



City of Woodland

300 First Street
Woodland, CA 95695

Meeting Agenda City Council

Tuesday, February 18, 2014

6:00 PM

Council Chambers

CITY COUNCIL CLOSED SESSION AGENDA FEBRUARY 18, 2014 5:00 P.M.

- A. CALL TO ORDER
- B. CLOSED SESSION
 - B.1 CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION
Significant exposure to litigation pursuant Government Code subsection 54956.9(d)
Number of potential cases: 1
 - B.2 CONFERENCE WITH LABOR NEGOTIATORS, Pursuant to Government Code Section 54957.6
Agency Designated Representatives: Paul Navazio, Sheila McShane, Kimberly McKinney and Dania Torres Wong
Employee Organization(s): Mid-Management

JOINT REGULAR CITY COUNCIL/WOODLAND FINANCE AUTHORITY/SUCCESSOR AGENCY FEBRUARY 18, 2013 6:00 P.M.

- A. CALL TO ORDER
- B. ROLL CALL
- C. PLEDGE OF ALLEGIANCE
- D. COMMUNICATIONS-PUBLIC COMMENT

This is an opportunity for the public to speak to the Council on any item other than those listed for public hearing on this agenda. Speakers are requested to use the microphone in front of the Council and to begin by stating their name, whether they reside in Woodland and the name of the organization they represent if any. The Mayor may impose a time limit on any speaker depending on the number of people wanting to speak and time available for the rest of the agenda. In the event comments are related

to an item scheduled on the agenda, speakers may be required to wait to make their comments until that item is considered.

E. COMMUNICATIONS-COUNCIL/STAFF STATEMENTS AND REQUESTS

This is an opportunity for the Council Members and Staff to make comments and announcements, to express concerns, or to request Council's consideration of any items a Council Member would like to have discussed at a future Council meeting.

[14-062](#)

SUBJECT: Long Range Calendar

Recommendation for Action: Staff recommends that the City Council receive the Long Range Calendar for informational purposes only.

Attachments: [Council Long Range Calendar](#)

F. COMMITTEE REPORTS

1. [14-046](#)

SUBJECT: Parks & Recreation Commission Meeting Minutes for November 25, 2013

Recommendation for Action: Staff recommends that the City Council receive the November 25, 2013 Parks & Recreation Commission Minutes that were approved on January 27, 2014.

Attachments: [112513 PRC minutes](#)

G. PRESENTATIONS

2. [14-061](#)

SUBJECT: Proclamation declaring February 23, 2014 as Rotary Founder's Day and February 27, 2014 as Woodland Rotary Service Day

Recommendation for Action: Staff recommends that the City Council declare February 23, 2014 as Rotary Founder's Day and February 27, 2014 as Woodland Rotary Service Day.

Attachments: [Rotary Proclamation](#)

3. [14-060](#)

SUBJECT: Commission on Aging Annual Update

Recommendation for Action: Staff recommends that the City Council receive the Commission on Aging Annual Update including a summary of 2013 accomplishments and proposed accomplishments for 2014.

Attachments: [COA 2013 \[Compatibility Mode\].pdf](#)

H. CONSENT CALENDAR

4. [14-057](#)

SUBJECT: Public Safety Department (Police and Fire) Quarterly Status report for the period of October 2013 through December 2013

Recommendation for Action: Staff recommends that the City Council

accept the Public Safety Department Quarterly Status Report for October 2013 through December 2013.

Attachments: [Qtrly Report - Oct-Dec 2013.docx](#)

5. [14-065](#) SUBJECT: Approve Amendments to Council Committee Responsibilities

Recommendation for Action: Staff recommends that the City Council approve amendments to the Council Committee Assignments for the Yolo Solano Air Quality Management District.

Attachments: [Council Committee matrix 2012-2014](#)

[Council Committee matrix 2012-2014 AMENDED](#)

6. [14-011](#) SUBJECT: Final Acceptance and Notice of Completion for Parks Irrigation Rehabilitation Project, Phase 4, Freeman Park, CIP 10-01 and Approve Reallocation of Project Funding from the Parks Irrigation Project (CIP #10-01) to the Brooks Swim Center Project (CIP #12-18).

Recommendation for Action: Staff recommends City Council 1) accept the Parks Irrigation Rehabilitation Project, Phase 4, Freeman Park, CIP 10-01 as complete and authorize the City Clerk to file a Notice of Completion and 2) approve reallocation of \$100,000 of Measure E funds from the Parks Irrigation Project (CIP #10-01) to the Brooks Swim Center Project (CIP #12-18).

7. [13-323](#) SUBJECT: Police Department Chiller Replacement

Recommendation for Action: Staff recommends that the City Council: 1) reject the Cooper Oates Air Conditioning bid as non-responsive due to insufficient information on financing and project scheduling and; 2) authorize the City Manager to enter into a contract with the lowest responsive bidder, American Chiller Services, Inc. for the replacement of the Police Department's water-cooled chiller with a new air-cooled chiller at a cost of \$159,904; and 3) authorize procurement via a 5-year vendor-provided payment plan, at an annual interest rate of 3.11%.

Attachments: [PD Chiller Construction Contract 02072014 \(post-attorney review\)](#)

[WOODLAND PD Chiller RESO](#)

8. [14-064](#) SUBJECT: Modifications to City Manager's Employment Agreement

Recommendation for Action: Staff recommends that the City Council approve the modifications to the City Manager's Employment Agreement as indicated.

Attachments: [CM Employment Agreement](#)

9. [14-066](#) SUBJECT: Consideration of Ballot Arguments

Recommendation for Action: Staff recommends that the City Council authorize the Council subcommittee, comprised of Vice Mayor Stallard and Council Member Hilliard, to draft ballot argument language for the quarter cent sales tax measure and to further authorize all Council Members to sign the ballot arguments that need to be filed with the City Clerk no later than 5:00PM on March 7, 2014.

I. REPORTS OF THE CITY MANAGER

10. [14-049](#) SUBJECT: Approval of Non-Binding Notice of Application Approval (NOAA) for State Revolving Loan (SRF) to Fund the Construction of the Woodland-Davis Clean Water Agency (WDCWA) Project Facilities

Recommendation for Action: Staff recommends that the City Council:

- 1) authorize the City Manager to sign the California Department of Public Health's (CDPH) Notice of Application Approval (NOAA),
- 2) authorize the WDCWA to sign their NOAA for Woodland's share of the regional project, and
- 3) continue the process to seek low interest SRF funding from CDPH and the State Water Resource Control Board (SWRCB) to fund the Davis-Woodland Water Supply Project (DWWSP).

Attachments: [Safe Drinking Water SRF NOAA for Project No. 5710006-009C](#)
[Safe Drinking Water SRF NOAA for Project No. 5710012-008C](#)

11. [14-029](#) SUBJECT: Authorize the Aeration Retrofit Project CIP #12-02 for bidding, and approve resolutions required for the application of State Revolving Fund financing of the Aeration Project, Water Pollution Control Facility Improvements, and Pipeline Rehabilitation throughout the City of Woodland.

Recommendation for Action: Staff recommends that the City Council approve the Aeration Project Retrofit, CIP #12-02 design and bid package and authorize for bid advertisement. In addition, staff recommends that the City Council approve the following seven resolutions in support of the Project and State Revolving Fund (SRF) financing requirements.

1. Resolution No. for approval of the Mitigated Negative Declaration (MND) for improvements at the Water Pollution Control Facility (WPCF) and sewer pipeline rehabilitation projects throughout the City of Woodland for the next five years,
2. Resolution No. for sole sourcing various components of the Aeration Project,
3. Resolution No. for sole sourcing WPCF screen replacement equipment at the headworks.
4. Resolution No. for specifying Tesco as the subcontractor for work associated with providing and installing PLCs, programming, systems integration, wiring terminations at PLCs, SCADA integration etc.

5. Resolution No. _____ for the City Manager to be (the "Authorized Representative") or designee to sign and file, for and on behalf of the City of Woodland, a Financial Assistance Application for a financing agreement from the State Water Resources Control Board for the planning, design, and construction of the City of Woodland 2014 WPCF Improvements and various sewer pipeline rehabilitation projects (the "Project"),

6. Resolution No. _____ for Reimbursement of the SRF Expenditures paid prior to the issuance of the Obligations or the approval by the State Water Board of the Project Funds,

7. Resolution No. _____ for the City of Woodland to dedicate and pledge Sewer Enterprise funds (Fund 220) to payment of any and all Clean Water State Revolving Fund Program financing for the improvements at the WPCF and sewer pipeline rehabilitation projects throughout the City of Woodland.

Attachments: [Draft Mitigated Negative Declaration and Initial Study](#)

[Comments Received on Draft MND](#)

[Mitigation Monitoring and Reporting Program](#)

[Resolution to Adopt the Mitigated Negative Declaration](#)

[Resolution for Sole Sourcing Various Components of the Aeration Project](#)

[Resolution for Sole Sourcing WPCF Screen Replacement Equipment](#)

[Resolution for Specifying Tesco as the Subcontractor](#)

[Resolution to Designate the City Manager to be the "Authorized Representative"](#)

[Resolution for Reimbursement of the State Revolving Fund \(SRF\) Expenditures](#)

[Resolution to Dedicate and Pledge Sewer Enterprise Funds to Payment](#)

12. [14-055](#) SUBJECT: FY2013/14 Mid-Year Budget Update

Recommendation for Action: Information purposes only; no action required.

Attachments: [FY2013-14 MidYear Budget Update Attachment REVISED](#)

13. [14-037](#) SUBJECT: Agreement to Expend Unspent Bond Proceeds

Recommendation for Action:

1. As Successor Agency to the Former Woodland Redevelopment (Successor Agency), adopt attached Successor Agency resolution and approve agreement between the City of Woodland (City) and the Successor Agency to expend unspent bond proceeds.
2. As City Council, adopt attached City Council resolution and approve agreement between the City and the Successor Agency to expend unspent bond proceeds.

Attachments: [SA RESOLUTION](#)
[City Council RESOLUTION](#)
[Agreement Regarding Bond Proceed Expenditures](#)
[Exhibit A](#)
[Exhibit A summary and certifications](#)

J. SUCCESSOR AGENCY REGULAR REPORTS

SUBJECT: Agreement to Expend Unspent Bond Proceeds (concurrent with item no. 12 above)

14. [14-067](#) SUBJECT: Consideration of Resolution No. ____ approving a proposed administrative budget for the period of July 1, 2014 through December 31, 2014, pursuant to Health and Safety Code Section 34177 (j)

Recommendation for Action:

Staff recommends that the Successor Agency adopt Resolution No. ____ approving and adopting the proposed Administrative Budget pursuant to Health and Safety Code Section 34177 (j).

Attachments: [SA Resolution Admin Budget](#)
[Administrative Budget](#)

15. [14-038](#) SUBJECT: Consideration of approval of Recognized Obligation Payment Schedule for the period of July 2014 through December 2014, pursuant to Health and Safety Code Section 34177

Recommendation for Action:

It is recommended that the Successor Agency adopt Resolution No. ____ approving and adopting the Recognized Obligation Payment Schedule ("ROPS") covering the period of July 1, 2014 through December 31, 2014.

Attachments: [RESOLUTION](#)
[Woodland_ROPS_14-15A](#)

K. ADJOURN

I declare under penalty of perjury that the foregoing Agenda for the Joint Regular City Council/Woodland Finance Authority/Successor Agency Regular Meeting of the City of Woodland scheduled for February 18, 2014 was posted on February 14, 2014 in the outside display case at City Hall, 300 First Street, Woodland, CA, and was available to the public during normal business hours.

Ana B. Gonzalez, City Clerk

Upon request, agendas and documents in the agenda packet will be made available in appropriate alternative formats to persons with a disability, as required by law. Any such request must be made in writing to the Office of the City Clerk of the City of Woodland. Requests will be valid for the calendar year in which the request is received, and must be renewed prior to January 1st. Persons needing disability-related modifications or accommodations in order to participate in public meetings, including persons requiring auxiliary aids or services, may request such modifications or accommodations by calling the Office of the City Clerk (530-661-5806) at least 48 hours prior to the meeting.

Legislation Details (With Text)

File #: 14-062 **Version:** 1 **Name:**
Type: Report of the City Manager **Status:** Agenda Ready
File created: 2/13/2014 **In control:** City Council
On agenda: 2/18/2014 **Final action:**
Title: SUBJECT: Long Range Calendar

Recommendation for Action: Staff recommends that the City Council receive the Long Range Calendar for informational purposes only.

Sponsors:

Indexes:

Code sections:

Attachments: [Council Long Range Calendar](#)

Date	Ver.	Action By	Action	Result
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TO: THE HONORABLE MAYOR AND CITY COUNCIL

DATE: February 18, 2014

SUBJECT: Long Range Calendar

Recommendation for Action: Staff recommends that the City Council receive the Long Range Calendar for informational purposes only.

Staff Contact

Ana Gonzalez, City Clerk - (530) 661-5806, ana.gonzalez@cityofwoodland.org

Background

This calendar is being provided for planning purposes only and is intended to keep the Council apprised of upcoming agenda items and better plan for upcoming Council items.

