286 \$	9,471 \$	9,661 \$	9,854 \$	10,051 \$	10,252 \$	10,457 \$	10,666	10,880 S	11.097 S	11,319 \$	11,545 \$	11,776 S	12,012 \$		12,497 \$	12,747 S	13,002
Automobile Insurance	\$ 2,000			2,122 \$	2,165 \$	2,208 \$	2,252 \$	2,297 \$	2,343 \$	2,390 \$	2,438	2,487 \$	2,536 \$	2,587 \$	2,639 \$	2,692 \$	2,746 S		2,856 \$	2,914 S	2,972 31,500
Election Costs (Note 3)	S -	S -	\$ 31,500 \$	- \$	31,500	S	31,500 \$	- 5	31,500 \$	- \$	31,500	9,000 \$	31,500 \$ 9,000 \$	9,000 \$	31,500 S 9,000 S	9.000 \$	31,500 S 9,000 S	9,000 \$	31,500 \$ 9,000 \$	9.000 S	9,000
Newsletter & Public Communications	\$ 9,000		a month of the latest of the	9,000 \$	9,000 \$	9,000 \$	9,000 \$	9,000 \$	9,000 \$	9,000 \$	9,000 \$		0.1770		190,987 \$	163,919 \$	199,991 \$	173,209 S	209.576 \$	183,098 S	219,780
SUBTOTAL	\$ 109,950	\$ 112,822	S 147,283 S	118,837 \$	153,487 \$	125,236 \$	160,086 \$	132,042 \$	167,107 S	139,284 S	174,578	146,990 \$	182,527 \$	155,191 \$	130,367 4	103,515 4	133,331 @	170,200 0	200,070	100,000	210,100
ENGINEERING EXPENSE	e 05,000	S 95.950	S 96.910 S	97,879 \$	98,857 \$	99,846 \$	100,844 \$	101,853 \$	102,871 \$	103,900 S	104,939	105,988 S	107,048 S	108,119 S	109,200 S	110.292 \$	111,395 \$	112,509 \$	113,634 S	114,770 S	115,918
General Engineering (Note 4)	\$ 95,000 \$ 5,500		\$ 5,722 \$	5.837 \$	5,953 \$	6,072 \$	6,194 \$	6,318 \$	96,000 S	6,570 S	6,702 5	6,836 S	6,973 \$	7,112 \$	7,254 S	7,399 \$	7,547 S	7,698 S	7,852 \$	8,009 S	8,170
Assessment Engineering (Note 4) Sediment Removal Project (Note 5)	\$ 25,000				0,000	5,0,00							124.00								181 888
SUBTOTAL	\$ 125,500	\$ 101,560	\$ 555,432 \$	2,250,915 \$	104,811 \$	105,918 \$	107,038 \$	108,171 S	198,871 \$	110,471 S	111,641	112,824 S	114,021 \$	115,231 \$	116,454 \$	117,691 \$	118,942 \$	120,207 S	121,486 S	122,780 \$	124,088
WARRANT INTEREST EXPENSE		V		V-22-22-2		75.000 0	20.750.0	FO 07F B	C7 042 C	4C 242 E	20,002	20 502 8	15,625 \$	3,125 S		- 5	- 8		- 5	- 5	
Warrant Interest Expense	S -	\$ -	s - S	100,000 \$	87,500 S	75,000 \$	68,750 \$	59,375 \$	57,813 \$	45,313 \$	39,063 \$	26,563 \$	15,625 \$	3,125 \$	- 8	- 3	- 5	- 5	- S	- S	
SUBTOTAL	\$ -	\$ -	\$ - S	118,750 \$	87,500 \$	75,000 \$	68,750 S	59,375 \$	57,813 S	45,313 \$	39,063	26,563 \$	10,020 3	3,123 0	- 9	- 0	- 0				
SHARED DISTRICT EXPENSE																					
Rec Dist. 2119 - Wright Elmwood	S -	S -	s - S	- S	- S	- S	- S	- 3	- 5	- S	- 8	- S	- 5	- \$	- S	- S	- S	- S	- S	- S	-
SUBTOTAL	\$ -	\$ - :	S - S	- 5	- S	- 5	- S	- S	- S	- S	- 8	- S	- S	- \$	- 5	- S	- \$	- \$	- S	- \$	340
							70.00				- x-2.7	1 - Jan 19 - 1 - 1	70144 11 0		CONTRACT	2000000	The Name of			5 C C C C C	447.4
TOTAL EXPENSES	\$ 433,950	\$ 545,596	\$ 1,166,970 \$	2,711,140 \$	627,174 \$	546,642 \$	585,864 \$	614,202 \$	693,726 \$	575,473 \$	676,903	589,392 \$	627,381 \$	666,158 \$	648,313 \$	635,987 \$	757,736 \$	676,928 \$	730,274 \$	796,117 \$	776,197
INCOME																					
Property Taxes	s 200,000	\$ 202,000	s 204,020 S	206,060 \$	208,121 \$	210,202 \$	212,304 S	214,427 S	216,571 S	218,737 \$	220,924 \$	223,134 \$	225,365 \$	227,619 \$	229,895 S	232,194 S	234,516 \$	236,861 \$	239,229 \$	241,622 S	244,038
Interest Income	S 5,000	\$ 5,050		5,152 S	5,203 \$	5,255 \$	5,308 \$	5,361 S	5,414 \$	5,468 \$	5,523	5,578 \$	5,634 \$	5,690 \$	5,747 S	5,805 S	5,863 \$	5,922 S	5,981 S	6,041 \$	6,101
Assessments (Note 6)	\$ 298,000					298,000 \$		298,000 \$	298,000 S	298,000 S	298,000	327,800 S	335,995 \$	344,395 S	353,005 S	361,830 \$	370,876 \$	380,148 S	389,651 S	399,392 \$	409,377
Subvention Reimbursement (Note 7)	\$ 93,904		\$ 354,892.66 \$		216,748.96 \$			240,222.87 \$		213,556.55 \$	266,318.58	5 229,413.26 5	237,855.85 S	295,412.32 \$	255,849.41 S	265,434.64 \$	327,936.38 \$	285,873.86 S	296,767.23 \$	364,387.60 \$	320,007.10
Revenue from Reserves & Excess Nel Income	Ψ 55,504	200,000.20	\$ 400,000.00 \$		2101/10109	1996-912- 4	3000000	des females in	200	5.474.53.07.47											
	\$	9			- S	- S	- S	- 5	- 5	- 5		s - s	- \$	- \$	- S	- S	+ 5	5 - 5	- S	- S	
Revenue from Registered Warrants  TOTAL INCOME	\$ 596,904	-	•		728,073 \$	699,010 \$	707,736 \$	758,011 S	726,098 \$	735,762 \$	790,766	785,925 \$	804,850 \$	873,116 \$	844,496 \$	865,263 \$	939,191 \$	908,804 \$	931,629 \$	1,011,442 \$	979,523
TOTALINGOME	. 5 550,504	100,010	4 1,202,010 0	210021-111	120,010		7-11/2- 4-			Later Line											
NET INCOME	\$ 162,954	\$ 215,024	\$ 95,044 \$	171,271 \$	100,899 \$	152,368 \$	121,871 \$	143,809 \$	32,372 \$	160,289 \$	113,864	196,533 \$	177,469 \$	206,958 \$	196,184 \$	229,276 \$	181,455 \$	231,875 \$	201,355 \$	215,326 \$	203,326
NET INCOME	Ф 102,354	\$ 215,024	g 55,044 q	171,211 4	100,000	102,000 4	121,011	140,000	02,0.2 4	.00,200	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1977	,								
Sian annual																					
CASH ON HAND																					
Fund Balance as of 7/1/16	\$ 1,797,951							F-0		NIT OLIVORT											
Revenues (YTD) as of 7/31/16	\$ 2,913							R	D 1608'S ASSM	'NT SUNSET >:	>>>>>>										
Expenses (YTD) as of 7/31/16	5 36,358																-		*		
TOTAL	\$ 1,837,222	\$ -	s - s	- \$	- S	- \$	- S	- 5	- \$	- \$	- 18	- \$	- 5	- \$	- 5	- 5	- S	- 5	- 5	- \$	
Cash on hand exclusive of reserves	\$ 364,506																				
RESERVES													55.000	3.8° w. 4	12000	SAFARIAN -	222 225 4	100000000000000000000000000000000000000	-	4 000 515	2 020 025
Capital Improvement Reserve	\$ 500,000	\$ 505,000	\$ 510,050 S	583,071 \$	154,342 \$	55,241 S	7,609 S				(9,049) \$		1,347 \$		10,774 S					1,000,919 \$	
Excess Net Income	\$ 162,954				100,899 \$	152,368 \$	121,871 \$	143,809 S	32,372 \$	160,289 \$	113,864	196,533 \$	177,469 S	206,958 \$	196,184 \$	229,276 \$	181,455 S	231,875 \$	201,355 \$	215,326 \$	203,326
Less Advance Excess Net Income for Sediment Removal Project			\$ (400,000) \$		(000 000) F	(000 000) P	(400 000) C	/450 000\ C	(25 000) C	(200,000) @	(100,000) \$	(200,000) S	(175,000) \$	(200,000) \$	(50,000) S	- S	- S	- S	- S	- 8	100
Less Warrant Repayment for Sediment Removal Project	\$ -		-			(200,000) \$		(150,000) \$	(25,000) \$	(200,000) \$	4,814	1,347 \$	3,816 \$		156,958 \$	386,234 S	567,689 \$			1,216,245 \$	1,419,571
SUBTOTAL	. S 662,954	\$ 882,978	\$ 583,071 S	154,342 \$	55,241 \$	7,609 \$	29,481 S	23,289 \$	30,661 S	(9,049) \$	4,014	1,347 3	3,010 3	10,774 3	100,000 3	300,204 9	337,000 0	, 55,001	the close of	THE COLUMN	
Board-designated Reserve (Note 8 - Emergency Reserve)	\$ 900,000	s 909,000	\$ 918,090 S	927,271 \$	936,544 \$	945,909 \$	955,368 \$	964,922 \$	974,571 \$	984,317 \$	994,160 \$	1,004,102 S	1.014,143 S	1,024,284 \$	1,034,527 \$	1,044,872 S	1,055,321 \$			1,087,298 \$	1,098,171
		\$ 1,791,978				953,518 \$				975,267 \$	998,974 \$	1,005,449 \$	1,017,958 \$	1,035,058 \$	1,191,485 \$	1,431,106 \$	1,623,010 \$	1,865,438 \$	2,077,452 \$	2,303,543 \$	2,517,742
TOTAL	1,002,004	*	1,001,101	decitore 4	33,1,00				The same of the sa	The state of the s		Service Service	40.00	A STATE OF THE STA	2000						
WARRANT REPAYMENT																					
Warrant Payments for Sediment Removal Project	S -	s - 1	s - s	- S	200,000 \$	200,000 \$	100,000 S	150,000 S	25,000 S	200,000 \$	100,000 \$	200,000 \$	175,000 \$	200,000 \$	50,000 S	- 5	- \$	- 5	- \$	- \$	
SUBTOTAL		\$ -	s - s	- S	200,000 \$	200,000 \$	100,000 S	150,000 \$	25,000 S	200,000 \$	100,000   5	200,000 S	175,000 \$	200,000 \$	50,000 \$	- S	- \$	- 5	- \$	- \$	-
SUBTUTAL	7			-	Titte 2	and the same of th	V. 100 P.			100											
OVERALL WARRANT REPAYMENT BALANCE																					
Warrant Balance	1		S	1,600,000 \$	1,400,000 \$	1,200,000 \$	1,100,000 \$	950,000 \$	925,000 \$	725,000 S	625,000 \$	425,000 S	250,000 S	50,000 S	-						

