

CITY COUNCIL

Christopher Dobbs, Mayor
Bruce T. Roundy, Vice-Mayor
Jeffrey A. Tolley
John McDermott
Mathew Romano

CITY OFFICIALS

Jennifer Schmitke
City Clerk

Leticia Espinosa
City Treasurer

CITY OF ORLAND

INCORPORATED 1909

815 Fourth Street
ORLAND, CALIFORNIA 95963
Telephone (530) 865-1600
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CITY MANAGER

Peter R. Carr

If anyone wishes to address the Commission on an item to be considered at this meeting, please fill out a Speaker Request Form and submit to the Secretary before the meeting begins. (optional)

**Meeting Place: Carnegie Center
912 Third Street
Orland, CA 95963
Additional Option: Zoom Meeting**

AGENDA

ORLAND PUBLIC WORKS & SAFETY COMMISSION

Tuesday, February 14, 2023 at 4:00 P.M.

The public may also participate in the meeting by telephone or access the video via Zoom.

Please call: 1(669) 900-9128 Webinar ID#: 833 4787 2892

1. CALL TO ORDER – 4:00 P.M.

2. PLEDGE OF ALLEGIANCE

3. ROLL CALL

4. ORAL AND WRITTEN COMMUNICATION

A. Citizen Business:

Members of the public wishing to address the Commission on any item(s) not on the agenda may do so at this time when recognized by the Chairperson; however, no formal action or discussion will be taken unless placed on a future agenda. Public is advised to limit discussion to one presentation per individual. While not required, please state your name and address for the record. **(Oral communications will be limited to three minutes).**

5. ELECTION OF COMMISSION CHAIR AND VICE CHAIR 2023

6. CONSENT CALENDAR

A. Approval of Prior Minutes April 12, 2022

B. Approval of Prior Minutes December 13, 2022

- 7. **PUBLIC WORKS**
 - A. Wastewater Treatment Plant Conceptual Improvements
 - B. Future Street Sign Locations/Traffic Mitigation Sites (Verbal Discussion-No Staff Report)
 - C. Public Works Department Updates
 - D. Groundwater Well Level Update

- 8. **PUBLIC SAFETY**
 - A. Fire Department Update
 - B. Police Department Update

- 9. **GENERAL**
 - Next Meeting – April 11, 2023

10. **COMMISSIONER REPORTS**

11. **FUTURE AGENDA ITEMS**

12. **ADJOURN**

CERTIFICATION: Pursuant to Government Code Section 54954.2(a), the agenda for this meeting was properly posted on February 9, 2023.

A complete agenda packet is available for public inspection during normal business hours at City Hall, 815 Fourth Street, Orland CA.

In compliance with the Americans with Disabilities Act, the City of Orland will make available to members of the public any special assistance necessary to participate in this meeting. The public should contact the City Clerk's office 865-1601 to make such a request. Notification 72 hours prior to the meeting will enable the City to make reasonable arrangements to ensure accessibility to this meeting.

PUBLIC WORKS & SAFETY COMMISSION

Meeting Minutes

April 12, 2022

1. Call to Order

The meeting was called to order by Chairperson Paschall at 4:00 pm

2. Pledge of Allegiance – led by Public Works Director Ed Vonasek

3. Roll Call

Present: Chairperson James Paschall Sr., Vice Chairperson Monica Rossman, Commissioner Emil Cavagnolo, Commissioner Byron Denton, Commissioner John McDermott.

Councilmembers: None

Staff: Joe Vlach, Police Chief; Ed Vonasek, Director of Public Works; Meagan Mondragon, Secretary/Admin Technician; Jennifer Schmitke, City Clerk

4. Oral and Written Communications

A. Citizen Business:

Mayor Dennis Hoffman, 932 Trinity St., expressed his gratitude to the entire commission.

Ray & Laverne Brown, 506 East St., expressed their concerns about unfinished updates to their property that were promised since the completion of the Tehama Street project including fencing issues and replacement trees. Ms. Brown addressed the issue of the street not having four way stops, the absence of a crosswalks on the corner of East Street and Tehama Street, as well as not enough streetlights. Ms. Brown spoke about her concerns for the safety of the many school kids that walk down Tehama and East Streets because of the fast-moving traffic since the road project completed. Mr. Vonasek acknowledged their concerns and will be looking into the issues. Chairperson Paschall acknowledged and verified with Mr. Vonasek that he understood all their concerns.