Prepared by: Ana Gonzalez, City Clerk



Paul Navazio, City Manager

Attachment

COUNCIL LONG RANGE CALENDAR

Items subject to removal and/or rescheduling

Tuesday, March 4, 2014

Reports due 2/18

Regular Meeting

Closed Session

Committee Reports

Commission on Aging Meeting Minutes

Minutes

City Council Minutes for February 4th and 18th

Public Hearing

IEOZ Zoning Amendment

Golden State Reclamation Appeal

Consent

Final Acceptance and NOC for Safe Routes to School, CIP 13-06

Final Acceptance and NOC for Water Meter Project Phase 3, CIP 12-09

Approve Plans and Specs; Authorize Bid Advertisement for Water Transmission Main East (CIP 11-14)
and the Community Center/Sports Park Frontage (CIP 11-15)

Authorize CM to Enter into Purchase and Sale Agreements for ROW Acquisitions, CIP 11-14 & CIP
12-05, Local Pipelines

Regular

Renewal of Letter of Credit for City's Water Utility

1st Reading of Water Conservation Ordinance

FUTURE AGENDA ITEMS FOR:

MARCH

Scrapmetal / Recycling Ordinance

FY 2014/15 Budget Workshop

Amend Home Occupation Ordinance to Comply with CA Homemade Food Act – Public Hearing

2nd Reading of Water Conservation Ordinance

APRIL

Preliminary CDBG Funding Recommendations

Council Direction on Preferred General Plan Land Use Scenario

Updated Master-Tax Sharing Agreement with Yolo County

Update on Climate Action Plan / GHG Reduction Targets

MAY

Contract award - Solar Projects (TerraVerde RFP)

Presentation – FY 2014/15 Proposed Budget

JUNE

Adoption of FY 2014/15 Budget

FUTURE AGENDA ITEMS – DATE TO BE DETERMINED:

Board and Commission Appointments – next step: schedule interviews with Council Committees

County food waste composting proposal

Tow Ordinance

Fire Alarm Ordinance

Salary Ordinance/Salary Schedule

FUTURE STUDY SESSIONS (TBD):

Lower Cache Creek Flood Control Feasibility Study

Update Economic Development Strategic Plan

Updated 2/13/14

Legislation Details (With Text)

File #: 14-046 Version: 1 Name:

Type: Minutes Status: Agenda Ready

File created: 2/5/2014 In control: City Council

On agenda: 2/18/2014 Final action:

Title: SUBJECT: Parks & Recreation Commission Meeting Minutes for November 25, 2013

Recommendation for Action: Staff recommends that the City Council receive the November 25, 2013 Parks & Recreation Commission Minutes that were approved on January 27, 2014.

Sponsors:

Indexes:

Code sections:

Attachments: [112513 PRC minutes](#)

Date	Ver.	Action By	Action	Result
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TO: THE HONORABLE MAYOR AND CITY COUNCIL

DATE: February 18, 2014

SUBJECT: Parks & Recreation Commission Meeting Minutes for November 25, 2013

Recommendation for Action: Staff recommends that the City Council receive the November 25, 2013 Parks & Recreation Commission Minutes that were approved on January 27, 2014.

Staff Contact

Kris Bain, Community Services Program Manager, 661-2002, krista.bain@cityofwoodland.org

Conclusion

Staff recommends that the City Council receive the November 25, 2013 Parks & Recreation Commission Minutes that were approved on January 27, 2014.

Prepared by: Kris Bain, Community Services Program Manager



Paul Navazio, City Manager

Attachment: November 25, 2013 P&R Commission meeting minutes

Parks & Recreation Commission Minutes

Monday, November 25, 2013

City Hall – 300 First Street – 2nd Floor Council Chambers

Open Session

The Parks & Recreation Commission meeting was called to order by Chair Jesse Salinas at 6:30 p.m. on Monday, November 25, 2013 at the Woodland City Hall Council Chambers.

Roll Call

Commission Members Present: Chair Jesse Salinas
 Vice Chair Enrique Fernandez
 Commissioner Ruben Morales Jr.
 Commissioner Nathan Stephens
 Commissioner Jon-Paul Valcarenghi
 Commissioner Carla White-Snyder

Commission Member Absent: Commissioner Joe Romero

Staff Present: Council Member Jim Hilliard
 City Manager Paul Navazio
 Community Services Director Christine Engel
 PW O & M Superintendent Rob Sanders
 CS Administrative Secretary Cathy Haynie
 PW Conservation Coordinator Marshall Echols
 CS Senior Planner Dan Sokolow

Pledge of Allegiance

Consent Calendar (Items)

Adopt the Minutes of the Commission Meeting of October 28, 2013

Action: Fernandez Moved/ Valcarenghi Seconded:

Motion carried by the following roll call vote:

Ayes: Salinas, Fernandez, Valcarenghi, White-Snyder, Stephens, Morales Jr.

Noes:

Other Business

City Solar Project-Marshall Echols

The City of Woodland contracted with TerraVerde Renewable Partners to pursue a comprehensive Energy Management Program (EMP) for City facilities. Five facilities including the Woodland Community & Senior Center are being evaluated for solar arrays. Arrays installed at the Community & Senior Center would include locations 1) rooftop and 2) parking lot. Installation of arrays in the parking lot would include the removal of approximately 75 trees. Staff recommends that the Parks & Recreation Commission support staff's efforts to follow through with developing the EMP solar array concepts with implementation of a corresponding tree replacement program.

Action: Fernandez Moved/ Morales Jr. Seconded:

Motion carried by the following roll call vote:

Ayes: Salinas, Fernandez, Valcarenghi, White-Snyder, Morales Jr.

Noes: Stephens

Housing Related Parks Grant Program-Dan Sokolow

Sokolow explained that the HRP Program grant funds for City Park are based on a number of factors. Staff is recommending that the Parks & Recreation Commission support staff's recommendation to submit a Housing Related Parks Program grant application for improvements to City Park specifically replacing the large playground structure and related improvements.

Action: Valcarenghi Moved/ White-Snyder Seconded:

Motion carried by the following roll call vote:

Ayes: Salinas, Fernandez, Valcarenghi, White-Snyder, Stephens, Morales Jr.

Noes:

Measure V Replacement Tax-Paul Navazio, Jim Hilliard

CM Navazio gave a brief update of the possibility of placing a measure on the ballot to replace Measure V ¼ cent sales tax that was approved in 2010. Budget was approved with the assumption that Measure V will go away. City has shed about \$9,000,000.00 and about 110 positions in the last several years. Proposition that is being contemplated at the Council level is to extend a ¼ cent sales that will add back programs and services that are deemed to be highest priority and the greatest positive impact that the City can supply such as programs for youth and teens, library and public safety related to at risk youth. To date Council is generally supportive of the measure, Council Member Hilliard, and Vice Mayor Stallard are the subcommittee assigned to work with staff on the measure. Council Member Hilliard stated that the extension would be for 6 years. CM Navazio explained that it is very important to include an accountability component into the measure that will allow reporting on the spending of the

measure to the community. Commissioner Salinas stated that the Commission was supportive of the measure.

Appoint Subcommittee to Develop Framework for Work Plan

Commissioners Morales Jr. and Fernandez were appointed to the subcommittee and will report at the January 27, 2014 commission meeting.

Appoint Reassessment Subcommittee to assess Commission Subcommittee definitions and make up

Commissioners Fernandez, Valcarengi and Salinas were appointed to this subcommittee.

Election of Officer

Commissioners discussed moving the terms of officers to the fiscal year to follow the City's year end dates.

Action Valcarengi Moved/ Morales, Jr. Seconded:

Motion carried by the following roll call vote:

Ayes: Salinas, Morales Jr., Fernandez, Valcarengi, White-Snyder, Stephens

Noes:

Reports of the Staff

Community Services Report

Engel reported on the Freeman Park grand reopening on November 21, 2013. Senior Center annual Thanksgiving Dinner was attended by 225 senior and is sponsored by SCI. Adult Basketball has 120 participants and Youth Basketball has 132. Charles Brooks Swim Center project is on track and should reopen in mid to late January 2014.

Action: Received

Parks Report

Sanders reported that the fence installation at the Sports Park has started.

Action: Received

Adjourn 7:36 p.m.

Action: Stephens Moved/ Fernandez Seconded:

Motion carried by the following roll call vote:

Ayes: Salinas, Fernandez, Morales Jr., Valcarengi, White-Snyder, Stephens

Noes:

Legislation Details (With Text)

File #: 14-061 Version: 2 Name:
Type: Consent Item(s) Status: Agenda Ready
File created: 2/12/2014 In control: City Council
On agenda: 2/18/2014 Final action:
Title: SUBJECT: Proclamation declaring February 23, 2014 as Rotary Founder's Day and February 27, 2014 as Woodland Rotary Service Day

Recommendation for Action: Staff recommends that the City Council declare February 23, 2014 as Rotary Founder's Day and February 27, 2014 as Woodland Rotary Service Day.

Sponsors:

Indexes:

Code sections:

Attachments: [Rotary Proclamation](#)

Date	Ver.	Action By	Action	Result
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TO: THE HONORABLE MAYOR AND CITY COUNCIL

DATE: February 18, 2014

SUBJECT: Proclamation declaring February 23, 2014 as Rotary Founder's Day and February 27, 2014 as Woodland Rotary Service Day

Recommendation for Action: Staff recommends that the City Council declare February 23, 2014 as Rotary Founder's Day and February 27, 2014 as Woodland Rotary Service Day.

Staff Contact

Ana Gonzalez, City Clerk - 530-661-5806, ana.gonzalez@cityofwoodland.org

Background

Council has received a request from Charlene Shaffer, Past President, Luna Vista Rotary Club to proclaim February 23, 2014 as Rotary Founder's Day and February 27, 2014 as Woodland Rotary Service Day. The month of February is celebrated by Rotarians throughout the world, as it commemorates the founding of Rotary International in 1905 in Chicago, Illinois. On February 27, 2014 the Rotary Clubs of Woodland will conduct a Chamber of Commerce Mixer at the Woodland Community Center celebrating 109 years of rotary service, as well as honoring the valued relationship with the local Chamber of Commerce

Prepared by: Ana Gonzalez, City Clerk

A handwritten signature in dark ink, appearing to read "Paul Navazio", with a long, sweeping horizontal stroke extending to the right.

Paul Navazio, City Manager

Attachment

CITY OF WOODLAND

PROCLAMATION

DECLARING

FEBRUARY 23, 2014 “ROTARY FOUNDER’S DAY”

AND

FEBRUARY 27, 2014 “WOODLAND ROTARY SERVICE DAY”

WHEREAS, Rotary International, founded on February 23, 1905, in Chicago, Illinois USA, is an international service organization whose stated purpose is to bring together business and professional leaders in order to provide humanitarian services, encourage high ethical standards in all vocations, and help build goodwill and peace in the world; and

WHEREAS, it is a secular organization open to all persons regardless of race, color, creed, religion, gender or political preference; and

WHEREAS, there are over 1.2 million Rotary club members comprised of professional and business leaders in over 34,282 clubs in 200 countries and geographic areas; and

WHEREAS, the Rotary motto “Service Above Self” inspires members to provide humanitarian service, encourage high ethical standards and promote good will and peace in the world; and

WHEREAS, Rotary supports programs that strengthen the capacity of communities to provide basic education and literacy to all; and

WHEREAS, Rotary Clubs of Woodland representing 186 Rotarians actively sponsoring service projects that address such critical issues as poverty, health, hunger, literacy, the environment, education and recreation in their local community and abroad.

NOW THEREFORE, the Woodland City Council does hereby proclaim February 23, 2014 as Rotary Founder’s Day and February 27, 2014 as Woodland Rotary Service Day and encourage all citizens to join in recognizing Rotary International for its 109 years of service in improving the human condition in local communities and around the world and recognize the Rotary Clubs of Woodland Noon, President Les Engelmann, Sunrise, President Eric Engstrom and Luna Vista, President, Nick Pohl for their commitment of resources, time and energy to local community service projects. We commend their service locally and globally.

Dated this 18th day of February, 2014

Marlin H. “Skip” Davies, Mayor

Tom Stallard, Vice-Mayor

William L. Marble, Council Member

Jim Hilliard, Council Member

Sean Denny, Council Member

Legislation Details (With Text)

File #:	14-060	Version:	1	Name:	
Type:	Presentation	Status:	Agenda Ready		
File created:	2/12/2014	In control:	City Council		
On agenda:	2/18/2014	Final action:			
Title:	SUBJECT: Commission on Aging Annual Update				
Recommendation for Action: Staff recommends that the City Council receive the Commission on Aging Annual Update including a summary of 2013 accomplishments and proposed accomplishments for 2014.					
Sponsors:					
Indexes:					
Code sections:					
Attachments:	COA 2013 [Compatibility Model].pdf				

Date	Ver.	Action By	Action	Result
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TO: THE HONORABLE MAYOR AND CITY COUNCIL

DATE: February 18, 2014

SUBJECT: Commission on Aging Annual Update

Recommendation for Action: Staff recommends that the City Council receive the Commission on Aging Annual Update including a summary of 2013 accomplishments and proposed accomplishments for 2014.