NOTES:

Levee General Operation and Maintenance expenses are an annual expense that is required in order to assure adequate

protection against routine flood waters from the constant flood threat of the adjoining waterways.

The Capital Improvement projects include several projects projected over the upcoming years. The first \$100,000 project is to cover the placement of rock slope protection east of 1-5 on 14 Mile Slough levee. The second \$250,000 project is to cover the likely required raising of the levee in the southwest quadrant. The reminder of the \$50,000 + projects are a budget to take into account likely improvement projects that will be required every 3

FY 2015-2016 FY 2016-2017 FY 2017-2018 FY 2018-2019 FY 2019-2020 FY 2020-2021 FY 2021-2022 FY 2022-2023 FY 2023-2024 FY 2023-2026 FY 2025-2026 FY 2025-2026 FY 2027-2028 FY 2028-2029 FY 2029-2030 FY 2031-2032 FY 2032-2033 FY 2033-2034 FY 2034-2035 FY 2035-2036

The \$31,500 election cost budget is a placeholder every two years into the future whereby we may have the need to conduct a mail ballot election.

Delict election:

The Districts current assessment authority under its current role expires in Fiscal Year 2025-26. This budget projects the preparation of a new Proposition 218 Engineers Report 2 years in advence of this assessment expiration. The reason for etarling two years ahead of the expiration of RD 1608's assessment authority is because if the 1st attempt fails with the RD 1608 constituency then you have 1 more year to adjust you program and seek another affirmative election. \$96,000 for assessment engineering in Fiscal Year 2023-24 is to cover the preparation of a new assessment roll to carry the District revenue into the future. The preliminary budget includes \$65,000 for assessment engineering and maiting and \$25,000 for public outreach.

The Sediment Removal Project is estimated @ \$2.6 million to complete the project all the way to the District Boundary east of I-5 on Fourteenmile Stough.

Assessment revenue was projected to increase 10% beyond the current assessment of 2025-26, plus add a CIP annual increase which was cetimated at 2.5%. Board of Trustees need to consider this assumption.

The Dalta Levee Subventions Program, AB 360, sunsets in Fiscel Year 2017/18. Currently there is no guarantee that this program will be continued. It is very likely that some form of the Program 7 will continue. For budgetary purposes we have shown the program continuing on through the end of this budget limit at the same cost sharing ratios that are currently in place.