5. Election of Commission Chair and Vice Chair 2022

Commissioner McDermott nominated Chairperson Paschall, with no other nominations being made the Commission voted in Chairperson Paschall as the new Chairperson. Moved by Commissioner McDermott, seconded by Commissioner Denton, motion carried to approve new Commission Chairperson 5-0. Ayes: Paschall, Denton, Cavagnolo, Rossman, and McDermott; Noes: None; Abstain: None, Absent: None.

Commissioner McDermott nominated Vice Chairperson Rossman, with no other nominations being made the Commission voted in Vice Chairperson Rossman as the new Vice Chairperson. Moved by Commissioner McDermott, seconded by Commissioner Cavagnolo, motion carried to approve new Commission Vice

PUBLIC WORKS & SAFETY COMMISSION MINUTES

April 12, 2022

Page 2

Chairperson 5-0. Ayes: Cavagnolo, Denton, Paschall, Rossman and McDermott;
Noes: None; Abstain: None; Absent: None.

6. Consent Calendar

Commissioner Cavagnolo motioned to approve the February 8, 2022 minutes as well as the AB 361 Compliance as presented seconded by Vice Chairperson Rossman, motion carried 5-0 by the following voice vote. Ayes: Cavagnolo, Paschall, McDermott, Rossman, and Denton; Noes: None; Abstain: None; Absent: None.

7. Public Works Department Updates

A. Public Works Department Updates

Mr. Vonasek stated that City Council approved the Stage 2 Contingency Plan at the regular March 15th, 2022, Council meeting and the plan will go into effect as of May 1st, 2022. The Stage 2 plan consists of which 3 days of watering during 8pm to 8am you can water your yard, there will be a tier system for overages, Tiers are listed below

Tier 1: \$63.31 bi-monthly up to 15,000 gallons
Tier 2: \$2.00/1000 gals 15,001-23,000 gallons
Tier 3: \$4.00/1000 gals 23,001-30,000 gallons
Tier 4: \$6.00/1000 gals > 30,000 gallons

City staff sent out the Stage 2 Contingency Plan on the back of the March 2022 water bills and can be found on the City website.

B. Groundwater Well Level Update

Mr. Vonasek stated that the water levels are down and still monitored weekly. Mr. Vonasek asked Commissioner Cavagnolo if he had anything forecasted for long term. Commissioner Cavagnolo expressed his concern for another year without rain and since the ground water is already depleted it will continue to deplete this year.

8. Public Safety

A. Fire Department Update

Assistant Fire Chief McDermott informed the Commission that the new side-by-side has arrived, Engine # 27 should be built by the end of July and the new water tender should be here around the same time. Chairperson Paschall asked if they have received the Dozer for Fire Department. Assistant Fire Chief McDermott stated that he had to correct some paperwork for the grant but that he received an email that the funds for Dozer should be available around May. Assistant Fire Chief McDermott announced that the Fireman's Ball was amazing, the ball had great attendance and an amazing band, which will be back next year.

PUBLIC WORKS & SAFETY COMMISSION MINUTES

April 12, 2022

Page 3

B. Police Department Update

Police Chief Vlach announced that the combined Radio Project at Black Butte is still being worked on as they research and find new frequencies but making great progress on it. Chief Vlach stated that this will help hit the local repeater versus a farther away repeater and going to have private digital channels for police and fire to keep communication within the overall county.

Chief Vlach stated that there is going to be combined public safety projects together with Police, City Hall, and Public Works on access control and video surveillance. Chief Vlach shared that the next combined project will be fencing around Public Works Yard for both Police and Public Works departments.

Chairman Paschall asked Chief Vlach if the Police Department is fully staffed. Chief Vlach stated that there is one new hire that will start academy in July Officer Lowery will be the new School Resource Officer (SRO) leaving another opening in the department and currently there is a position within the office staff that is going thru the hiring process for the evidence/records clerk.

9. Commissioner Projects

A. Discussion

Commission Denton asked about status of the Truck Route. Chief Vlach announced that it will be on the agenda for the April 19th City Council meeting.