Staff Contact

Christine Engel, Community Services Director - (530)661-2008, christine.engel@cityofwoodland.org

Background

The Commission on Aging (COA) was established in 1975 to act as an advisory board to the City Council. The Commission is available to advise and make recommendations to Council on matters pertaining to seniors in Woodland. Meetings are held the second Thursday of each month at 3:30 p.m. at the Woodland Community & Senior Center. The current COA members are: Chairperson Benjamin Garman, Vice-Chairperson Don Campbell, Karen Wright, Regan Overholt, and Lucinda Talkington.

Conclusion

Staff recommends that the City Council receive the Commission on Aging Annual Update including a summary of 2013 accomplishments and proposed accomplishments for 2014.

Prepared by: Christine Engel, Community Services Director

A handwritten signature in dark ink, appearing to read "Paul Navazio", with a long, sweeping horizontal line extending to the right.

Paul Navazio, City Manager

Attachment: Commission on Aging 2013 Accomplishments and 2014 Proposed Accomplishments

Woodland Commission on Aging

*2013 Accomplishments and
Planned Projects for 2014*

COA Members

- Don Campbell
- Benjamin Garman
- Regan Overholt
- Lucinda Talkington
- Karen Wright

COA Duties and Responsibilities

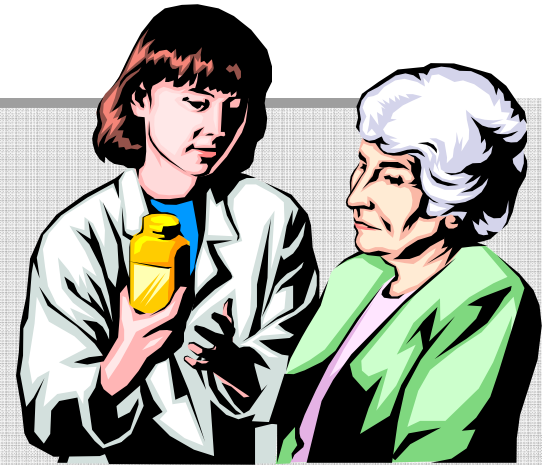


The very popular Senior Aerobics class

- Bring focus to issues affecting seniors
- Advocate for support and resources
- Promote healthy aging and quality community services

Primary Senior Issues

- Health Issues
- Retirement Income and Financial Stability
- Affordable Housing
- Community Issues
- Advocacy (ADA)
- Transportation



Annual Work Plan Items

- Woodland Apartment List
- Positive Aging and Promotion Educational Presentations
- Senior Resource Fair
- Community & Senior Center Advocacy
- Intergenerational Projects –
“Teens Helping Seniors”, group social activities
(planned)

**In the current FY, the
*Commission on Aging***

**continues to advocate for
Community & Senior Center
items which were identified
as Senior Concerns & Issues.**

**Some of these
accomplishments included:**

- 2013 Apartment Resource List – used by community agencies and organizations as well as local citizens
- Better accessibility improvements for center users with disabilities
- Community education regarding senior resources with annual Senior Fair



Card games in our lovely game room are always well attended

“Teens Helping Seniors” Program

Funding by Senior Center Inc, this popular program served 37 seniors on 47 jobs for **200** hours by the teens. Outstanding feedback from seniors, participants and staff. The program ran from June 24 to August 14, 2013.

Celebrating a Successful Program!



Teen volunteers commemorate the end of the program with a trip to the Santa Cruz Beach Boardwalk



Additional Commissioner Contributions



Senior Arts and Crafts Show 2013

- Participate in and facilitate senior programs including support groups, educational activities and special events
- Support senior programs and special events

Woodland COA

The COA advocates
to City Council to
ensure the unique
needs and desires of
the senior community
are heard and
addressed

Woodland seniors
are intelligent, active,
dynamic, involved
and **vote regularly!**



Senior Art Group

Our Annual Signature Event

SENIOR RESOURCE FAIR & NATIONAL SENIOR FITNESS DAY



Presented by the Woodland Commission on Aging and the YMCA of Superior California

RESOURCES AVAILABLE FOR SENIORS INCLUDING
Health Care • Volunteerism • Legal Assistance • Health &
Fitness • Support Groups • In-Home Support • Repairs &
Chores • And more

Wednesday, May 28th
10:00 a.m. – 1:00 p.m.

**Woodland Community
& Senior Center**
2001 East Street, Woodland 95776



**We invite *all* City Council
members**

**to attend one of our monthly
meetings and participate in the
many special senior activities
coordinated in our city**

**Come see what ‘active aging’
is all about!**

Legislation Details (With Text)

File #: 14-057 Version: 1 Name:
Type: Consent Item(s) Status: Agenda Ready
File created: 2/11/2014 In control: City Council
On agenda: 2/18/2014 Final action:
Title: SUBJECT: Public Safety Department (Police and Fire) Quarterly Status report for the period of October 2013 through December 2013

Recommendation for Action: Staff recommends that the City Council accept the Public Safety Department Quarterly Status Report for October 2013 through December 2013.

Sponsors:

Indexes:

Code sections:

Attachments: [Qtrly Report - Oct-Dec 2013.pdf](#)

Date	Ver.	Action By	Action	Result
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TO: THE HONORABLE MAYOR AND CITY COUNCIL

DATE: February 18, 2014

SUBJECT: Public Safety Department (Police and Fire) Quarterly Status report for the period of October 2013 through December 2013

Recommendation for Action : Staff recommends that the City Council accept the Public Safety Department Quarterly Status Report for October 2013 through December 2013.

Staff Contact

Dan Bellini, Chief - 661-7865, dan.bellini@cityofwoodland.org

Background

The Public Safety Department Quarterly Status Report includes a summary of all activity within the Department (Police and Fire). In lieu of providing comprehensive monthly status reports to the City Council and department heads via e-mail communication, the City Council will now be receiving Status Reports on a quarterly basis via agenda packet.

Conclusion

Prepared by: Bonnie Sylva, Administrative Secretary

Reviewed by: Dan Bellini, Chief, Public Safety Dept.

A handwritten signature in dark ink, appearing to read "Paul Navazio", with a long, sweeping horizontal stroke extending to the right.

Paul Navazio, City Manager

Attachment: Public Safety Quarterly Report (Oct.-Dec. 2013)



PUBLIC SAFETY DEPARTMENT



Quarterly Report

DATE: February 10, 2014

SUBJECT: QUARTERLY REPORT FOR OCTOBER-DECEMBER, 2013

POLICE:

PATROL AND INVESTIGATIONS SIGNIFICANT CASES:

OCTOBER:

- October 3: Walnut Street and Clover Street for a report of a fight. Officers attempted to detain a fleeing subject who matched the description of the suspect. Officers located a victim of a stabbing nearby. The suspect tried to carjack the victim, a fight ensued, and the victim was stabbed multiple times with a knife. Patrol officers located the suspect at a residence, and Detective Ford wrote a search warrant for the residence. The suspect was arrested.
- October 11: BOLO from Elk Grove PD regarding a wanted subject who was reportedly armed with a .45 cal. handgun. A \$1,000,000 arrest warrant was issued. On October 12, the suspect was spotted driving a white Chevy pickup on East Street at Gibson Road. Officers and sheriff's deputies conducted a felony car stop, and the suspect was arrested without incident.
- October 16: report of shots fired at a residence on Colfax Drive. Officers were told three shots were fired, and they found a bullet hole in the house. A vehicle, in the same area, also had damage from a bullet. At the time of the shooting, five people, ranging in age from 5 to 42, were in the home. No one was injured and no one was in the vehicle that was shot. Two of the residents of the house that was shot are validated gang members. The case was referred to GTF.
- October 18: Muir Street - report of a stabbing. Officers located a victim, a 20-year-old Sacramento resident, who had a single non-life threatening stab wound. He was treated at WMH. Officers located and arrested the suspect, a 24-year-old Woodland resident. Detectives and the CSI team were called in to obtain a search warrant and process the crime scene.
- October 23: Woodland Avenue and North West Street for a fight. Officers did not locate anyone but received a call later from WMH about a stabbing victim in the ER. Officers obtained statements from the victim and witnesses and were able to put together potential suspect information which was followed up by the GTF.
- October 29: East Oak Avenue for report of a disturbance between an intoxicated adult male and his parents. The first officer on scene was confronted by the subject in the driveway. The officer attempted to detain him for questioning, and the subject began throwing punches at the officer. He started fighting with the officer, but the officer was able to subdue him. The officer and the subject sustained non-life-threatening injuries. After the subject was handcuffed, a knife was found concealed inside his sweatshirt.
- October 29: officers investigated a string of three strong-armed robberies in the area of Harris Park and Pine Street. One victim reported six juveniles approached and surrounded him, physically assaulted him, and robbed him of his cell phone. Later, a group of juveniles approached three other victims in the same manner and stole cell phones from them. Two days later, the investigating officer contacted six juveniles who matched the descriptions of the

suspects. After an in-field show-up to the victims, all six juveniles were identified as the ones responsible for the robberies. All were arrested on charges of robbery and participating in criminal street gang activities.

- October 31: call from WMH for a gunshot victim in the ER. The victim, a 24-year-old Woodland man, sustained a gunshot wound causing a non-life-threatening injury. The man said he was walking in City Park at 8:45 p.m. when unknown suspect(s) fired three shots and fled in an unknown vehicle. No crime scene or witnesses were located, and there were no reports of shots fired around City Park.
- Detective Towle investigated an embezzlement case involving a City of Woodland employee. The employee was stealing money from an employee association. He was arrested and booked. No city funds were embezzled.
- Detective Ford was assigned a shaken baby investigation. The baby survived the ordeal and was taken into protective care by CPS.

NOVEMBER:

- November 1: Buckeye Street for a vehicle driving recklessly. An officer located the vehicle at Cottonwood Street and West Cross Street. The officer's patrol vehicle had the License Plate Reader (LPR) installed in it, and while the officer was pursuing the vehicle, the LPR system identified the license plate number as belonging to a stolen vehicle. As the officer approached the vehicle, the driver accelerated and drove away. The officer pursued as the vehicle travelled throughout the southwest area of Woodland and reached speeds of more than 70 MPH. Other officers joined the pursuit, and it lasted approximately nine minutes. The driver, a 14-year-old female, stopped the vehicle in the parking lot of an apartment complex on Cottonwood Street and was taken into custody without incident. She was booked into juvenile hall for charges of recklessly evading a police officer and vehicle theft.
- November 2: East Oak Avenue for report of a stabbing. Officers located an adult male with a stab wound to his chest lying on the grass in front of a residence. The victim stated he did not know who stabbed him or the vicinity in which the stabbing occurred. Witnesses stated the victim was possibly stabbed by unknown assailants on East Oak Avenue near Thomas Street. The victim survived. He is a known Norteno gang member, so the case was forwarded to GTF and the Investigations Division.
- November 13: Fifth Street for report of shots fired. The victim stated he heard a shot a few hours earlier as he stood near his vehicle in his driveway. He was not struck and did not report it because he knew who did it and would "handle it" on his own. Hours later, the victim was inside his residence when he heard another shot. The victim went outside and saw a bullet hole in his windshield. The victim believed extended family members of a rival gang were responsible for both shots. The victim is a known Norteno gang member, so the case was forwarded to GTF.
- November 18: officer viewed arson in progress at Heritage Plaza. A city trash can was set on fire, and two subjects were on scene. Officers detained them, and they were identified as local transients. The fire department responded to extinguish the flames. As one of the suspects was being searched, he broke away from and resisted officers. In gaining control of him, three officers were assaulted, causing minor injury to all three. He was arrested on three counts of felony battery on a police officer, arson, possession of drug paraphernalia, and public intoxication. The second suspect was arrested for arson and being under the influence of a controlled substance.
- November 21: officers and firefighters were dispatched to a residence on Utah Avenue for an explosion and structure fire. Witnesses reported seeing several male subjects running from the house – one of whom was reportedly on fire. Officers and Fire personnel could not locate any victims of the fire, nor did anyone report any injuries. After conducting a sweep of the house, it

was determined the explosion occurred in the garage causing the fire. Officers found a large quantity of marijuana in the garage and in an interior bedroom. Officers also found containers of butane and traces of concentrated cannabis near the fire source. YONET agents were called to assist, and they determined the occupants of the house were involved in a chemical extraction process to manufacture concentrated cannabis. The resulting blast from the explosion blew the garage door out, destroyed a large portion of the ceiling, and blew the east and west walls away from the foundation and roof trusses. Officers arrested a suspect for two felonies – possession of marijuana for sales and manufacturing a controlled substance through chemical extraction.

- Detectives were requested by Winters PD to take the lead on the investigation of the homicide that occurred in their city.

- Detective Jameson worked with detectives from the Sheriff's Department and Davis PD to serve a search warrant at a residence in the county. The suspect committed multiple property crimes in each jurisdiction. The suspect was arrested and stolen property was recovered.