We recommend that RD 1606 maintain 2 X its annual income (Assessment & Property Tax Increment) in reserves to provide for 1st strike emergency response funds in the event of a significant flood emergency.

Annual % Increase	
Levee Superintendent	3
Pert Time Employees	3
Payroll Taxes and Expenses	4
Fences & Gates	0
Locks & Signs	4
Weed and Rodent Control & Clean Up	5
Levee Repair Fund (General Operations & A	
Levee Repair Fund (Levee Improvement Pro	
Pump System Maintenance	3
Wireless Services (Cell and Mobile Computer	er) 3
Emergency Equipment & Supplies	, O
Garbage Service	3
District Vehicle (Fuel, Maintenance & Repairs	s) 3
<b>§</b>	•
Trustee Fees	0'
Secretary Fees	3
Office Expenses (includes storage facility)	3
General Legal	3
Audit	2
County Administration Costs	4'
Liability Insurance	4
Workers Comp Insurance	2
Automobile Insurance	2'
Election Costs	0
Newsletter & Public Communications	0'
General Engineering	11
Assessment Engineering	2'
Sediment Removal Project	T

Prepared by Christophar H. Neudeck 11/1/2016

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## **OVERVIEW & CONCURRENCE FORM**

#### PAPERWORK BURDEN DISCLOSURE NOTICE

Public reporting burden for this form is estimated to average 1 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing, reviewing, and submitting the form. You are not required to respond to this collection of information unless it displays a valid OMB control number. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Department of Homeland Security, Federal Emergency Management Agency, 1800 South Bell Street, Arlington, VA 20958-3005, Paperwork Reduction Project (1660-0016). Submission of the form is required to obtain or retain benefits under the National Flood Insurance Program. Please do not send your completed survey to the above address.

#### PRIVACY ACT STATEMENT

AUTHORITY: The National Flood Insurance Act of 1968, Public Law 90-448, as amended by the Flood Disaster Protection Act of 1973, Public Law 93-234.

PRINCIPAL PURPOSE(S): This information is being collected for the purpose of determining an applicant's eligibility to request changes to National Flood Insurance Program (NFIP) Flood Insurance Rate Maps (FIRM).

ROUTINE USE(S): The information on this form may be disclosed as generally permitted under 5 U.S.C § 552a(b) of the Privacy Act of 1974, as amended. This includes using this information as necessary and authorized by the routine uses published in DHS/FEMA/NFIP/LOMA-1 National Flood Insurance Program (NFIP); Letter of Map Amendment (LOMA) February 15, 2006, 71 FR 7990.

DISCLOSURE: The disclosure of information on this form is voluntary; however, failure to provide the information requested may delay or prevent FEMA from processing a determination regarding a requested change to a (NFIP) Flood Insurance Rate Maps (FIRM).

#### A. REQUESTED RESPONSE FROM DHS-FEMA

This	s request is for a (check one):
	☐ CLOMR: A letter from DHS-FEMA commenting on whether a proposed project, if built as proposed, would justify a map revision, or proposed hydrology changes (See 44 CFR Ch. 1, Parts 60, 65 & 72).
)	☑ LOMR: A letter from DHS-FEMA officially revising the current NFIP map to show the changes to floodplains, regulatory floodway or flood elevations. (See 44 CFR Çh. 1, Parts 60, 65 & 72)

#### **B. OVERVIEW**

· ·											
1.	The	∍ NFIP map r	eanel(s) affected	for all impacted commun	ilties is (are)	•					
Cor	nmur	nity No.	Community Na	ime .			State	Map No.	Panel No.	Effective Date	
Exa	mple	e: 480301	City of Katy				TX	48473C	0005D	02/08/83	
060	302	480287	Harris County City of Stockto				TX	48201C	0220G	09/28/90	
UQU	302		San Joaquin C				CA	06077C	0455F	10/16/09	
060	299		City of Stockto				CA	06077C	0315F	10/16/09	
			San Joaquin C	ounty							
2.	a. F	looding Sou	ce: San Joaquir	Delta							
	b. <b>Т</b>	ypes of Floo	ding: 🛛 Riverir	ne 🔲 Coastal	☐ Shallow	/ Flooding (e.g.,	Zones AO	and AH)			
	☐ Alluvial fan ☐ Lakes ☐ Other (Attach Description)										
3.	Proj	ject Name/Id	entifier: RECLAN	MATION DISTRICT 1608	- LINCOLN	VILLAGE WES	Т				
4.	FEN	MA zone desi	gnations affecte	d: X (choices: A, AH, AC	D, A1-A30, A	\99, AE, AR, V,	V1-V30, V	Έ, Β, C, D, X)	)		
5.	Bas	is for Reque	st and Type of R	evision:				•			
	a.	The basis f	or this revision re	equest is (check all that a	pply)						
		☐ Physical	Change	☐ Improved Methodolo	ogy/Data	☐ Regulatory	Floodway	Revision	☐ Base Map C	hanges	
	☐ Coastal Analysis ☐ Hydraulic Analysis ☐ Hydrologic Analysis ☐ Corrections										
}	☐ Weir-Dam Changes										
<i>,</i>		☐ New Top	ographic Data	☐ Other (Attach Descri	iption)						
		Note: A ph	otograph and na	rrative description of the	area of cond	ern is not requi	red, but is	very helpful d	uring review.		

b. The area of revision en	ncompasses the following struc	tures (check all that ap	ply)		
Structures:	☐ Channelization		all Bridge/0	Culvert	
	☐ Dam	☐ Fill	☐ Other (A	ttach Descrip	tion)
6. ☐ Documentation of ESA c	ompliance is submitted (require	ed to initiate CLOMR re	eview). Please refer to	the instructio	ns for more information.
		C. REVIEW FEE			
Has the review fee for the approp	oriate request category been inc	cluded?	☐ Yes	Fee am	nount: \$
			☑ No, Attach	Explanation	
Please see the DHS-FEMA Web	site at http://www.fema.gov/p	lan/prevent/fhm/frm_fe	es.shtm for Fee Amo	unts and Exe	emptions.
	A	D. SIGNATURE			
All documents submitted in supportine or imprisonment under Title 1			dge. I understand tha	t any false st	atement may be punishable by
Name: MICHAEL PANZER		Compa	ny: RD 1608 LINCOL	N VILLAGE W	/EST
Mailing Address:		Daytime	Telephone No.: 209	-948-8200	Fax No.: 209-948-4910
6329 EMBARCADERO DRIVE STOCKTON, CA 95219		E-Mail	\ddress:		•
Signature of Requester (required)	):	<del></del>	Date:		
As the community official respons (LOMR) or conditional LOMR req of the community floodplain mana necessary Federal, State, and loc applicant has documented Endai LOMR requests, I acknowledge t authorized, funded, or being car of the ESA will be submitted. In or will be reasonably safe from flodocumentation used to make this	uest. Based upon the commuragement requirements, including all permits have been, or in the ngered Species Act (ESA) compliance with Sections ried out by Federal or State agaddition, we have determined tooding as defined in 44CFR 65.	nity's review, we find the general the requirements for a case of a conditional legisnes to FEMA prior and 10 of the ESA has gencies, documentation that the land and any estimate that the land and any estimates the land and any	e completed or propose when fill is placed in t OMR, will be obtained to FEMA's review of the sen achieved into the agency shows its proposed steep or proposed steep in the agency shows its proposed steep in the prop	sed project mo he regulatory d. For Condit the Condition ependently of owing its con ructures to be	eets or is designed to meet all floodway, and that all ional LOMR requests, the al LOMR application. For FEMA's process. For actions inpliance with Section 7(a)(2) removed from the SFHA are
Community Official's Name and T	Title: DAVID KWONG DIRECT	FOR COMMUNITY DE	V Community	Name: CITY	OF STOCKTON
Mailing Address:		Daytime	Telephone No.: 209-	937-8444	Fax No.: 209-937-8893
345 N. EL DORADO STREET STOCKTON, CA 95202	1	E-Mail A	Address: DAVID.KWC	NG@STOCK	TONGOV.COM
Community Official's Signature (re	equired): Hawlwa	two	Date: /D	121/16	
CERTIFIC.  This certification is to be signed a elevation information data, hydroledescribed in the MT-2 Forms Instrany false statement may be punis	ogic and hydraulic analysis, an ructions. All documents submit	urveyor, registered pro d any other supporting tted in support of this re	fessional engineer, or information as per NF equest are correct to t	architect auth IP regulations he best of my	orized by law to certify sparagraph 65.2(b) and as
Certifier's Name: CHRISTOPHER	R H. NEUDECK	License	No.: C.E. 43473	Expi	ration Date: JUNE 30, 2018
Company Name: KJELDSON, SI	NNOCK & NEUDECK, INC.	Telepho	ne No.: 209-946-0268	B Fax I	No.: 209-946-0296
Signature: Chushoshex	1 H. Pauleer	Date: 10	0/24/16 E-Mail Ad	ddress: CNEU	JDECK@KSNINC.COM