10. General

A. Schedule of Next Meeting

The next regularly scheduled Commission meeting will take place at Carnegie Center at 4 pm, June 14, 2022

11. Commissioner Communications

None

12. ADJOURNMENT – 4:37 PM

Respectfully submitted,

Meagan Mondragon, Secretary

James Paschall Sr., Chair

PUBLIC WORKS & SAFETY COMMISSION

Meeting Minutes

December 13, 2022

1. Call to Order

The meeting was called to order by Chairperson Paschall at 4:01pm

2. Pledge of Allegiance – led by Vice Chairperson Rossman

3. Roll Call

Present: Chairperson James Paschall Sr., Vice Chairperson Monica Rossman,
Commissioner Emil Cavagnolo (4:56 pm), Commissioner Byron Denton.

Councilmembers: Councilmember Roundy & Councilmember McDermott

Staff: Joe Vlach, Police Chief; Ed Vonasek, Director of Public Works;
Jennifer Schmitke, Secretary/City Clerk; Justin Chaney, Fire Chief;
Meagan Mondragon, Secretary Admin Technician, Paul Rabo; City Engineer.

4. Oral and Written Communications

A. Citizen Business:

Vicci Wackerman owner of The Pickin' Chicks and Dee Dee Jackson owner of Collective Habits voiced their concerns about crimes that have affected downtown businesses. The business owners are seeking advice and solutions to feel safer in their businesses. Orland Police Chief, Joe Vlach reassured them that in any situation where they are feeling uneasy, they should immediately call 911. Chief Vlach stated that he recommends businesses set up a security system, or to call 911 and leave the phone on counter. Police Sergeant, Kyle Cessna, informed the business owners and Commissioners that Glenn County dispatch is working on a 911 text message system that will soon be going into effect. Sergeant Cessna shared that he would follow up with an exact date when the system is complete.

Orland Resident Jose Lopez introduced himself to the Commission and hopes to be able to join the Public Works & Safety Commission. Mr. Lopez believes he has a lot to contribute to the Commission and Community. Chairperson Paschall and Vice Chairman Rossman thanked him.

5. Consent Calendar

A. Approval of February 8, 2022 minutes

Commissioner Denton motioned, seconded by Vice Chairperson Rossman to approve the Consent Calendar as presented, motion carried 3-0-1 by the following voice vote. Ayes: Paschall, Denton and Rossman; Noes: None; Abstain: None; Absent: Cavagnolo.

6. Public Works

PUBLIC WORKS & SAFETY COMMISSION MINUTES

December 13, 2022

Page 2

A. Sewer Ponds Discussion

Chairperson Paschall voiced his concern about updates that need to be made to the sewer pond. Chairperson Paschall stated that the sewer ponds sediment and overgrowth of weeds are a major issue that needs to be taken care. Chairperson Paschall asked City Staff for help finding the funds to take care of this issue and reminded the Commission that they are only an advisory Commission. Chairperson Paschall stated he would like the City Engineer to be present at the next discussion about the sewer ponds.

Vice Chairperson Rossman and Commissioner Denton both agreed with Chairperson Paschall that this is concern with the sewer ponds needs to be addressed soon.

City Engineer, Paul Rabo agreed that the sewer ponds are in need of updating. Mr. Rabo stated that with ongoing growth of the community, we should be preparing the sewer ponds for the future. Mr. Rabo suggested a few options to update the Sewer Ponds. Mr. Rabo stated that he has been working with Public Works Director Ed Vonasek to come up with a work plan and schedule for sewer pond updates.

Commissioner Denton suggested that the City should find out a more efficient way of upgrading the filtration plant.

Councilmember Bruce Roundy agreed with the Commission about the importance of the sewer ponds getting the necessary updates for future community growth.

Chairperson Paschall called up Orland residents Mr. & Mrs. Jackson. Mrs. Jackson expressed her concerns with the sewer ponds, mainly the excess of weeds growing and the odor that comes from the ponds. Chairperson Paschall thanked the Jackson's for voicing their concerns on the current Sewer Pond situation. Chairperson Paschall assured them that the Wastewater Operator is working on the current overgrowth weed issue.