DECEMBER:

- December 8: report of trespassing at a vacant, bank-owned home on Oak Avenue. An officer observed a female subject, recognized by the officer, walking away from the residence. The officer ordered her to stop, but she got on her bike and tried to flee. The officer grabbed the bike, but she jumped off and ran. The officer pursued her; the suspect stopped, wheeled around, and swung at the officer's face. The officer tried to dodge the blow, but the suspect struck his face and knocked off his glasses. The officer grabbed her and she resisted. The officer was able to subdue, and handcuff, her with the assistance of a second officer. Officers located approximately .59 grams of methamphetamine in her backpack. The suspect was arrested and booked for resisting arrest, use of force or violence against a peace officer, violation of PRCS, and possession of a controlled substance

- December 19: Sutter Davis Hospital for a reported gunshot victim in the ER. The victim, a Vacaville resident, stated he had sustained a gunshot to his foot while at Woodside Park. The injury was superficial and no bullet was recovered. After the shooting, the victim got a ride to a friend's house in Roseville before going to the hospital in Davis. There were no reports of gunfire from residents around the park and no blood or shell casings were located at the park.

- December 21: call of a "suspicious device" found in Wayne Cline Park. Officers confirmed the item was an Improvised Explosive Device and had been found by several children playing in the park. The E.O.D. team responded and took custody of the device. No injuries were reported at the time of the incident and the device had not detonated.

- December 22: burglary of SORD Board shop. Several subjects entered the store, took numerous skateboards off the wall, and ran out the store. Officers reviewed the store's video surveillance and were able to identify four suspects involved in the burglary (three adults and one juvenile). The store's surveillance video had been uploaded by store employees to the web via social media, and viewers assisted in the identification of the suspects. Officers located and arrested all four suspects for burglary and conspiracy.

- December 27: residence on Fifth Street for a report of a brandishing incident. Officers met with the victim who stated he was driving on Fifth Street when a group of Hispanic males challenged him to fight. The group began yelling gang challenges and approached the victim as he slowed down to hear what they were yelling. As he did so, one of them displayed a black semi-automatic handgun. The victim sped off and reported the incident. Officers responded to the residence on Fifth Street and detained five subjects in the front yard of the residence. During the investigation, officers found a loaded semi-automatic handgun on the tire of a vehicle belonging to the resident. GTF was notified to investigate the incident. A 17-year-old Woodland male was identified as the suspect in the brandishing. He was arrested and booked at juvenile

hall for brandishing a handgun, participating in criminal street gang activity, and being a criminal street gang member in possession of a loaded and concealed firearm.

- Detective Elliott was assigned the Winters homicide case after our agency was asked to take over the investigation. The suspect was located in Las Vegas, arrested, and extradited to Yolo County.

- Detective Jameson obtained a warrant and arrested a suspect who stole a vehicle from a local storage facility. The theft was captured on video surveillance.

- Detective Jameson and Detective Hyde obtained arrest warrants on separate rape cases. One suspect fled the area and has not been located. One suspect was located after a DNA match was made, and he is currently incarcerated at High Desert State Prison in Susanville. The third suspect was finally arrested after eluding detectives and is awaiting trial.

157 transients were arrested for violations ranging from violation of the City's no camping ordinance, drunk in public, narcotic violations, recyclable thefts, and warrants.

POP Projects:

There were two new POPs opened, and there are still five open.

Special Enforcement Team (SET):

SET had the following activity: contact with 48 PRCS subjects, 7 parolees, and 23 probationers not on PRCS. They made 31 felony arrests and 3 misdemeanor arrests. They conducted 34 home searches and 6 vehicle searches.

School Resource Officers (SRO):

The SROs had the following activity: 899 consensual contacts. Of those contacts, 17 were for fighting, 3 for alcohol, 45 for drugs, 2 for tobacco, 14 for truancy, 2 for vandalism, 5 for weapons, and 1 for theft. They made 43 arrests, made 1 home visit, issued 25 citations, and took 4 juveniles to the hospital for psychological evaluations.

CRIME				Calendar Year 2013	
Category	Oct.	Nov.	Dec.	Reported to CA DOJ	Pct. Change EOY 2012 - EOY 2013
Homicide	0	0	0	*2	0.00%
Rape	1	0	1	16	60.00%
Robbery	7	2	2	48	2.13%
Aggravated Assaults	24	7	20	207	72.50%
Simple Assaults	23	30	20	313	-15.18%
Burglary	35	52	61	509	41.00%
Larceny/Thefts	108	102	92	1,238	5.63%
Auto Theft	17	13	22	194	-3.96%
Arson	3	1	2	34	-34.62%
TOTAL	218	207	220	2561	11.17%
*1- a child abuse case 10-4-12; child died; reclassified to homicide; reported to DOJ 3-26-13					

WORKLOAD

Calls for Service	Oct.	Nov.	Dec.	EOY Totals	Pct. Change EOY 2012 - EOY 2013
Priority 1	109	96	101	1286	13.70%
Priority 2	1517	1633	1578	19363	5.07%
Priority 3	98	91	84	830	

Other calls for service	1927	1492	1477	37841	
TOTAL	3651	3312	3240	43207	5.39%
Response Times					
Priority 1	8:10	8:14	8:19		
Priority 2	12:06	10:24	11:06		
Priority 3	36:19	46:56	11:06		
Reports					
Online Reports/Coplogics	17	12	7	36	
Mail-in Reports (MLRs)	118	58	104	280	
Other case numbers issued	456	487	500	1443	
TOTAL	591	557	611	1759	
Warrants					
Felony	348	335	334	1017	
Misdemeanor	1073	1110	1094	3277	
TOTAL	1421	1445	1428	4294	
Graffiti	22	16	15	53	
290 Registrant Activity	Oct.	Nov.	Dec.		
Total registrants	114	114	113		
<i>Other Information</i>					
Total transient registrants	15	15	13		
290 PC violation warrants issued	0	0	0		
Non compliance - annual update	0	0	0		

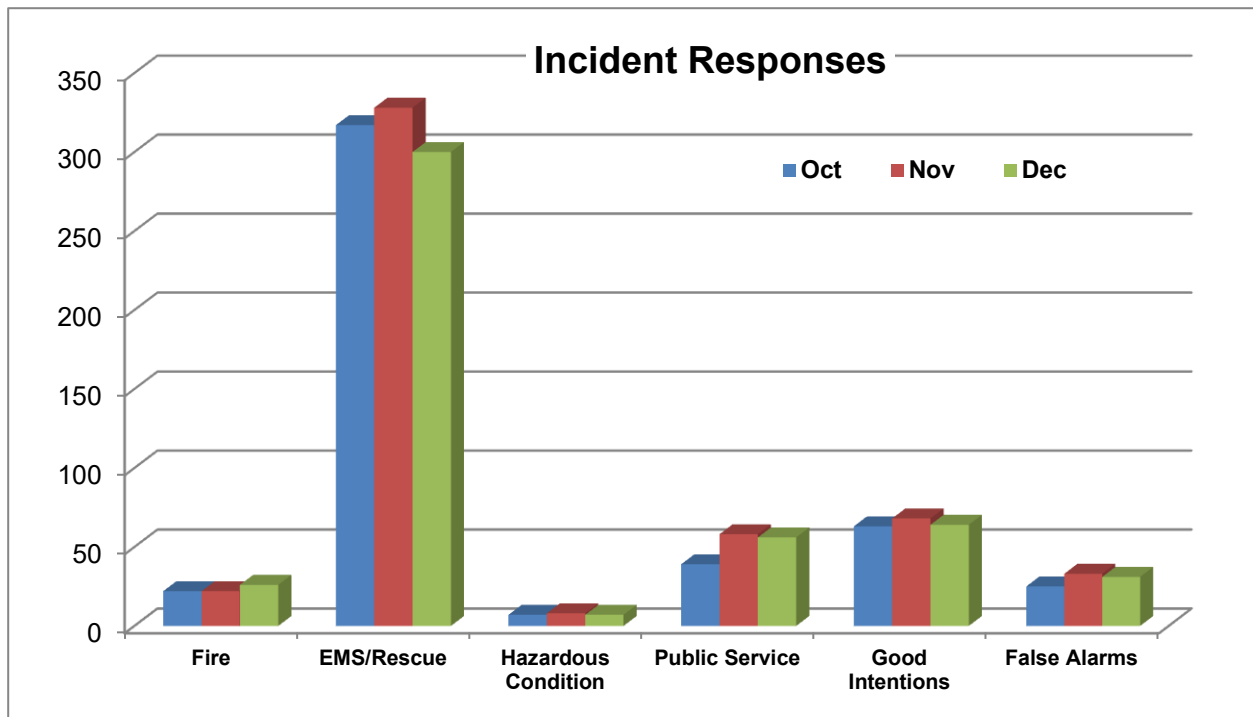
Personnel		
Oct-Dec	Budgeted	Filled
Sworn	60	59
Non-sworn	14	14
Total	74	73

Volunteer/Chaplain Hours (quarter total)	2360
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FIRE:

The Quarterly Status Report includes a wide variety of information in an effort to better inform the public and the City Council.

	Oct	Nov	Dec
Total Incident Responses			
Fire	22	22	26
EMS/Rescue	317	328	300
Hazardous Condition	7	8	7
Public Service	39	58	56
Good Intentions	63	68	64
False Alarms	25	33	31
TOTAL	473	517	484
Mutual/Auto-Aid	7	6	12
Concurrent Incidents	127	153	115
Fire Prevention			
Business Licenses	9	8	10
Commercial Inspections	20	10	10
Engine Company Inspections	57	45	94
Fire Annual Inspections	56	54	82
New Building Inspections	2	0	2
New Project Development	1	3	6
Plan Reviews	26	10	23
Residential Inspections	31	44	41
TOTAL	202	174	268
Weed Abatement hours	0.5	0.0	0.0
Public Education Events	8	2	0



Concurrent Incidents:

These are incidents that come in simultaneously where apparatus and companies (a crew consisting of a Fire Captain, Engineer, and Firefighter) are either all committed to the same incident, or committed to separate incidents at the same time called **concurrent incidents**. The breakdown of concurrent incidents is shown below:

# of Companies committed simultaneously	Oct	Nov	Dec
2 companies	82	91	53
3 companies	29	39	39
4 companies	16	19	17
5 companies	0	4	0
6+ companies	0	0	6
TOTAL	127	153	115
% of Total Incident Responses	26.85%	29.59%	23.76%

Response Time Average for initial fire engine on-scene (in minutes)

Call Type	Oct	Nov	Dec
Fire	5:42	5:51	4:36
EMS	4:12	4:03	4:22

Automatic or Mutual Aid:

Automatic aid is provided to another agency through formal agreement and occurs automatically on significant events without any special request. Mutual aid occurs when fire departments provide help to one another upon special request when a significant event(s) (large incident or multiple small incidents) take place. Every fire agency in Yolo County is a signatory to this agreement.

	Oct	Nov	Dec
Aid Received	3	3	8
Aid Given	4	3	4
TOTAL	7	6	12

Highlights:

October	• All companies attended EMS training on CPR/Pit Crews. • Several companies presented the First Grade Fire Safety program to over 600 first graders throughout Woodland at Zamora, Dingle, Maxwell, Prairie, Beamer, Tafoya, Gibson, Whitehead and Freeman Elementary schools. • Selected companies participated in the Consortium-sponsored Live Interior Structure Fire Training in West Sacramento
November	• All companies attended EMS training on EMS Fitness. • Several members of the department attended the first ever Truck Academy sponsored by the Consortium.
December	• All companies attended EMS training on Pediatric Assessments. • Hosted a Fire Command 1C class sponsored by the Consortium, which many of our firefighters attended in order to complete their CSFM Fire Officer certification. • All companies attended training on the new Target Solutions system that will be used to track and present training effective January 5, 2014.

Legislation Details (With Text)

File #:	14-065	Version:	1	Name:	
Type:	Consent Item(s)		Status:	Agenda Ready	
File created:	2/14/2014		In control:	City Council	
On agenda:	2/18/2014		Final action:		
Title:	SUBJECT: Approve Amendments to Council Committee Responsibilities				
Recommendation for Action: Staff recommends that the City Council approve amendments to the Council Committee Assignments for the Yolo Solano Air Quality Management District.					
Sponsors:					
Indexes:					
Code sections:					
Attachments:	Council Committee matrix 2012-2014 Council Committee matrix 2012-2014_AMENDED				
Date	Ver.	Action By	Action		Result

TO: THE HONORABLE MAYOR AND CITY COUNCIL

DATE: February 18, 2014

SUBJECT: Approve Amendments to Council Committee Responsibilities

Recommendation for Action: Staff recommends that the City Council approve amendments to the Council Committee Assignments for the Yolo Solano Air Quality Management District.

Staff ContactAna Gonzalez, City Clerk - 530-661-5806, ana.gonzalez@cityofwoodland.org**Background**

On July 10, 2012, the Council approved appointments to various Boards, Commissions and Committees for the period 2012 through 2014.