Form Name and (Number)	Required if	YAM
☐ Riverine Hydrology and Hydraulics Form (Form 2)	New or revised discharges or water-surface elevations	
☐ Riverine Structures Form (Form 3)	Channel is modified, addition/revision of bridge/culverts, addition/revision of levee/floodwall, addition/revision of dam	E C Y
☐ Coastal Analysis Form (Form 4)	New or revised coastal elevations	
☐ Coastal Structures Form (Form 5)	Addition/revision of coastal structure	Z.MI.
☐ Alluvial Fan Flooding Form (Form 6)	Flood control measures on alluvial fans	0.24.

#### DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY

O.M.B. NO. 1660-0016 Expires February 28, 2014

#### **RIVERINE STRUCTURES FORM**

#### PAPERWORK BURDEN DISCLOSURE NOTICE

Public reporting burden for this form is estimated to average 7 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing, reviewing, and submitting the form. You are not required to respond to this collection of information unless a valid OMB control number appears in the upper right corner of this form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Department of Homeland Security, Federal Emergency Management Agency, 1800 South Bell Street, Arlington, VA 20598-3005, Paperwork Reduction Project (1660-0016). Submission of the form is required to obtain or retain benefits under the National Flood Insurance Program. Please do not send your completed survey to the above address.

## Program. Please do not send your completed survey to the above address. PRIVACY ACT STATEMENT AUTHORITY: The National Flood Insurance Act of 1968, Public Law 90-448, as amended by the Flood Disaster Protection Act of 1973, Public Law PRINCIPAL PURPOSE(S): This information is being collected for the purpose of determining an applicant's eligibility to request changes to National Flood Insurance Program (NFIP) Flood Insurance Rate Maps (FIRM). ROUTINE USE(S): The information on this form may be disclosed as generally permitted under 5 U.S.C § 552a(b) of the Privacy Act of 1974, as amended. This includes using this information as necessary and authorized by the routine uses published in DHS/FEMA/NFIP/LOMA-1 National Flood Insurance Program; Letter of Map Amendment (LOMA) February 15, 2006, 71 FR 7990. DISCLOSURE: The disclosure of information on this form is voluntary; however, failure to provide the information requested may delay or prevent FEMA from processing a determination regarding a requested change to a NFIP Flood Insurance Rate Maps (FIRM). Flooding Source: San Joaquin Delta Note: Fill out one form for each flooding source studied. A. GENERAL Complete the appropriate section(s) for each Structure listed below: Channelization.....complete Section B Bridge/Culvert.....complete Section C Dam.....complete Section D Levee/Floodwall.....complete Section E Sediment Transport......complete Section F (if required) Description Of Modeled Structure Name of Structure: RECLAMATION DISTRICT NO. 1608 LINCOLN VILLAGE WEST Type (check one): ☐ Channelization ☐ Bridge/Culvert □ Levee/Floodwall □ Dam Location of Structure: NORTH, EAST AND SOUTH LEVEES Downstream Limit/Cross Section: Upstream Limit/Cross Section: \_\_\_\_\_ Name of Structure: Type (check one): ☐ Channelization ☐ Bridge/Culvert ☐ Levee/Floodwall □ Dam Location of Structure: Downstream Limit/Cross Section: \_\_\_\_ Upstream Limit/Cross Section: \_\_\_ 3. Name of Structure: \_\_ ☐ Channelization Type (check one) ☐ Bridge/Culvert □ Levee/Floodwall Dam Location of Structure: \_ Downstream Limit/Cross Section: \_\_\_ Upstream Limit/Cross Section: \_\_\_ NOTE: FOR MORE STRUCTURES, ATTACH ADDITIONAL PAGES AS NEEDED.

	B. CHANNELIZATION
Floo	ding Source: N/A
Nam	e of Structure:
1.	Hydraulic Considerations
	The channel was designed to carry(cfs) and/or theyear flood. The design elevation in the channel is based on (check one):
	☐ Subcritical flow ☐ Critical flow ☐ Supercritical flow ☐ Energy grade line
	If there is the potential for a hydraulic jump at the following locations, check all that apply and attach an explanation of how the hydraulic jump is controlled without affecting the stability of the channel.
	☐ Inlet to channel ☐ Outlet of channel ☐ At Drop Structures ☐ At Transitions
	☐ Other locations (specify):
2.	Channel Design Plans
	Attach the plans of the channelization certified by a registered professional engineer, as described in the instructions.
3.	Accessory Structures
	The channelization includes (check one):  Levees [Attach Section E (Levee/Floodwall)]
	☐ Weir ☐ Other (Describe):
4.	Sediment Transport Considerations
lf	re the hydraulics of the channel affected by sediment transport?  囗 Yes  囗 No yes, then fill out Section F (Sediment Transport) of Form 3.If No, then attach your explanation for why sediment transport was not dered.