B. Public Works Department Updates

Director of Public Works, Ed Vonasek updated the Commission that Public Works Department has most of their equipment purchased for the year. Director Vonasek informed the Commission that the City is getting ready to auction off the older equipment, which will be posted online. Director Vonasek shared that the Department of Water Resources (DWR) Project has been taking up most of the Department's time, with installation of new water mains. Director Vonasek shared that the Public Works Department has filled 4 new positions and stated it will take time to get new employees trained.

Chairperson Paschall asked when the City will we get the new well. Mr. Rabo responded that the Walker St. well project is currently going through the bid process and the City will hopefully have more information ready for next week's Council meeting.

PUBLIC WORKS & SAFETY COMMISSION MINUTES

December 13, 2022

Page 3

C. Groundwater Well Level Update

Mr. Vonasek stated that the City wells are down but steady. He is hopeful that water table will come up with the snowpack.

7. Public Safety

A. Fire Department Update

Fire Chief Chaney shared that the Orland Volunteer Fire Department's (OVFD) biggest update is the that the new City engine should be in Orland by the end of this week. Chief Chaney told the commission they are finishing up the environmental section on the Cal Fire Mitigation Grant (Dozer grant). Chief Chaney stated that the City has received the first check to purchase the truck and trailer to haul the Dozer. Chief Chaney shared that the goal is to have the equipment purchased before fire season starts this coming year.

Chairperson Paschall asked if they have a permit to go into the creek. Chief Chaney responded they will never go into creek unless there is a fire.

Chief Chaney informed the Commission that the volunteers are currently working on taking the Forest Service Engine (type 3 Engine) apart, to be painted.

B. Police Department Update

Police Chief Vlach announced that the Public Works department has been helping with the remodel of Police Department's Evidence Room. The inside is complete, and staff is currently working on the IT wiring and installation of Phase 1 of surveillance and key card entry system for City Hall, Police Department, and City Yard.

Chief Vlach stated that Orland PD are scheduled for 2 new replacement patrol vehicles for this budget cycle but due to inventory shortages the City is waiting for inventory to arrive.

Chief Vlach updated the Commission that the grant for Glenn County Office of Education (GCOE) School Resource Officer (SRO) has been a huge success. Chief Vlach stated the Orland Police Department currently has multiple positions open and Chief expressed the difficulty his department is having in finding qualified applicants to fill the vacant positions as well as the applicants making it through the background process.

Chief Vlach updated the Commission that the recommendations that the Public Works and Safety Commission sent to Council for new weight limits for trucks in town were taken to City Council and they have been passed.

Chief Vlach shared that the radio project is still being worked on and making head way.

Chief Vlach recommended that the Commission keep an eye on upcoming City Council agendas, all the City Department heads will be soon giving their annual presentations.

PUBLIC WORKS & SAFETY COMMISSION MINUTES

December 13, 2022

Page 4

8. Commissioner Projects

A. Discussion

Commission Cavagnolo shared that he is working on recharge program and making headway.

9. General

A. Schedule of Next Meeting

The next regularly scheduled Commission meeting will take place at Carnegie Center at 4 pm, February 14, 2023

10. Commissioner Communications

None

11. ADJOURNMENT – 5:06 PM

Respectfully submitted,

Meagan Mondragon, Secretary

James Paschall Sr., Chair

PUBLIC WORKS AND SAFETY COMMISSION AGENDA ITEM

Item No.: 7. A.
Meeting Date: February 14, 2023
From: Paul W. Rabo, City Engineer
Subject: Public Works and Safety Commission discussion of City of Orland
Wastewater Treatment Plant conceptual improvements

Background:

The City of Orland owns, operates and maintains a sanitary sewer system including 30 miles of pipelines, 400 sanitary sewer manholes, five lift stations and a wastewater treatment plant. The treatment plant includes a headworks, two primary ponds (1 and 2), two secondary ponds (3 and 4), and a percolation field where treated wastewater is discharged.

In 1958, the domestic wastewater ponds were designed and constructed to accommodate an average inflow of 2.13 MGD and a peak inflow of 6.08 MGD. The design inflow volume was based on a projected population of 8,200 for the year 1988. In 2004, the City of Orland updated their domestic wastewater average and peak inflow calculations based on the current population and the inflow data measured at the headworks. The average inflow was 0.72 MGD with a peak inflow of 1.24 MGD and a population of approximately 8,200. The current average inflow is 0.62 MGD with an average peak inflow of 0.89 MGD.