Mayor Davies has submitted a request to modify the appointments to the Yolo Solano Air Quality Management District. Currently Mayor Davies is the Primary member and Council Member Denny is the alternate member.

Mayor Davies has requested that Council Member Denny be appointed as the Primary member and Mayor Davies as the alternate member.

Prepared by: Ana Gonzalez, City Clerk

A handwritten signature in dark ink, appearing to read "Paul Navazio", with a long, sweeping horizontal stroke extending to the right.

Paul Navazio, City Manager

Attached: Current Approved City Council Assignments
 Proposed City Council Assignments

General Plan Elements		Land Use / Community Design	Housing	Tranportation / Circulation	Public Facilities	Recreation, Educ., Community Serv.	Historic Preservation	Environmental Resources	Heatlh & Safety	Econ Dev.	OTHER
Inter-Jurisdictional Bodies											
	LAFCO	X									
	SACOG	X	X	X							
	YCTD			X							
	WRA (Water)							X			
	WDCWA JPA							X			
	Air Quality Mgmt District							X			
	Natural Resource Conv. Plan (JPA)							X			
Liaison Appointments											
	Yolo County 2x2 / Courts 2x2										X
	WJUSD/WCC/City 3x2x2										X
	Davis 2x2										X
	UCD 2x2										X
	Chamber 2x2									X	
	Downtown Bussiness Assoc 2x2									X	
	Yolo County Criminal Justice Cabinet								X		
	Yolo Economic Dev. Council									X	
Standing Committees											
	Investment Committee										X
	Solid Waste							X			
AD HOC Committees											
	Art in Public Places										X
	Energy Committee							X			
	Infrastructure Committee			X	X	X					
Other											
	Homeless Coordination Project					X					
	Flood Committee							X			
	Springlake Finance Focus Group										X
	Spring Lake Specific Plan Committee	X									
	Sports Council					X					
	League Voting Delegates										X
	2x1x2 Water ????							X			
Commissions / Boards											
2x Month	Library Board					X					
Monthly	Planning Commission	X									
Monthly	Parks & Recreation					X					
Monthly	Aging		X			X					
Monthly	Historical Preservation						X				
On-Call	Traffic Safety Commission			X							
On-Call	Undergrounding				X						
On-Call	Personnel Board										
On-Call	Board of Bldg Appeals		X								
TBD	Manuf. Homes Fair Practices		X								

**CITY OF WOODLAND
CITY COUNCIL APPOINTMENTS
2012-2014**

INTER-JURISDICTIONAL BODIES	MAYOR DAVIES	VICE MAYOR STALLARD	COUNCIL MEMBER MARBLE	COUNCIL MEMBER HILLIARD	COUNCIL MEMBER DENNY	MEETING DATES	MEETING TIME	COMMITTEE DEFINITION/PURPOSE
LOCAL AGENCY FORMATION COMMISSION (LAFCO)	P				A			
SACRAMENTO AREA COUNCIL OF GOVERNMENTS (SACOG)		P		A		3 rd Thursday	9:00 a.m.	Legislative coordination & information provision of areas of interest to Cities in the region.
YOLO COUNTY TRANSPORTATION DISTRICT (YCTD)			P		A	2 nd Monday	7:00 p.m.	Established in 1998 by State legislation. Administers countywide transit (YOLOBUS) system & related planning services.
YOLO SOLANO AIR QUALITY MANAGEMENT DISTRICT (Yolo/Solano AQMD)	P				A	2 nd Wednesday	9:00 a.m.	Bi-county regional air quality district with County and City representatives.
WATER RESOURCES ASSOCIATION OF YOLO COUNTY (WRA)			P	A		Quarterly as needed on Monday at Leake Room	3:00 p.m. -5:00 p.m.	Discusses countywide water availability, quality & transfer issues; representatives from Cities, County, Water Agencies & other interested organizations.
WOODLAND/DAVIS CLEAN WATER AGENCY (JPA)	P		P	A		3 rd Thursday	3:00 p.m.	
NATURAL COMMUNITIES CONSERVATION PLAN (JPA)		A			P			Joint Powers Board charged with preparation & implementation of a Natural Communities Conservation Plan to preserve habitat & open space.

LIAISON APPOINTMENTS	MAYOR DAVIES	VICE MAYOR STALLARD	COUNCIL MEMBER MARBLE	COUNCIL MEMBER HILLIARD	COUNCIL MEMBER DENNY	MEETING DATES	MEETING TIME	COMMITTEE DEFINITION/PURPOSE
YOLO COUNTY 2X2 - YOLO COUNTY/COURTS 2X2X2	P	P			A	Usually meets monthly	4:00 p.m.	Discusses issues of mutual interest & keep regular dialog.
WJUSD/WOODLAND COMM COLLEGE 3X2X2	A	P			P	3 rd Tuesday	8:00 a.m.	Discusses issues of mutual interest with School Board and City Council Representatives.
CHAMBER OF COMMERCE 2X2	P		A	P		1 st Tuesday	9:15 a.m.	Discusses issues of mutual interest & maintains regular dialog.
DOWNTOWN BUSINESS DEVELOPMENT TASK FORCE				P	P			Work with all Downtown Businesses to enhance and improve business climate in Downtown Woodland
YOLO COUNTY ECONOMIC DEVELOPMENT COUNCIL	P	P				3 rd Wednesday	7:30 a.m. YC Administration Building	Formed in early 1998 by Yolo County, combines representatives from all communities and many agencies to enhance economic development County Wide.
YOLO COUNTY CRIMINAL JUSTICE CABINET					P	3 rd Thursday	3:30 p.m.	Established in 1997 by Yolo County, to enhance existing levels of cooperation among all stakeholders to criminal justice system.
YOLO COUNTY COMMUNITY CHOICE AGGREGATION TASK FORCE				P	A			
LEAGUE OF CALIFORNIA CITIES - VOTING DELEGATE			P	A				Beginning 1/1995, this is a League of California Cities program for regular communication between Cities & their State legislative representatives.

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STANDING COMMITTEES	MAYOR DAVIES	VICE MAYOR STALLARD	COUNCIL MEMBER MARBLE	COUNCIL MEMBER HILLIARD	COUNCIL MEMBER DENNY	MEETING DATES	MEETING TIME	COMMITTEE DEFINITION/PURPOSE
CITY OF WOODLAND SUSTAINABILITY COMMITTEE	A	P		P		On-call	On-call	Coordinates City efforts to address local, state and federal goals related to environmental sustainability. Merges former Solid Waste and Energy Committees.
INFRASTRUCTURE SUB-COMMITTEE	P	P			A	On-call	On-call	Meets to review Capital Plans & facilities & related subdivision infrastructure needs.
FLOOD/WATER COMMITTEE			P	A		On-call	On-call	Communication with Chamber and Community Groups regarding water and flood issues.

OTHER COMMITTEES - AD- HOC	MAYOR DAVIES	VICE MAYOR STALLARD	COUNCIL MEMBER MARBLE	COUNCIL MEMBER HILLIARD	COUNCIL MEMBER DENNY	MEETING DATES	MEETING TIME	COMMITTEE DEFINITION/PURPOSE
ART IN PUBLIC PLACES						On call	On-call	To be determined.
SPRING LAKE SPECIFIC PLAN & FINANCING SUB-COMMITTEE						On-call	On-call	Reviews issues related to implementation of the Spring Lake Specific Plan. Re-evaluate financial constraints of Spring Lake development.
CITY OF DAVIS						On call	On-call	Discusses issues of mutual interest
UNIVERSITY OF CALIFORNIA AT DAVIS						On-call	On-call	Discusses issues of mutual interest
CITY OF WEST SACRAMENTO						On-call	On-call	Discusses issues of mutual interest

NOTES:

- 1 Combines Prior City/County 2x2 with County/Courts 2x2x2
- 2 Replaces former Downtown Business Association 2x2
- 3 DELETE - City of Woodland Investment - Scope is provided for in Quarterly Treasurer's Report to full Council
- 4 Combines Specific Plan Sub-Committee w/ SL Financial Focus Working Group
- 5 NOT A RECOGNIZED LIAISON BODY

General Plan Elements		Land Use / Community Design	Housing	Tranportation / Circulation	Public Facilities	Recreation, Educ., Community Serv.	Historic Preservation	Environmental Resources	Heatlh & Safety	Econ Dev.	OTHER
Inter-Jurisdictional Bodies											
	LAFCO	X									
	SACOG	X	X	X							
	YCTD			X							
	WRA (Water)							X			
	WDCWA JPA							X			
	Air Quality Mgmt District							X			
	Natural Resource Conv. Plan (JPA)							X			
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	Yolo County 2x2 / Courts 2x2										X
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	Davis 2x2										X
	UCD 2x2										X
	Chamber 2x2									X	
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	Yolo Economic Dev. Council									X	
Standing Committees											
	Investment Committee										X
	Solid Waste							X			
AD HOC Committees											
	Art in Public Places										X
	Energy Committee							X			
	Infrastructure Committee			X	X	X					
Other											
	Homeless Coordination Project					X					
	Flood Committee							X			
	Springlake Finance Focus Group										X
	Spring Lake Specific Plan Committee	X									
	Sports Council					X					
	League Voting Delegates										X
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Monthly	Planning Commission	X									
Monthly	Parks & Recreation					X					
Monthly	Aging		X			X					
Monthly	Historical Preservation						X				
On-Call	Traffic Safety Commission			X							
On-Call	Undergrounding				X						
On-Call	Personnel Board										
On-Call	Board of Bldg Appeals		X								
TBD	Manuf. Homes Fair Practices		X								

**CITY OF WOODLAND
CITY COUNCIL APPOINTMENTS
2012-2014
PROPOSED CHANGES**

INTER-JURISDICTIONAL BODIES	MAYOR DAVIES	VICE MAYOR STALLARD	COUNCIL MEMBER MARBLE	COUNCIL MEMBER HILLIARD	COUNCIL MEMBER DENNY	MEETING DATES	MEETING TIME	COMMITTEE DEFINITION/PURPOSE
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WATER RESOURCES ASSOCIATION OF YOLO COUNTY (WRA)			P	A		Quarterly as needed on Monday at Leake Room	3:00 p.m. -5:00 p.m.	Discusses countywide water availability, quality & transfer issues; representatives from Cities, County, Water Agencies & other interested organizations.
WOODLAND/DAVIS CLEAN WATER AGENCY (JPA)	P		P	A		3 rd Thursday	3:00 p.m.	
NATURAL COMMUNITIES CONSERVATION PLAN (JPA)		A			P			Joint Powers Board charged with preparation & implementation of a Natural Communities Conservation Plan to preserve habitat & open space.

LIAISON APPOINTMENTS	MAYOR DAVIES	VICE MAYOR STALLARD	COUNCIL MEMBER MARBLE	COUNCIL MEMBER HILLIARD	COUNCIL MEMBER DENNY	MEETING DATES	MEETING TIME	COMMITTEE DEFINITION/PURPOSE
YOLO COUNTY 2X2 - YOLO COUNTY/COURTS 2X2X2	P	P			A	Usually meets monthly	4:00 p.m.	Discusses issues of mutual interest & keep regular dialog.
WJUSD/WOODLAND COMM COLLEGE 3X2X2	A	P			P	3 rd Tuesday	8:00 a.m.	Discusses issues of mutual interest with School Board and City Council Representatives.
CHAMBER OF COMMERCE 2X2	P		A	P		1 st Tuesday	9:15 a.m.	Discusses issues of mutual interest & maintains regular dialog.
DOWNTOWN BUSINESS DEVELOPMENT TASK FORCE				P	P			Work with all Downtown Businesses to enhance and improve business climate in Downtown Woodland
YOLO COUNTY ECONOMIC DEVELOPMENT COUNCIL	P	P				3 rd Wednesday	7:30 a.m. YC Administration Building	Formed in early 1998 by Yolo County, combines representatives from all communities and many agencies to enhance economic development County Wide.
YOLO COUNTY CRIMINAL JUSTICE CABINET					P	3 rd Thursday	3:30 p.m.	Established in 1997 by Yolo County, to enhance existing levels of cooperation among all stakeholders to criminal justice system.
YOLO COUNTY COMMUNITY CHOICE AGGREGATION TASK FORCE				P	A			
LEAGUE OF CALIFORNIA CITIES - VOTING DELEGATE			P	A				Beginning 1/1995, this is a League of California Cities program for regular communication between Cities & their State legislative representatives.

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STANDING COMMITTEES	MAYOR DAVIES	VICE MAYOR STALLARD	COUNCIL MEMBER MARBLE	COUNCIL MEMBER HILLIARD	COUNCIL MEMBER DENNY	MEETING DATES	MEETING TIME	COMMITTEE DEFINITION/PURPOSE
CITY OF WOODLAND SUSTAINABILITY COMMITTEE	A	P		P		On-call	On-call	Coordinates City efforts to address local, state and federal goals related to environmental sustainability. Merges former Solid Waste and Energy Committees.
INFRASTRUCTURE SUB-COMMITTEE	P	P			A	On-call	On-call	Meets to review Capital Plans & facilities & related subdivision infrastructure needs.
FLOOD/WATER COMMITTEE			P	A		On-call	On-call	Communication with Chamber and Community Groups regarding water and flood issues.