	C, BRIDO	GE/CULVERT				
Floo	oding Source: N/A					
Nan	ne of Structure:					
1.	This revision reflects (check one):					
	☐ Bridge/culvert not modeled in the FIS					
	☐ Modified bridge/culvert previously modeled in the FIS					
	☐ Revised analysis of bridge/culvert previously modeled in the F	IS				
2.	<ol> <li>Hydraulic model used to analyza the structure (e.g., HEC-2 with special bridge routine, WSPRO, HY8): If different than hydraulic analysis for the flooding source, justify why the hydraulic analysis used for the flooding source could not analyze the structures. Attach justification.</li> </ol>					
3.	Attach plans of the structures certified by a registered professional (check the information that has been provided):	l engineer. The plan detail and information should include the following				
	☐ Dimensions (height, width, span, radius, length)	☐ Distances Between Cross Sections				
	☐ Shape (culverts only)	☐ Erosion Protection				
	☐ Material	☐ Low Chord Elevations – Upstream and Downstream				
	☐ Beveling or Rounding	☐ Top of Road Elevations – Upstream and Downstream				
	☐ Wing Wall Angle	☐ Structure Invert Elevations – Upstream and Downstream				
	☐ Skew Angle	☐ Stream Invert Elevations – Upstream and Downstream				
		☐ Cross-Section Locations				
4.	Sediment Transport Considerations					
	Are the hydraulics of the structure affected by sediment transport?	Yes No				
	If Yes, then fill out Section F (Sediment Transport) of Form 3. If no, then attach an explanation.					

			D. DAM/BASI	N .
		Source: <u>N/A</u> Structure:		
1.	This	request is for (check one):	m/basin 🔲 New dar	n/basin
2.	The	dam/basin was designed by (check one): $\Box$ Fede	ral agency 🗌 State ag	ency 🔲 Private organization 🔲 Local government agency
	Nan	ne of the agency or organization:		
3.	The	Dam was permitted as (check one):	Dam □ S	tate Dam
		Provide the permit or identification number (ID) for	or the dam and the appr	opriate permitting agency or organization
		Permit or ID number Per	mitting Agency or Orga	nization
	a,	☐ Local Government Dam ☐ Private Dam		
		Provided related drawings, specification and supp	porting design informati	on.
4.	Doe	es the project involve revised hydrology?	□ No	
	If Y	es, complete the Riverine Hydrology & Hydraulics I	Form (Form 2).	
	Was	s the dam/basin designed using critical duration sto	rm? (must account for t	ne maximum volume of runoff)
		Yes, provide supporting documentation with your c	completed Form 2.	
		No, provide a written explanation and justification f	or not using the critical	duration storm.
5.	Doe	es the submittal include debris/sediment yield analy	rsis? ☐ Yes ☐ No	
	lf Ye	s, then fill out Section F (Sediment Transport). If N	lo, then attach your exp	lanation for why debris/sediment analysis was not considered?
6.	Does	s the Base Flood Elevation behind the dam/basin o	or downstream of the da	m/basin change? 🔲 Yes 🔲 No
	If Ye	s, complete the Riverine Hydrology & Hydraulics F	orm (Form 2) and comp	elete the table below.
			ater Elevation Behind th	
		FREQUENCY (% annual chance)	FIS	REVISED
		10-year (10%) 50-year (2%)		
		100-year (1%)	<del></del>	
		500-year (0.2%)		
7	Dlog	Normal Pool Elevation	tonones Plen	
7,	riea	se attach a copy of the formal Operation and Maint		
1.	Sys	stem Elements	E. LEVEE/FLOOD	VALL
	a.	This Levee/Floodwall analysis is based on (check	one):	upgrading of a newly reanalysis of an existing constructed levee/floodwall system reanalysis of an existing levee/floodwall system
	b.	Levee elements and locations are (check one):		
		arthen embankment, dike, berm, etc.	Station <u>5+00</u> to <u>187+0</u>	
		<ul> <li>☐ structural floodwall</li> <li>☐ Other (describe):</li> </ul>	Station to	
		Giller (describe).	Station to	_
	c.	Structural Type (check one):	in place reinforced con	crete  reinforced concrete masonry block  sheet piling
	d.	Has this levee/floodwall system been certified by a	a Federal agency to pro	vide protection from the base flood?
	$\boxtimes$	Yes 🗌 No	•	
	lf Y	es, by which agency? FEMA (GRANDFATHER	ED)	

	e.	Attacl	certified d	lrawings	containing	the following	information (i	ndicate drawir	ng sheet numbers):					
		1. Pl	an of the le	vee emb	ankment ar	nd floodwall	structures.			Sheet N	umbers: 4	Γ <u>Ο 10</u>		
		lev	ee and/or	wali cres	t and found	lation, and cl	losure location	ood Elevation is for the total elevations, typ	levee system.	Sheet N	Sheet Numbers: 4 TO 10			
			<ol><li>A profile of the BFE, closure opening outlet and inlet invert elevations, type and size of opening, and kind of closure.</li></ol>								Sheet Numbers: 4 TO 22			
		4. A	ayout detai	il for the	embankme	nt protection	measures.			Sheet N	umbers: <u>23</u>			
				-		•	vee embankm ump stations.	ent features, f	foundation treatment,	Sheet N	umbers: <u>4</u>	Γ <u>Ο 22</u>		
2.	Fr	eeboar	<u>d</u>											
		a. Th	e minimum	reeboa	rd provided	above the E	BFE is:							
		12	4 NAVI	D88										
		River	<u>ine</u>											
		3.0 fe	et or more	at the do	ownstream	end and thro	oughout				⊠ Yes	□No		
		3.5 fe	et or more	at the up	ostream en	d					🛚 Yes	□ No		
		4.0 fe	et within 10	00 feet u	pstream of	all structure:	s and/or const	rictions			⊠ Yes	□ No		
		Coas	tal <u>N/A</u>											
							ve associated up (whichever	with the 1%-ar is greater).	nnual-chance		☐ Yes	□No		
		2.0 fe	et above th	ne 1%-an	nnual-chand	e stillwater s	surge elevatio	n			☐ Yes	□ No		
								n freeboard re IP Regulations	equirement. If an exceps.	tion is requ	uested, atta	ch		
		If No	is answere	d to any	of the abov	e, please att	tach an explar	nation.						
	b.	is ther	e an indica	tion from	historical r	ecords that	ice-jamming c	an affect the B	BFE? ☐ Yes	□ No				
	lf Y	es, pro	vide ice-jan	n analysi	s profile an	d evidence t	hat the minim	um freeboard	discussed above still e	dists.				
3.	<u>C</u>	losures												
		•			CLOS		NOT APPLICA	ABLE. ALL OP	does not exist PENINGS CONSIST OF DISCHARGE, ETC)	PIPE PEN	ETRATION	S THAT ARE		
	Cha	annel S	ation	L	eft or Right	t Bank	Open	ing Type	Highest Elevati Opening Inv		Type of	Closure Device		
										_				
				1							, .	<u> – – – – – – – – – – – – – – – – –</u>		
					<del></del>									
<del></del>														
(Ext	end	table o	n an add	ed shee	t as need	ed and refe	rence)							
Note	e: G	eotech	ınical and	geologi	ic data									
									and laboratory inves					
					ı features -1906 Fori		submitted in	a tabulated s	summary form. (Ref	erence U.	S. Army C	Corps of		