The domestic wastewater enters the wastewater treatment facility at the headworks. The original headworks consisted of an open concrete channel with Parshall flume and bar screen. Effluent flows out of the headworks into the 24” concrete distribution piping that routes the flow to Ponds 1 and 2, where the solids are able to settle out. The wastewater then flows into Ponds 3 and 4 where additional settling occurs. The domestic effluent is transferred from Ponds 3 and 4 to the unlined disposal fields where the effluent percolates into the ground or evaporates. The wastewater can be cycled through the fields to allow for disking or the removal of any built-up material.

In 2015 a grinder was installed to replace the original bar screen. The grinder is designed to chop and emulsify grease and organic solids into ¼” maximum particle size. Larger particles are captured in the ¼” screening plate and delivered into a dumpster by an automated auger. The original bar screen was not capable of trapping enough of the non-digestible solids that were deposited into the sewer system.

The wastewater ponds have seen a drastic increase in the accumulated sludge content over the last 10 years. Attempts were made to reduce the sludge buildup by means of bio-remediation. Bio-remediation efforts contributed to a large reduction in the sludge levels for a period of approximately three years between 2004 and 2007. Afterwards, the sludge content began accumulating rapidly and contributed to the inability to accurately manage effluent levels in the ponds. Additionally, the valves within the cross-control structure located in the levee at the center of all four ponds, had become partially inoperable due to deterioration. The inability to accurately manage pond levels contributed to surcharging of the primary pipe distribution system and the headworks. Surcharging of the distribution piping caused an increase in solids settling within the distribution piping and near the pipe outlets into Ponds 1 and 2. Deposits of solids near the outlet piping into Pond 1 caused shallow effluent conditions, which promoted the growth of vegetation near the pond pipe inlet. The growth of vegetation exacerbated the solids depositing and sludge development. The shallow effluent conditions caused extreme odor conditions, which was combatted by increasing the operational pond depth in order to keep liquid effluent above the level of the rising sludge.

In order to eliminate the accumulated sludge from Ponds 1 and 2, the City began researching methods

and associated costs to perform removal or treatment of the sludge. Contractor pricing estimates for dredging the ponds varied between \$700,000 and \$900,000, and estimations of reoccurrence was approximately every 5 years based on the average daily flows. The installation and operation of the Blue Frog treatment system was chosen in lieu of dredging because the cost of the Blue Frog units and necessary site improvements was estimated at \$900,000. The primary objectives of the Blue Frog treatment system were the elimination of sludge in the ponds and a reduction of the foul odors as a result of the sludge and effluent levels.

Analysis:

The operational depth of Ponds 1 and 2 has become a controllable component of the treatment. The 1958 plans provided a 2.5-foot freeboard with an operational pond depth of 3.5 feet. It is estimated that 0.5-feet of pond depth has been lost due to the accumulation of indigestible solids. These solids are attributed to 60 years of poor performance by the mechanical bar screen at the headworks. The Blue Frog system requires a float depth of 4-feet minimum. As a result of the engineered float depth and solids accumulation, the cross-control structures for Ponds 1 and 2 were designed to maintain an operational depth of 4.5-feet, providing a 1.5-foot freeboard for Ponds 1 and 2.

After several months of operation, Treatment in Ponds 1 and 2 had a noticeable effect on the accumulated sludge islands in the northwest corners. Within the first year of treatment, the pond clarity and odor had greatly improved and sludge levels were no longer visible from the surface. The original Blue Frog Treatment System design was targeting a three-year duration for full remediation of the sludge. In February 2018, the sludge volume had been reduced by 24%.

With continued sludge mapping and evaluation of operational pond depths, the City is hoping to achieve a reduced solids content in the ponds. A reduction of solids and sludge will increase the current float depth of the Blue Frog system and allow the operator to reduce the current overall pond depth in Ponds 1 and 2. The City is working towards an operational free board of 2-feet. The free float depth of the Blue Frog system and the original pond design depth places a minimum operational depth constraint on the ponds that cannot be changed without modifying the depth of Ponds 1 and 2. Conceptual modifications to the treatment plant include:

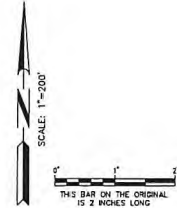
1. Installation of flowmeters to measure inflow and outflow from the plant.
2. Converting a portion of the existing disposal area into three settling ponds.
3. Convert existing Ponds 1 and 2 into primary and secondary settling ponds.
4. Convert existing Ponds 3 and 4 into three settling ponds.