OTHER COMMITTEES - AD- HOC	MAYOR DAVIES	VICE MAYOR STALLARD	COUNCIL MEMBER MARBLE	COUNCIL MEMBER HILLIARD	COUNCIL MEMBER DENNY	MEETING DATES	MEETING TIME	COMMITTEE DEFINITION/PURPOSE
ART IN PUBLIC PLACES						On call	On-call	To be determined.
SPRING LAKE SPECIFIC PLAN & FINANCING SUB-COMMITTEE						On-call	On-call	Reviews issues related to implementation of the Spring Lake Specific Plan. Re-evaluate financial constraints of Spring Lake development.
CITY OF DAVIS						On call	On-call	Discusses issues of mutual interest
UNIVERSITY OF CALIFORNIA AT DAVIS						On-call	On-call	Discusses issues of mutual interest
CITY OF WEST SACRAMENTO						On-call	On-call	Discusses issues of mutual interest

NOTES:

- 1 Combines Prior City/County 2x2 with County/Courts 2x2x2
- 2 Replaces former Downtown Business Association 2x2
- 3 DELETE - City of Woodland Investment - Scope is provided for in Quarterly Treasurer's Report to full Council
- 4 Combines Specific Plan Sub-Committee w/ SL Financial Focus Working Group
- 5 NOT A RECOGNIZED LIAISON BODY

Legislation Details (With Text)

File #: 14-011 Version: 1 Name:
Type: Consent Item(s) Status: Agenda Ready
File created: 1/10/2014 In control: City Council
On agenda: 2/18/2014 Final action:
Title: SUBJECT: Final Acceptance and Notice of Completion for Parks Irrigation Rehabilitation Project, Phase 4, Freeman Park, CIP 10-01 and Approve Reallocation of Project Funding from the Parks Irrigation Project (CIP #10-01) to the Brooks Swim Center Project (CIP #12-18).

Recommendation for Action: Staff recommends City Council 1) accept the Parks Irrigation Rehabilitation Project, Phase 4, Freeman Park, CIP 10-01 as complete and authorize the City Clerk to file a Notice of Completion and 2) approve reallocation of \$100,000 of Measure E funds from the Parks Irrigation Project (CIP #10-01) to the Brooks Swim Center Project (CIP #12-18).

Sponsors:

Indexes:

Code sections:

Attachments:

Date	Ver.	Action By	Action	Result
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TO: THE HONORABLE MAYOR AND CITY COUNCIL

DATE: February 18, 2014

SUBJECT: Final Acceptance and Notice of Completion for Parks Irrigation Rehabilitation Project, Phase 4, Freeman Park, CIP 10-01 and Approve Reallocation of Project Funding from the Parks Irrigation Project (CIP #10-01) to the Brooks Swim Center Project (CIP #12-18).

Recommendation for Action : Staff recommends City Council 1) accept the Parks Irrigation Rehabilitation Project, Phase 4, Freeman Park, CIP 10-01 as complete and authorize the City Clerk to file a Notice of Completion and 2) approve reallocation of \$100,000 of Measure E funds from the Parks Irrigation Project (CIP #10-01) to the Brooks Swim Center Project (CIP #12-18).

Staff Contact

Clara Olmedo, Assistant Engineer - (530) 661-5824, clara.olmedo@cityofwoodland.org

Fiscal Impact

The project was funded in the Capital Budget in the amount of \$2,458,262 consisting of \$2,064,425 Measure E (MSE) and \$856,297 Proposition 50 grant funding. The Phase 4, Freeman Park project also included a \$97,000 grant from the State Housing and Community Development (HCD). The total project budget covered phases 1-4 of the Parks Irrigation Project including completion of phase 4, Freeman Park.

Of the approved MSE funding, \$250,000 of MSE funds were transferred to another MSE funded project, Brooks Swim Center Renovation, CIP 12-18 during this fiscal year. The Freeman Park, Phase 4 project was awarded under budget which allowed us to award the original Brooks Pool project as bid. This required a \$250,000 transfer from the Parks Irrigation project. An additional transfer of \$100,000 is needed to fund the replacement of the diving boards for Brooks Pool project. There is approximately \$300,000 of MSE funding that remains appropriated for Parks Irrigation that will be re-programmed this spring through the MSE Spending Plan.

Since the City pays for the water used to irrigate all of our parks, these system improvements will reduce the cost to the General Fund through more efficient irrigation methods. Additionally, more efficient irrigation in the parks will help in the overall water conservation efforts needed in the community to meet the current drought conditions.

Report in Brief

On July 2, 2013 the City Council awarded a construction contract to Procida Landscape, Inc. in the amount of \$461,363.83 to replace the aging irrigation system at Freeman Park - the final phase of the project.

The work, performed in accordance with the plans and specifications, was delivered ahead of schedule and under budget and is ready for acceptance by City Council.

Background

The contractor began construction in August 2013 and finished the work December 2013.

Change orders were issued in the amount of \$18,254.89 to complete construction of additional concrete flat work, additional equipment purchases, and electrical work. The final contract value was \$479,618.72.

In addition to the irrigation upgrades, the complete \$2.46 million project incorporated some master plan amenities into each of the improved parks. For Freeman Park specifically, improvements included benches, picnic tables, paths, and landscaping of the parking lot (rebuilt by the Well 28 project). Approved bid alternates included funding for a basketball half-court and the use of sod which allowed staff to open the park to the public earlier than anticipated.

Discussion

The City obtained a Proposition 50 grant from the State Department of Water Resources in 2007 to make water efficiency improvements at City parks. The grant required the City to upgrade the irrigation systems in seven parks: Southland, City, Harris, Christiansen, Camarena, Tredway and Freeman. As required in the terms of the grant agreement, all work at all parks was completed by December 31, 2013. Since the Proposition 50 grant only allowed for water efficiency improvements in the parks, MSE funds were used to construct other much needed amenities during the construction process.

Between 2008 and 2012, the improvements associated with phases 1-3 were completed. Freeman Park was the final phase of the project. Freeman Park was originally intended to be part of phase 3 but was delayed due to the construction of Water Well 28.

The Brooks Swim Center diving boards were found to be degraded beyond repair or salvage during renovation of the pool. The cost to replace two 1-meter and two 3-meter diving boards will be \$100,000. The diving boards will be installed Spring 2014.

Conclusion

Staff recommends City Council 1) accept the Parks Irrigation Rehabilitation Project, Phase 4, Freeman Park, CIP 10-01 as complete and authorize the City Clerk to file a Notice of Completion and 2) approve reallocation of \$100,000 of Measure E funds from the Parks Irrigation Project (CIP #10-01) to the Brooks Swim Center Project (CIP #12-18).

Prepared by: Clara Olmedo, Assistant Engineer

Reviewed by: Katie Wurzel, Principal Civil Engineer
Ken Hiatt, Community Development Director

A handwritten signature in dark ink, appearing to read "Paul Navazio", with a long horizontal stroke extending to the right.

Paul Navazio, City Manager

Legislation Details (With Text)

File #: 13-323 Version: 1 Name: Police Department Chiller Replacement
Type: Consent Item(s) Status: Agenda Ready
File created: 11/5/2013 In control: City Council
On agenda: 2/18/2014 Final action:
Title: SUBJECT: Police Department Chiller Replacement

Recommendation for Action: Staff recommends that the City Council:

- 1) reject the Cooper Oates Air Conditioning bid as non-responsive due to insufficient information on financing and project scheduling and;
- 2) authorize the City Manager to enter into a contract with the lowest responsive bidder, American Chiller Services, Inc. for the replacement of the Police Department's water-cooled chiller with a new air-cooled chiller at a cost of \$159,904; and
- 3) authorize procurement via a 5-year vendor-provided payment plan, at an annual interest rate of 3.11%.

Sponsors:

Indexes:

Code sections:

Attachments: [PD Chiller Construction Contract 02072014 \(post-attorney review\)](#)
[WOODLAND PD Chiller RESO](#)

Date	Ver.	Action By	Action	Result
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TO: THE HONORABLE MAYOR AND CITY COUNCIL

DATE: February 18, 2014

SUBJECT: Police Department Chiller Replacement

Recommendation for Action: Staff recommends that the City Council:

- 1) reject the Cooper Oates Air Conditioning bid as non-responsive due to insufficient information on financing and project scheduling and;
- 2) authorize the City Manager to enter into a contract with the lowest responsive bidder, American Chiller Services, Inc. for the replacement of the Police Department's water-cooled chiller with a new air-cooled chiller at a cost of \$159,904; and
- 3) authorize procurement via a 5-year vendor-provided payment plan, at an annual interest rate of 3.11%.

Staff ContactTroy Thompson, Fleet & Facilities Manager - (530)661-5956 - troy.thompson@cityofwoodland.org**Fiscal Impact**

The low-bid for the replacement of the Police Department water-cooled chiller was \$147,720, and the bid includes an option to finance the purchase over at 5-year period (3.11%), resulting to a total cost of \$156,904. Funding to support this purchase is provided through the Facility Asset Replacement Fund, with the first-year payment (\$31,381 plus 15% contingency) will come from FY13/14 appropriation and subsequent payments to

be provided in budgeted appropriations through FY18/19. There is no direct General Fund impact.

It is estimated that the City will save more than \$140,000 over the next 15 years by replacing the Police Department's existing water-cooled chiller at this time with a more energy-efficient air-cooled chiller. Included in the savings estimate is the cost of needed repairs to the chiller that would merely delay - and not avoid - the need to replace the unit.

Background

While the Police Department building is relatively new (opened in 2004), the groundwater quality and hardness has severely degraded the water-cooled chiller portion of the HVAC (heating, ventilation, and cooling) system. To continue to provide air conditioning and sustain an adequate workplace environment at the Police Department, the chiller must be repaired or replaced. This past summer, the unit failed and resulted in loss of climate control for nearly a week. Temporary repairs were able to return the unit into service, but more extensive repairs are needed to ensure reliability, with no guarantee as to how long its useful life can be extended.

As a result, having evaluated the options of proceeding with extensive repair versus replacement, staff is recommending to replace the old and nearly worn-out system with a new air-cooled chiller. The new chiller will play a significant role in creating the proper comfort levels and sustainable work environment. Not only will a new chiller provide the right temperature, humidity and ventilation, it will also help reduce the building's cost of operation, provide energy efficiency, and minimize environmental impacts.

Discussion

It is estimated the cost of replacing condensers in the Police Department chiller could exceed \$68,000, and result in extending its useful life by no more than 5 years (and even that life-cycle estimate is questionable due to the excessive wear on the entire structure). As a result, Facilities staff started looking into additional options. After researching the issue, and in consultation with industry experts, staff has determined that it is financially beneficial to replace the entire system with a new energy-efficient air-cooled unit.

The following assumptions support the choice of the air-cooled chiller:

1. There are no physical constraints in the PD complex or plumbing when installing the recommended air-cooled chiller
2. There is adequate space to accommodate the chiller (This is a very large structure)
3. The air-cooled chiller model is one of the latest and most reliable and energy efficient products on the market and will enhance the reliability of the building's HVAC system

In addition, replacing the existing chiller with a more efficient air-cooled chiller will result in more than \$12,000 in energy and maintenance savings per year. Because of the large unanticipated expense of replacing this chiller, the City requested the bidders incorporate a financing plan in their bid package. This will allow us to spread the costs over a five-year period.

Public Works staff has publically noticed an invitation to bid on the project and received bids from 3 companies within the bid timeframe.

<u>Company Name</u>	<u>Base Bid</u>	<u>Interest Rate</u>	<u>Payments</u>	<u>Total Amount, Principal + Interest</u>
Honeywell Building Solutions	\$152,500	5.49%	5	\$169,405 (Interest = \$16,905)
American Chiller Service,	\$147,720	3.11%	5	\$156,904 (Interest = \$13,405)

Inc.

Cooper Oates \$126,796 Interest rate, payment terms and total amount bid could not be determined from the face of the bid

Air

Conditioning**

(** Note : Cooper Oates Air Conditioning did not include a construction schedule or a finance plan in their proposal).

Staff has performed due diligence in reviewing the bids and all bids comply with the technical requirements, except as indicated in the note above.

American Chiller Services Inc. has been determined to be the lowest responsive and responsible bidder. The estimated project completion date currently stands at April 30, 2014. In addition to being the lowest responsive bidder, ACS has indicated they will provide standby air conditioning during the week-long demolition and installation period. This is a significant benefit to the users of the building because the replacement of the chiller system would eliminate all HVAC from the building for a full week.

Because time is such a critical element in this replacement, a 15% contingency is requested to address unexpected expenses and pursue expedited material handling, if needed, to complete the project prior to the onset of very hot weather. The appropriation from the FY 13/14 FAR would not exceed \$53,539.