4.	<u>Em</u>	bankment Protection	1							
	a.	The maximum leve	e slope land sid	le is: 3:1 (T)	<u>'PICAL)</u>					
	b.	The maximum levee slope flood side is: 2:1 (TYPICAL)								
	c.	The range of veloci	ities along the le	evee during th	e base flood is	: <u>0 FPS</u> (min.)	to <u>2.5 FF</u>	<u> </u>	)	
	d.	Embankment mater	rial is protected	by (describe	what kind): <u>18</u>	INCH MINUS	QUARRY	STONE	<u>RIPRAP</u>	
	e.	Riprap Design Para Attach references	ameters (check N/A - ANALYSIS	one): OF EXISTING	☐ Velocity LEVEE	Т	ractive str	ess		
				Flow		Curve or		Stone	Riprap	
		Reach	Sideslope	Depth	Velocity	Straight	D <sub>100</sub>	D <sub>60</sub>	Thickness	Depth of Toedown
Sta		to								
Sta		to								
Sta		to								
Sta		to								
Sta		to								
Sta		to								
(Exte	nd ta	able on an added sh	eet as needed a	and reference	each entry)					
	f.	ls a bedding/filter ar	nalysis and des	ign attached?	⊓ Yes 🛭	∐ No				
	g.	Describe the analys	sis used for othe	er kinds of pro	tection used (in	nclude copies	of the des	ign analy	sis):	
		N/A ANALYSIS OF	EXISTING LEV	'EE						
Attac	h eng	gineering analysis to	support constr	uction plans.						
5.	Emt	pankment And Foun	dation Stability							
	a. <u>REF</u>	Identify locations a						<u>BMITTAL</u>		
		Overall height:	Sta.:, he	ight ft.						
		Limiting foundat	ion soil strength	n;						
		Strength φ=_	degrees,	c = psi	f					
		Slope: SS =	(h) to	_ (v)						
		(Repeat as nee	eded on an add	ed sheet for a	dditional location	ons)				
	b. <u>CIR</u> (	Specify the embani			odology used (	e.g., circular a	arc, sliding	block, in	finite slope, etc.):	
	C.	Summary of stabilit	ty analysis resu	lts: <u>REFER T</u>	O SECTION 8	OF THE GEOT	ECH REF	PORT		

a. The maximum lovee slope land side is: 3:1(TYPICAL) b. The maximum lovee slope flood side is: 2:1(TYPICAL) c. The range of volocitiba along the lavea during the base flood is: 0:EPS (min.) to 2:5 EPS (max.) d. Embankment material is protected by (describe what kind): 19 INCH MINUS QUARRY STONE RIPRAP e. Riprap Design Parameters (check one):	4.	<u>Em</u>	bankment Protection	<u>n</u>					·		
c. The range of volocities along the levee during the base flood is: 0.EPS (min.) to 2.5EPS (minx.)  d. Embankment material is protected by (describe what kind): 18 NCH MINUS QUARRY STONE RIPRAP  e. Riprap Design Parameters (check one):		a.	The maximum leve	e slope land sid	le is: <u>3:1 (TY</u>	PICAL)					
d. Embankment material is protected by (describe what kind): 18 INCH MINUS QUARRY STONE RIPRAP  e. Riprap Design Parameters (check one):		b.	The maximum leve	e slope flood si	de is: 2:1 (TY	(PICAL)					
e. Riprap Design Parameters (check one):		c.	The range of veloc	ities along the le	evee during th	e base flood is	: <u>0 FPS</u> (min.)	to <u>2.5 F</u> F	<u> </u>		
Attach references N/A- ANALYSIS OF EXISTING LEVEE  Reach		d.	Embankment mate	rial is protected	by (describe	what kind): <u>18</u>	INCH MINUS	QUARRY	STONE	RIPRAP	
Side slope Piph Velocity Straight D100 D50 Thickness Depth of Toedown  Sta to D50 Thickness Depth of Toedown  Sta to D50 Thickness D50 Thickn		e.	Riprap Design Para Attach references	ameters (check <u>N/A~ A<b>N</b>ALYSI</u> S	one): S OF EXISTING	☐ Velocity GLEVEE	, П	ractive str	ess		
Sidestope Dopth Valocity Straight Doo Doo Thickness Depth of loedown  Sta to					Elou		Curvo or		Stone	Riprap	
Sta to  (Extend table on an added sheet as needed and reference each entry)  f. Is a bodding/filter analysis and design attached?   Yes   No  g. Describe the analysis used for other kinds of protection used (include copies of the design analysis):  N/A ANALYSIS OF EXISTING LEVEE  Attach engineering analysis to support construction plans.  5. Embankment And Foundation Stability  a. Identify locations and doscribe the basis for selection of critical location for analysis:  REFER TO GEOTECHNICAL REPORT SECTION 8.2, VOLUME 2 OF THIS REPORT FOR SUBMITTAL  Overall height: Sta:, height ft.  Limiting foundation soil strength:  Strength \$\phi = degrees, c = psf  Slope: SS = (h) to (v)  (Repeat as needed on an added sheet for additional locations)  b. Specify the embankment stability analysis methodology used (e.g., circular arc, sliding block, infinite slope, etc.):  CIRCULAR ARC (SPENCERS METHOD)			Reach	Sideslope		Velocity		D <sub>100</sub>	D <sub>50</sub>	Thickness	Depth of Toedown
Sta to  Sta bedding/filter analysis and design attached?  Sta to to  G. Describe the analysis used for other kinds of protection used (include copies of the design analysis):  N/A ANALYSIS OF EXISTING LEVEE  Attach engineering analysis to support construction plans.  Sta dentify locations and describe the basis for selection of critical location for analysis:  REFER TO GEOTECHNICAL REPORT SECTION 8.2, VOLUME 2 OF THIS REPORT FOR SUBMITTAL  Overall height: Sta:, height ft.  Limiting foundation soil strength:  Strength \$\phi = degrees, c = psf  Slope: SS = (h) to(v)  (Repeat as needed on an added sheet for additional locations)  b. Specify the embankment stability analysis methodology used (e.g., circular arc, sliding block, infinite slope, etc.): CIRCULAR ARC (SPENCERS METHOD)	Sta		to	-							
Sta to  Sta to  (Extend table on an added sheet as needed and reference each entry)  f. Is a bodding/filter analysis and design attached?   Yes   No  g. Describe the analysis used for other kinds of protection used (include copies of the design analysis):  N/A ANALYSIS OF EXISTING LEVEE  Attach engineering analysis to support construction plans.  5. Embankment And Foundation Stability  a. Identify locations and describe the basis for selection of critical location for analysis:  REFER TO GEOTECHNICAL REPORT SECTION 8.2, VOLUME 2 OF THIS REPORT FOR SUBMITTAL    Overall height: Sta.:, heightft.    Limiting foundation soil strength:  Strength	Sta		to								
Sta to  (Extend table on an added sheet as needed and reference each entry)  f. Is a bodding/filter analysis and design attached?  Yes No  g. Describe the analysis used for other kinds of protection used (Include copies of the design analysis):  N/A ANALYSIS OF EXISTING LEVEE  Attach engineering analysis to support construction plans.  5. Embankment And Foundation Stability  a. Identify locations and describe the basis for selection of critical location for analysis:  REFER TO GEOTECHNICAL REPORT SECTION 8.2, VOLUME 2 OF THIS REPORT FOR SUBMITTAL  Overall height: Sta.: height ft.  Limiting foundation soil strength:  Strength	Sta		to					i			
(Extend table on an added sheet as needed and reference each entry)  f. Is a bedding/filter analysis and design attached?  ☐ Yes  ☒ No  g. Describe the analysis used for other kinds of protection used (include copies of the design analysis):  N/A ANALYSIS OF EXISTING LEVEE  Attach engineering analysis to support construction plans.  5. Embankment And Foundation Stability  a. Identify locations and describe the basis for selection of critical location for analysis:  REFER TO GEOTECHNICAL REPORT SECTION 8.2, VOLUME 2 OF THIS REPORT FOR SUBMITTAL  ☐ Overall height: Sta::, height ft.  ☐ Limiting foundation soil strength:  Strength	Sta		to								
(Extend table on an added sheet as needed and reference each entry)  f. Is a bedding/filter analysis and design attached?	Sta		to			:					
f. Is a bedding/filter analysis and design attached? ☐ Yes ☒ No  g. Describe the analysis used for other kinds of protection used (include copies of the design analysis):  N/A ANALYSIS OF EXISTING LEVEE  Attach engineering analysis to support construction plans.  5. Embankment And Foundation Stability  a. Identify locations and describe the basis for selection of critical location for analysis:  REFER TO GEOTECHNICAL REPORT SECTION 8.2, VOLUME 2 OF THIS REPORT FOR SUBMITTAL  ☐ Overall height: Sta.:, height ft.  ☐ Limiting foundation soil strength:  Strength	Sta		to								
	Attao	<ul> <li>f. Is a bedding/filter analysis and design attached? ☐ Yes ☒ No</li> <li>g. Describe the analysis used for other kinds of protection used (include copies of the design analysis):  N/A ANALYSIS OF EXISTING LEVEE</li> <li>Attach engineering analysis to support construction plans.</li> <li>5. Embankment And Foundation Stability  a. Identify locations and describe the basis for selection of critical location for analysis:  REFER TO GEOTECHNICAL REPORT SECTION 8.2, VOLUME 2 OF THIS REPORT FOR SUBMITTAL  ☐ Overall height: Sta.:, height ft.  ☐ Limiting foundation soil strength:  Strength φ = degrees, c = psf  Slope: SS = (h) to (v)  (Repeat as needed on an added sheet for additional locations)</li> <li>b. Specify the embankment stability analysis methodology used (e.g., circular arc, sliding block, infinite slope, etc.):  CIRCULAR ARC (SPENCERS METHOD)</li> </ul>									