Options 2 and 3 would require the temporary closure of Ponds 1 through 4 while work was performed to drain and dry out the ponds and then lower the pond depths approximately six to eight feet. The temporary closures would occur in phases so not to disrupt the daily operation of the treatment plant. Other proposed improvements to the treatment plant include:

5. Installation of a water main and fire hydrants.
6. Installation of fences, trees and landscaping.
7. Upgrades to the headworks and influent grinder.

Continued difficulties with reliable flow measurement equipment has prompted a need for a better measuring device that is not affected by the open channel flow constraints. An electromagnetic flow meter installed in the pipe upstream of the headworks is the proposed solution at this time. Installing a measuring device on the main effluent delivery pipe will require plugging the line at an upstream manhole and performing 24-hour bypass pumping while the measuring device is installed.

For planning purposes, the estimated costs for the phased improvements described above and shown on Attachment A is \$10 to \$15 million.



LEGEND	
1	INSTALL INFLOW AND OUTFLOW FLOWMETERS
2	CONVERT EXISTING DISPOSAL AREA TO THREE SETTLING PONDS
3A 4A	CONVERT POND TO PRIMARY AND SECONDARY SETTLING PONDS
3B 4B	CONVERT POND TO THREE SETTLING PONDS
5	INSTALL WATER MAIN AND FIRE HYDRANTS
6	INSTALL FENCES AND TREES/LANDSCAPING
7	UPGRADE HEADWORKS AND EFFLUENT GRINDER

CONCEPTUAL WORK PLAN
FOR THE
CITY OF ORLAND
WASTEWATER TREATMENT PLANT


FEBRUARY, 2023 22001 1 OF 1

Orland Municipal Well Levels

Feet from the surface

	2013		2014		2015					2017			2018			2019			2020			2021		2022	2023			
*n	Depth	Mar	Oct	Mar	Oct	Feb	Mar	Oct	Feb	Mar	Oct	Feb	Mar	Oct	Feb	Mar	Oct	Feb	Mar	Oct	Feb	Mar	Oct	Feb	Mar	Oct Week 4	Jan Week 4	Feb Week 1
L	150		26	28	43	27'	33	43	28	26	38	21	18	32		NDC	32	21	18	28	22	29	40	37	37	59	36	35
L			31	35	54	33' 2"	46	50	41	33	50	29	29	44		28	45	32	24	37	29	31	48	42	44	N/R	51	40
C	176	27	28	30	46	28'	32	40	31	29	40	24	24	34	32	32	38	off	off	32	28	28	39	42	40	59	38	37
C		34	32	37	52	34'	38	47	34	35	44	31	31	42		40	46	off	off	40	35	34	44	49	47	N/R	45	40
V	160	27	28	30	43	29'	30	39	33	28	38	23	23	35	31	31	35	22	21	29	25	27	39	43	39	55	39	37
V		42	42	46	54	41'	43	50	42	38	49	36	36	45	42	41	46	33	31	40	36	31	48	51	42	62	46	45
R	410	79	108	95	89	72'	65	103	71	94	90	75	69	111	75	81	91	80	94	113	79	87	131	88	112	138	96	94
R		103	126	118	108	93' 7"	88	120	94'	116	101	100'	94	137	109	NDC	113	86	101	137	92	97	139	94	121	N/R	114	109
S	360	70	115	96	88	71'	65	100	70	80	89	72	69	100	75	81	70	83	87	97	83	89	98	89	115	141	95	94
S		96	124	126	120	103'	95	123	92	110	120	98	96	124	113	113	95	91	98	117	103	95	105	97	122	154	129	102
E	400													150	94	127	117	91	98	128	118	134	120	84	116	138	124	113
E														135		141	126	109	112	145	139	188	138	121	128	151	163	129
A	170				60	35' 8"		70	42	38	54	29	25	42	39	37	50	32	24	38	37	35	54	48	47	80	51	51
A					78	53' 7"		88	47	57	65	41	37	53	50	54	61	43	34	48	47	48	63	57	61	88	64	65