Alternatives Courses of Action

1. Authorize the City Manager to enter into a contract with the second lowest bidder: American Chiller Services, Inc. for the replacement of the Police Department's water-cooled chiller with a new air-cooled chiller at a cost of \$159,904, and;
2. Do not replace the water-cooled chiller with a new air-cooled chiller and appropriate \$68,000 from the City's Facilities Asset Reserve Fund to cover the replacement of the two failing compressors.

Conclusion

Staff recommends that the City Council (1) reject the Cooper Oates Air Conditioning bid as non-responsive due to insufficient information on financing and project scheduling and; (2) authorize the City Manager to enter into a contract with the lowest responsible bidder, American Chiller Services, Inc. for the replacement of the Police Department's water-cooled chiller with a new air-cooled chiller at a cost of \$159,904; and (3) authorize the use of up to \$53,539 from the Facilities Asset Reserve (FAR) Fund in FY 13/14 for the timely demolition and installation of the equipment.

Prepared by: Troy Thompson, Fleet & Facilities Manager

Reviewed by: Greg Meyer, Public Works Director



Paul Navazio, City Manager

Attachments: Resolution
Contract

CONSTRUCTION CONTRACT

THIS CONSTRUCTION CONTRACT (hereinafter “Contract”) is made on the date set forth below, by and between the **City of Woodland** (hereinafter “City”) and **American Chiller Services, Inc.** (hereinafter “Contractor”).

W I T N E S S E T H:

That the parties hereto have mutually covenanted and agreed, and by these presents do covenant and agree with each other, as follows:

A-1 CONTRACT DOCUMENTS

The complete Contract consists of the following documents, to wit:

1. Informal Bid Request for Proposals
2. Bid Form
3. Construction Contract (this document)
4. Payment Bond to Accompany Contract
5. Working Details and Plans
6. All Addenda and Change Orders
7. City of Woodland Standard Details and Construction Specifications of the Engineering Standards (current edition at time of bidding)
8. Caltrans Standard Specifications and Standard Plans (current edition at time of award).

Any and all obligations of the City and the Contractor are fully set forth and described therein. All of the above documents are intended to cooperate so that any work called for in one and not mentioned in the other or vice versa is to be executed the same as if mentioned in all said documents. Unless incorporated herein by express reference, Sections 1 through 9, inclusive, of the Caltrans Standard Specifications are hereby expressly excluded from these contract documents and nothing set forth herein shall be deemed to incorporate Sections 1 through 9, inclusive, by implication.

A-2 THE WORK

The Contractor agrees to furnish all work, labor, tools, materials, transportation, equipment, services and other means of construction necessary to perform and complete in a good and workmanlike manner, those certain improvements entitled:

Police Department Chiller Replacement

as called for, and in the manner designated in, and in strict conformity with, the Plans and Specifications.

It is understood and agreed that the work, labor, tools, materials, transportation, equipment, services and other means of construction shall be furnished and the work performed and completed as required in the Plans and Specifications under the sole direction and control of

CONSTRUCTION CONTRACT

the Contractor, and subject to inspection and approval of the City, or its representatives. The City hereby designates as its representative for the purpose of this Contract the following named person: Troy Thompson.

A-3 CONTRACT PRICE

The City agrees to pay and the Contractor agrees to accept, in full payment for the work above agreed to be done, the sum of **One hundred fifty-six thousand nine hundred four dollars (\$156,904)** subject to additions and deductions as provided in the Contract Documents ("Contract Price"). The Contract Price shall be paid in accordance with Exhibit "B."

A-4 TIME FOR PERFORMANCE

The Contractor shall commence work within ten (10) days of the Notice to Proceed, and diligently prosecute the work to completion within sixty-three (63) days of said Notice to Proceed.

A-5 PERMITS; COMPLIANCE WITH LAW

The Contractor shall, at its expense, obtain all necessary permits and licenses, easements, etc., for the construction of the project, give all necessary notices, pay all fees required by law, and comply with all laws, ordinances, rules and regulations relating to the work and to the preservation of the public health and safety.

A-6 BID SCHEDULE

Item	Qty	Unit	Price
Carrier 30RB Air Cooled Scroll Chiller Model Number 30RBX150	1	LS	\$147,720
Finance Charges, 5-year @ 3.11%	1	LS	\$9,184

TOTAL BID AMOUNT: \$156,904

NOTE: SEE EXHIBIT "B" FOR FINANCE SCHEDULE (PAGE 11)

A-7 INSPECTION BY CITY

The Contractor shall at all times maintain proper facilities and provide safe access for inspection by the City to all parts of the work, and to the shops wherein the work is in preparation. Where the Specifications require work to be specially tested or approved, it shall not be tested or covered up without timely, written approval by the City. Should any such work be covered up without such notice, approval, or consent, it must, if required by City, be uncovered for examination at the Contractor's expense.

A-8 CONTRACTOR

(a) Contractor acknowledges that Contractor is an independent Contractor and not an employee, agent or representative of the City. Contractor acknowledges that Contractor shall be solely responsible for and shall indemnify and hold the City harmless from all matters relating to payment of Contractor's employees, subcontractors, suppliers and others, including compliance with Social Security, withholding and all other regulations governing such matters.

(b) Contractor shall supervise and direct the work using Contractor's best skill and attention. Contractor shall be solely responsible for all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the work under the Contract. If the work of the Contract is part of a larger project, Contractor shall communicate and cooperate with the City and any other Contractors on the project to the extent necessary so that the performance and sequence of the entire project may be carried forward in good order and in a timely manner.

(c) Unless otherwise specifically noted in a writing signed by the City, Contractor shall provide and pay for all labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation and other facilities and services necessary for the proper execution and completion of the work.

(d) Contractor shall at all times enforce strict discipline and good order among Contractor's employees, and shall not employ on the work any unfit person or anyone not skilled in the task assigned.

(e) Contractor represents and warrants to the City that all materials and equipment incorporated in the work will be new unless otherwise specified, and that all work will be of good quality, free from faults and defects and in conformance with the Contract. All work not so conforming to these standards may be considered defective. This warranty shall be in addition to any other warranty provided by law or contract.

(f) Contractor shall pay all sales, consumer, use and other similar taxes required by law and shall secure and pay for all permits, fees and licenses necessary for the execution of the work.

(g) Contractor shall furnish the City with labor and material releases from all subcontractors performing work on, or furnishing materials for, the work governed by this Contract prior to final payment by the City.

(h) Contractor represents that it is an equal opportunity employer and that it shall not discriminate against any employee or applicant for employment because of race, religion, color, national origin, ancestry, sex, age or other interests protected by the State or Federal Constitutions. Such non-discrimination shall include, but not be limited to, all activities related to initial employment, upgrading, demotion, transfer, recruitment or recruitment advertising, layoff or termination

CONSTRUCTION CONTRACT

(i) Contractor shall give all notices and comply with all laws, ordinances, rules, regulations and orders of any public authority bearing on the performance of the work, and shall notify the City if any of the Contract are at variance therewith. Contractor shall be liable for all violations of such laws and regulations. If Contractor observes that the drawings or specifications are at variance with any law, rule or regulation, it shall promptly notify the City in writing. Any necessary changes shall be made by written change order. If Contractor performs any work knowing it to be contrary to such laws, rules and regulations and without giving written notice to the City, Contractor shall be solely responsible for all costs arising therefrom. Contractor shall defend, indemnify and hold the City, its officials, officers, employees and agents free and harmless, pursuant to the indemnification provisions of this Contract, from any claim or liability arising out of any failure or alleged failure to comply with such laws, rules or regulations.

(j) Contractor shall be responsible for the acts and omissions of all Contractor's employees and all subcontractors, their agents and employees and all other persons performing any of the work under a contract with Contractor.

(k) Contractor at all times shall keep the premises free from accumulation of waste materials or rubbish caused by Contractor's operations. At the completion of the work, Contractor shall remove all Contractor's waste materials and rubbish from and about the project as well as Contractor's tools, construction equipment, machinery and surplus materials. If Contractor fails to clean up, the City may do so and charge the cost to Contractor.

(l) Contractor acknowledges that he or she has made an independent investigation of the job site, including underground conditions and all other conditions that might affect the progress of the work and is satisfied as to those conditions.

A-9 NOTICE

Any notice from one party to the other under the Contract shall be in writing and shall be dated and signed by the party giving such notice or by a duly authorized representative of such party. Any such notice shall not be effective for any purpose whatsoever unless served in the following manner.

- (a) If the notice is given to the City, by personal delivery thereof to the City's Director of Community Development, or by depositing the same in the United States mail, enclosed in a sealed envelope, addressed to the City's Director of Community Development, postage prepaid and certified;
- (b) If the notice is given to the Contractor, by personal delivery thereof to said Contractor or to its duly authorized representative at the site of the project, or by depositing the same in the United States mail, enclosed in a sealed envelope, addressed to the Contractor at the address set forth in the Contractor's Bid postage prepaid and certified; or

- (c) If the notice is given to the surety or any other person, by personal delivery to such surety or other person, or by depositing the same in the United States mail, enclosed in a sealed envelope, addressed to such surety or other person, as the case may be, at the address of such surety or person last communicated by it to the party giving the notice, postage prepaid and certified.

A-10 ACCIDENT PREVENTION

Precaution shall be exercised at all times for the protection of persons (including employees) and property. The safety provisions of applicable laws, building and construction codes shall be observed. Machinery, equipment, and other hazards shall be guarded or eliminated in accordance with the safety provisions of the Construction Safety Orders issued by the Occupational Safety and Health Standards Board of the State of California.

A-11 CONTRACTOR'S WARRANTY

The City shall not, in any way or manner, be answerable or suffer loss, damage, expense or liability for any loss or damage that may happen to said building, work, or equipment or any part thereof, or in, on, or about the same during its construction and before acceptance. Contractor unqualifiedly warrants all work and materials to be free of defects whether performed or installed by it or by any subcontractor or supplier in the project which is the subject of this Contract, unless a lesser quality is expressly authorized in the Plans and Specifications, in which event Contractor unqualifiedly warrants such lesser quality. Contractor further warrants that the work as performed by Contractor, subcontractor, or supplier will conform with the Plans and Specifications or any written authorized deviations therefrom.

A-12 LIQUIDATED DAMAGES

Liquidated damages will not be assessed although the City will not make payment until the work is completed.

A-13 APPRENTICES

- (a) The Contractor's attention is directed to the provisions of Sections 1777.5, 1777.6, and 1777.7 of the California Labor Code concerning employment of apprentices by the Contractor or any subcontractor under him. In addition, Contractor shall obtain a certificate of apprenticeship before employing any apprentice pursuant to Sections 1777.5, 1777.6 and 1777.7 of the California Labor Code.
- (b) Information relative to apprenticeship standards, wage schedules, and other requirements may be obtained from the Director of Industrial Relations, ex officio the Administrator of Apprenticeship, San Francisco, California, or from the Division of Apprenticeship Standards and its branch offices.

- (c) Knowing violations of Section 1777.5 will result in forfeiture not to exceed one hundred dollars (\$100) for each calendar day of non-compliance pursuant to Section 1777.7.

A-14 HOURS OF WORK

Eight (8) hours of work in any calendar day shall constitute a legal day's work. The Contractor and each subcontractor shall forfeit, as penalty to the City, twenty-five dollars (\$25) for each worker employed in the execution of work on the Project by the Contractor or any subcontractor under him for each calendar day during which such worker is required or permitted to work more than eight (8) hours in any one calendar day and forty (40) hours in any calendar week in violation of the provisions of the Labor Code, and in particular, Section 1810 to Section 1815, thereof, inclusive, except that work performed by employees of the Contractor and his subcontractors in excess of eight hours per day at not less than one and one half times the basic rate of pay, as provided in Labor Code section 1815.

A-15 PAYROLL RECORDS

Pursuant to Labor Code section 1776, as amended from time to time, the Contractor and each subcontractor shall keep records showing the name, address, social security number, work classification, straight time and overtime hours paid each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker or other employee employed by him or her in connection with the work. The certified payroll records shall be on forms provided by the Division of Labor Standards Enforcement or shall contain the same information as the forms provided by the Division.

The payroll records shall be certified and shall be available for inspection at all reasonable hours at the principal office of the Contractor on the following basis:

- (a) A certified copy of the employee's payroll records shall be made available for inspection or furnished to such employee or his or her authorized representative on request.
- (b) A certified copy of all payroll records shall be made available for inspection or furnished upon request, or as required by Labor Code section 1771.7 to the City, the Division of Labor Standards Enforcement and the Division of Apprenticeship Standards of the Department of Industrial Relations.
- (c) A certified copy of all payroll records shall be made available upon request to the public for inspection or copies thereof made; provided, however, that if request by the public shall be made through either the City, the Division of Apprenticeship Standards, or the Division of Labor Standards Enforcement, if as requested, payroll records have been provided pursuant to paragraph (b), the requesting party shall, prior to being provided the records, reimburse the cost of preparation by the Contractor, subcontractors and the entity through which the

CONSTRUCTION CONTRACT

request was made. The public shall not be given access to such records at the principal office of the Contractor.

The Contractor shall file a certified copy of the payroll records with the entity that requested such records within ten (10) calendar days after receipt of a written request.