#### E. LEVEE/FLOODWALL (CONTINUED) Embankment And Foundation Stability (continued) Case Loading Conditions Critical Safety Factor Criteria (Min.) ı End of construction 1.3 Ш Sudden drawdown 1.0 Critical flood stage 111 1.4 IV Steady seepage at flood stage 1.4 VΙ Earthquake (Case I) 1.0 (Reference: USACE EM-1110-2-1913 Table 6-1) d. Was a seepage analysis for the embankment performed? If Yes, describe methodology used: "SEEP/W" BY GEO-SLOPE INTERNATIONAL-STEADY STATE ANALYSIS e. Was a seepage analysis for the foundation performed? Yes ☐ No f. Were uplift pressures at the embankment landside toe checked? Were seepage exit gradients checked for piping potential? Yes □ No The duration of the base flood hydrograph against the embankment is \_\_\_\_\_ hours. Attach engineering analysis to support construction plans. REFER TO GEOTECHNICAL REPORT IN SECTION 1, VOLUME 2 OF THIS REPORT SUBMITTAL Floodwall And Foundation Stability N/A ☐ UBC (1988) a. Describe analysis submittal based on Code (check one): Other (specify): \_\_\_\_\_ b. Stability analysis submitted provides for: Overturning Sliding If not, explain: \_\_\_ c. Loading included in the analyses were: ☐ Lateral earth @ P<sub>A</sub> = \_\_\_\_\_ psf; P<sub>p</sub> = \_\_\_\_\_ psf ☐ Surcharge-Slope @ \_\_\_\_\_, ☐ surface \_\_\_\_\_psf ☐ Wind @ P<sub>w</sub> = \_\_\_\_ psf ☐ Seepage (Uplift); \_\_\_\_\_ ☐ Earthquake @ Peq = \_\_\_\_\_%g ☐ 1%-annual-chance significant wave height: \_\_\_\_\_ft. ☐ 1%-annual-chance significant wave period: Summary of Stability Analysis Results: Factors of Safety. Itemize for each range in site layout dimension and loading condition limitation for each respective reach. Criteria (Min) Sta Τo Sta То Loading Condition Overturn Sliding Overturn Sliding Overturn Sliding Dead & Wind 1.5 1.5 Dead & Soil 1.5 1.5 Dead, Soil, Flood, & 1.5 1.5 Impact Dead, Soil, & Seismic 1.3 1.3

(Ref: FEMA 114 Sept 1986; USACE EM 1110-2-2502) Note: (Extend table on an added sheet as needed and reference)

		E. LEV	EE/FLOODWALL (CONTINUED)	
6.	Flo	podwall And Foundation Stability (continued)		
	е.	Foundation bearing strength for each soil type:		
		Bearing Pressure	Sustained Load (psf)	Short Term Load (psf)
Com	pute	ed design maximum		1801100 - 1 11 11 11 11
Maxi	mun	n allowable		
	f.	Foundation scour protection  is, is not provid	ed. If provided, attach explanation and sup	porting documentation:
		Attach engineering analysis to support construction	ı plans.	
7.	Set	<u>ttlement</u>		
	a.	Has anticipated potential settlement been determinestablished freeboard margin?	No N/A-EXISTING LEVEE. THERE	struction elevations to maintain the WILL BE NO CONSTRUCTION ON THE OF FILL, THEREFORE LOSS OF
	b.	The computed range of settlement is ft. to _	ft. FREEBOARD DUE TO SETTLE	EMENT IS MINIMAL.
	c.	Settlement of the levee crest is determined to be p  ☑ Other (Describe): MINIMAL SETTLEMENT, RI	rimarily from :	idation
	d.	Differential settlement of floodwalls   has   has   has	as not been accommodated in the structura	design and construction.
		Attach engineering analysis to support construction	n plans. <u>N/A - EXISTING LEVEE</u>	
8.	<u>Inte</u>	<u>erior Drainage</u>		
	a.	Specify size of each interior watershed:		
		Draining to pressure conduit: 863 acres Draining to ponding area: 806 acres		
	b.	Relationships Established		
		Ponding elevation vs. storage Ponding elevation vs. gravity flow Differential head vs. gravity flow	⊠ Yes □ No ⊠ Yes □ No ⊠ Yes □ No	
	c.	The river flow duration curve is enclosed:	☐ Yes	
	ď.	Specify the discharge capacity of the head pressure	conduit: 66 cfs COMBINED CAPACITY	FOR BOTH PUMPING FACILTIES
	e.	Which flooding conditions were analyzed?		
		Gravity flow (Interior Watershed)	⊠ Yes □ No	
		Common storm (River Watershed)	☐ Yes        No	
		Historical ponding probability	☐ Yes ☒ No	
		Coastal wave overtopping	☐ Yes	
		If No for any of the above, attach explanation. SE	E ATTACHED SHEETS FOR EXPLANATIO	<u>N</u>
	e.	Interior drainage has been analyzed based on join facilities to provide the established level of flood provide the established level of flood provides the provide the established level of flood provides the provid	it probability of interior and exterior flooding rotection. ☑ Yes ☐ No If No, attach	
	g.	The rate of seepage through the levee system for t	he base flood is <u>0.25</u> cfs	
	h.	The length of levee system used to drive this seeps	age rate in item g:1 <u>8,200</u> ft.	

	E. LEVEE/FLOODWALL (	CONTINUED)				
8. <u>Interior Drainage (continued)</u>						
i. Will pumping plants be used for interio	or drainage?	⊠ Yes □ No				
If Yes, include the number of pumping	g plants: <u>2 Municpal</u> For each pur	mping plant, list:				
	<del></del>	<del></del>	T			
	Plant #1		Plant #2			
The number of pumps	3		2			
The ponding storage capacity	226 Acre-ft		5.7 Acre-ft			
The maximum pumping rate	33 cfs	!	26 cfs			
The maximum pumping head	25 ft.		21 ft.			
The pumping starting elevation	UNKNOWN CITY PUMPS		UNKNOWN CITY PUMPS			
The pumping stopping elevation	UNKNOWN CITY PUMPS		UNKNOWN CITY PUMPS			
is the discharge facility protected?	NO		NO			
Is there a flood warning plan?	YES		YES			
How much time is available between warning and flooding?	24-72 HRS	1	N/A			
Will the operation be automatic?	<u>.                                    </u>	 ☑ Yes	∏ No			
If the pumps are electric, are there backup power	r sources?	⊠ Yes	□ No BACKUP GENERATOR TOWED IN			
(Reference: USACE EM-1110-2-3101, 3102, 31	i03, 3104, and 3105)					
Include a copy of supporting documentation of da interior watersheds that result in flooding. NO FL	ata and analysis. Provide a map si LOODING ANTICIPATED.	howing the floode	ed area and maximum ponding elevations for all			
9. Other Design Criteria						
a. The following items have been address	sed as stated:		•			
Liquefaction ☐ is ☒ is not a problem						
Hydrocompaction ☐ is ☒ is not a pro	roblem					
Heave differential movement due to so	oils of high shrink/swell ☐ is 🛛 is	s not a problem				
b. For each of these problems, state the b			·			
REFER TO THE GEOTECHNICAL REF	PORT IN SECTION 1, VOLUME 2	OF THE SUDIVI	ITAL REPORT			
Attach supporting documentation						
	d, will the structure adversely impa supporting documentation	ct flood levels and	d/or flow velocities floodside of the structure?			
	V/A EXISTING LEVEE. NO NEW P	'ROJECTS ANTIC	CIPATED WHICH WILL IMPACT THE FLOOD SIDE			
Was sediment transport considered? If Yes, then fill out Section F (Sedimen 10. <u>Operational Plan And Criteria</u>	☐ Yes   ☑ No nt Transport). If No, then attach yo	our explanation for	or why sediment transport was not considered.			
a. Are the planned/installed works in full o	compliance with Part 65.10 of the	NFIP Regulations	s? 🛛 Yes 🔲 No			
·	·	-	Paragraph 65.10(c)(1) of the NFIP regulations?			
<ul> <li>∠ Yes  ☐ No</li> <li>c. Does the operation plan incorporate all the provisions for interior drainage as required in Paragraph 65.10(c)(2) of the NFIP regulations?</li> <li>∠ Yes ☐ No If the answer is No to any of the above, please attach supporting documentation.</li> </ul>						

#### E. LEVEE/FLOODWALL (CONTINUED)

#### Maintenance Plan

Please attach a copy of the fomal maintenance plan for the levee/floodwall

THE OPERATION & MAINTENANCE PLAN IS ENCLOSED IN SECTION 4, VOLUME 1 OF THIS REPORT SUBMITTAL

Operations and Maintenance Plan

Please attach a copy of the formal Operations and Maintenance Plan for the levee/floodwall. THE OPERATION & MAINTENANCE PLAN IS ENCLOSED IN SECTION 4, VOLUME 1 OF THIS REPORT SUBMITTAL

#### **CERTIFICATION OF THE LEVEE DOCUMENTION**

I his certification is to be signed and sealed by a licensed registered professional engineer authorized by law to certify elevation information data, hydrologic and hydraulic analysis, and any other supporting information as per NFIP regulations paragraph 65.10(e) and as described in the MT-2 Forms Instructions. All documents submitted in support of this request are correct to the best of my knowledge. I understand that any false statement may be punishable by fine or imprisonment under Title 18 of the United States Code, Section 1001.
Certifier's Name: CHRIS NEUDECK License No.: 43473 Expiration Date: 06/30/2018
Company Name: KJELDSON, SINNOCK, NEUDECK, INC. Telephone No.: 209-946-0268 Fax No.:
Signature: Date: _ E-Mail Address: <u>CNEUDECK@KSNINC.COM</u>
F. SEDIMENT TRANSPORT
Flooding Source: N/A
Name of Structure:
If there is any indication from historical records that sediment transport (including scour and deposition) can affect the Base Flood Elevation (BFE); and/or based on the stream morphology, vegetative cover, development of the watershed and bank conditions, there is a potential for debris and sediment transport (including scour and deposition) to affect the BFEs, then provide the following information along with the supporting documentation:
Sediment load associated with the base flood discharge: Volume acre-feet
Debris load associated with the base flood discharge: Volume acre-feet
Sediment transport rate (percent concentration by volume)
Method used to estimate sediment transport:
Most sediment transport formulas are intended for a range of hydraulic conditions and sediment sizes; attach a detailed explanation for using the selected method.
Method used to estimate scour and/or deposition:
Method used to revise hydraulic or hydrologic analysis (model) to account for sediment transport:
Please note that bulked flows are used to evaluate the performance of a structure during the base flood; however, FEMA does not map BFEs based on bulked flows.
If a sediment analysis has not been performed, an explanation as to why sediment transport (including scour and deposition) will not affect the BFEs or structures must be provided.

#### **ATTACHMENTS**

#### MT-2 FORM 1: OVERVIEW AND CONCURRENCE

#### C. REVIEW FEE

A fee is not submitted with this package as this submittal is a request for additional data and not an new submittal.

#### MT-2 FORM 3: RIVERINE STRUCTURES FORM

### E. LEVEE/FLOODWALL (ATTACHMENT #2)

- 8. Interior Drainage
  - e. Which flooding conditions were analyzed?
    - Common Storm (River Watershed) No
       Explanation: Interior watershed drainage was only analyzed. River watersheds were not a part of the analysis.
    - Historical ponding probability
       Explanation: Historical ponding is not possible on the Levee
       Structure and any possibility of interior ponding is indirectly studied with the Gravity Flow (Interior Watershed) analysis.
    - Coastal wave overtopping No Explanation: This is not a coastal project.