Any copy of records made available for inspection as copies and furnished upon request to the public or the City, the Division of Apprenticeship Standards, or the Division of Labor Standards Enforcement, shall be marked or obliterated in such a manner as to prevent disclosure of an individual's name, address, and social security number. The name and address of the Contractor or any subcontractor performing work on the Project shall not be marked or obliterated.

The Contractor shall inform the City of the location of the payroll records, including the street address, city and county, and shall, within five (5) calendar days, provide a notice of a change of location and address.

In the event of noncompliance with the requirements of this section, the Contractor shall have ten (10) calendar days in which to comply subsequent to receipt of written notice specifying in what respects the Contractor must comply with this section. Should noncompliance still be evident after such ten (10) calendar day period, the Contractor shall, as a penalty to the City, forfeit one hundred dollars (\$100) for each calendar day, or portion thereof, for each worker until strict compliance is effectuated. Upon the request of the Division of Labor Standards Enforcement, such penalties shall be withheld from payments due Contractor.

A-16 PREVAILING WAGES

- (a) The Contractor is aware of the requirements of California Labor Code Sections 1720 *et seq.* and 1770 *et seq.*, as well as California Code of Regulations, Title 8, section 16000 *et seq.* ("Prevailing Wage Laws") which require the payment of prevailing wage rates and the performance of other requirements on certain "public works" and "maintenance" projects. Since this Contract involves an applicable "public works" or "maintenance" project, as defined by the Prevailing Wage Laws, and since the total compensation is \$1,000 or more, Contractor agrees to fully comply with such Prevailing Wage Laws. The Contractor shall obtain a copy of the prevailing rates of per diem wages applicable to the work to be performed by subcontractors from the website of the Division of Labor Statistics and Research of the Department of Industrial Relations located at <http://www.dir.ca.gov/dlsr/PWD/index.htm>. In the alternative, the City shall provide Contractor with a copy of the prevailing rates of per diem wages applicable to the work to be performed by subcontractors. Contractor shall make copies of the prevailing rates of per diem wages for each craft, classification or type of worker needed to perform work on the Project available to interested parties upon request, and shall post copies at the Contractor's principal place of business and at the Project site. Contractor shall defend, indemnify and hold the

City, its elected officials, officers, employees and agents free and harmless from any claims, liabilities, costs, penalties or interest arising out of any failure or allege failure to comply with the Prevailing Wage Laws.

- (b) The Contractor and each subcontractor shall forfeit as a penalty to the City not more than two hundred dollars (\$200) for each calendar day, or portion thereof, for each worker paid less than the stipulated prevailing rate for any work done by him, or by any subcontract under him, in violation of the provisions of the California Labor Code. The difference between such stipulated prevailing wage rate and the amount paid to each worker for each calendar day or portion thereof for which each worker was paid less than the stipulated prevailing wage rate shall be paid to each worker by the Contractor.

A-17 SEVERABILITY

A-18 NOTHING CONTAINED IN THE CONTRACT SHALL BE CONSTRUED SO AS TO REQUIRE THE COMMISSION OF ANY ACT CONTRARY TO LAW. SHOULD A CONFLICT ARISE BETWEEN ANY PROVISION CONTAINED HEREIN AND ANY PRESENT OR FUTURE STATUTE, LAW, ORDINANCE OR REGULATION CONTRARY TO WHICH THE PARTIES HAVE NO LEGAL RIGHT TO CONTRACT OR ACT, THE LATTER SHALL PREVAIL AND THE PROVISION OF THIS CONTRACT WHICH IS AFFECTED SHALL BE CURTAILED AND LIMITED BUT ONLY TO THE EXTENT NECESSARY TO BRING IT WITHIN THE REQUIREMENTS OF THE LAW. IF SUCH CURTAILMENT OR LIMITATION IS NOT POSSIBLE, THE AFFECTED PROVISION SHALL BE OF NO FORCE AND EFFECT. EXCEPT AS AFORESAID, SUCH ILLEGALITY SHALL NOT AFFECT THE VALIDITY OF THIS CONTRACT.

DEBARRED SUBCONTRACTORS

Contractor shall not perform work on the project with a subcontractor who is ineligible to perform work on the project pursuant to Labor Code sections 1777.1 or 1777.7.

A-19 CONTRACTOR'S LIABILITY INSURANCE

(a) Time for Compliance. Contractor shall not commence work under this Contract until it has provided evidence satisfactory to the City that it has secured all insurance required under this section. In addition, Contractor shall not allow any subcontractor to commence work on any subcontract until it has provided evidence satisfactory to the City that the subcontractor has secured all insurance required under this section.

(b) Minimum Requirements. Contractor shall, at its expense, procure and maintain for the duration of the Contract insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the Contractor, its agents, representatives, employees or subcontractors. Contractor shall also

CONSTRUCTION CONTRACT

require all of its subcontractors to procure and maintain the same insurance for the duration of the Contract. Such insurance shall meet at least the following minimum levels of coverage:

(i) Minimum Scope of Insurance. Coverage shall be at least as broad as the latest version of the following: (1) General Liability: Insurance Services Office Commercial General Liability coverage (occurrence form CG 0001); (2) Automobile Liability: Insurance Services Office Business Auto Coverage form number CA 0001, code 1 (any auto); (3) Workers' Compensation and Employer's Liability: Workers' Compensation insurance as required by the State of California and Employer's Liability Insurance; and (4) Builders'/All Risk: Builders'/All Risk insurance covering for all risks of loss, including explosion, collapse, underground excavation and removal of lateral support (and including earthquakes and floods if requested by the City).

(ii) Minimum Limits of Insurance. Contractor shall maintain limits no less than: (1) General Liability: \$2,000,000 per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with a general aggregate limit is used including, but not limited to, form CG 2503, either the general aggregate limit shall apply separately to this Contract/location or the general aggregate limit shall be twice the required occurrence limit; (2) Automobile Liability: \$1,000,000 per accident for bodily injury and property damage; (3) Workers' Compensation and Employer's Liability: Workers' compensation limits as required by the Labor Code of the State of California. Employer's Liability limits of \$1,000,000 per accident for bodily injury or disease; and (4) Builders'/All Risk: Completed value of the project.

(c) Insurance Endorsements. The insurance policies shall contain the following provisions, or Contractor shall provide endorsements on forms supplied or approved by the City to add the following provisions to the insurance policies:

(i) General Liability. (1) The City, its officials, officers, employees, agents and volunteers shall be covered as additional insureds with respect to the work or operations performed by or on behalf of the Contractor, including materials, parts or equipment furnished in connection with such work; (2) the insurance coverage shall be primary insurance as respects the City, its officials, officers, employees, agents and volunteers, or if excess, shall stand in an unbroken chain of coverage excess of the Contractor's scheduled underlying coverage. Any insurance or self-insurance maintained by the City, its directors, officials, officers, employees, agents and volunteers shall be excess of the Contractor's insurance and shall not be called upon to contribute with it.

(ii) Automobile Liability. (1) The City, its officials, officers, employees, agents and volunteers shall be covered as additional insureds with respect to the ownership, operation, maintenance, use, loading or unloading of any auto owned, leased, hired or borrowed by the Contractor or for which the Contractor is responsible; and (2) the insurance coverage shall be primary insurance as respects the City, its officials, officers, employees, agents and volunteers, or if excess, shall stand in an unbroken chain of coverage excess of the Contractor's scheduled underlying coverage. Any insurance or self insurance maintained by the City, its officials,

CONSTRUCTION CONTRACT

officers, employees, agents and volunteers shall be excess of the Contractor's insurance and shall not be called upon to contribute with it in any way.

(iii) Workers' Compensation and Employer's Liability Coverage. The insurer shall agree to waive all rights of subrogation against the City, its officials, officers, employees, agents and volunteers for losses paid under the terms of the insurance policy which arise from work performed by the Contractor.

(iv) All Coverages. Each insurance policy required by this Contract shall be endorsed to state that: (1) coverage shall not be suspended, voided, reduced or canceled except after thirty (30) days prior written notice by certified mail, return receipt requested, has been given to the City; and (2) any failure to comply with reporting or other provisions of the policies, including breaches of warranties, shall not affect coverage provided to the City, its officials, officers, employees, agents and volunteers.

(d) Builders'/All Risk Policy Requirements. The builders'/all risk insurance shall provide that the City be named as loss payee. In addition, the insurer shall waive all rights of subrogation against the City.

(e) Separation of Insureds; No Special Limitations. All insurance required by this Section shall contain standard separation of insureds provisions. In addition, such insurance shall not contain any special limitations on the scope of protection afforded to the City, its officials, officers, employees, agents and volunteers.

(f) Professional Liability Insurance. All architects, engineers, consultants or design professionals retained by Contractor, if any, shall also procure and maintain, for a period of five (5) years following completion of the Contract, errors and omissions liability insurance with a limit of not less than \$1,000,000 per occurrence.

(g) Deductibles and Self Insurance Retentions. Any deductibles or self insured retentions must be declared to and approved by the City. Contractor shall guarantee that, at the option of the City, either: (1) the insurer shall reduce or eliminate such deductibles or self insured retentions as respects the City, its officials, officers, employees, agents and volunteers; or (2) the Contractor shall procure a bond guaranteeing payment of losses and related investigation costs, claims and administrative and defense expenses.

(h) Acceptability of Insurers. Insurance is to be placed with insurers with a current A.M. Best's rating no less than A:VIII, licensed to do business in California, and satisfactory to the City.

(i) Verification of Coverage. Contractor shall furnish the City with original certificates of insurance and endorsements effecting coverage required by this Contract on forms satisfactory to the City. The certificates and endorsements for each insurance policy shall be signed by a person authorized by that insurer to bind coverage on its behalf, and shall be on forms supplied or approved by the City. All certificates and endorsements must be received and

approved by the City before work commences. The City reserves the right to require complete, certified copies of all required insurance policies, at any time.

(j) Subcontractors. All subcontractors shall meet the requirements of this Section before commencing work. In addition, Contractor shall include all subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverages for subcontractors shall be subject to all of the requirements stated herein.

(k) Reporting of Claims. Contractor shall report to the City, in addition to Contractor's insurer, any and all insurance claims submitted by Contractor in connection with the work under this Contract.

A-20 INDEMNIFICATION

To the fullest extent allowed by law, Contractor shall defend (with counsel of City's choosing), indemnify and hold the City, its officials, officers, agents, employees, and representatives free and harmless from any and all claims, demands, causes of action, costs, expenses, liabilities, losses, damages or injuries, in law or in equity, to property or persons, including wrongful death, regardless of whether the allegations are false, fraudulent, or groundless, arising out of or incident to any acts, omissions or willful misconduct of Contractor, its officials, officers, employees, agents, consultants and subcontractors, arising out of or in connection with the work required to be performed hereunder or this Contract, including claims made by subcontractors for nonpayment, and including without limitation the payment of all consequential damages and attorneys' fees and other related costs and expenses. Contractor shall defend, at Contractor's own cost, expense and risk, with counsel of City's choosing, any and all such suits, actions or other legal proceedings of every kind that may be brought or instituted against City, its officials, officers, agents, employees and representatives. Contractor shall pay and satisfy any judgment, award or decree that may be rendered against City, its officials, officers, employees, agents, employees and representatives, in any such suit, action or other legal proceeding. Contractor shall reimburse City, its officials, officers, agents, employees and representatives for any and all legal expenses and costs incurred by each of them in connection therewith or in enforcing the indemnity herein provided. The only limitations on this provision shall be those imposed by Civil Code Section 2782.

A-21 WORKERS' COMPENSATION CERTIFICATION

Contractor represents that Contractor has secured the payment of workers' compensation insurance in compliance with the provisions of the Labor Code of the State of California and during the performance of this work will continue to provide workers' compensation insurance. Contractor shall supply the City with certificates of insurance evidencing that workers' compensation insurance is in effect and providing that the City will receive thirty (30) days prior written notice of cancellation. If Contractor self-insures workers' compensation, a Certificate of Consent to Self-Insure must be provided to the City. By executing this Contract, Contractor certifies as follows:

“I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers’ compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract.”

A-22 PERFORMANCE BOND AND PAYMENT BOND

Contractor shall provide City with a payment bond in accordance with Civil Code section 9550. The payment bond shall be in an amount of one hundred percent (100%) of the Contract Sum to insure the payment of all obligations incurred by Contractor in connection with the work of the Contract. The bond shall be in the form set forth in the attached Exhibit “A” (Payment Bond) or in such other form as the City may prescribe and with such sureties as may be agreeable to the parties. Contractor shall deliver the payment bond at the time of the execution of this Contract.

A-23 SUBSTITUTION OF SECURITIES

(a) Consistent with the California Public Contract Code, Section 22300, Contractor may substitute securities for any moneys withheld by the City to ensure performance under the Contract. At the request and expense of Contractor, securities equivalent to the amount to be withheld shall be deposited with the City, or with a state or federally chartered bank in California as the escrow agent, who shall then pay those moneys to Contractor. Upon satisfactory completion of the Contract, the securities shall be returned to Contractor.

(b) Alternatively, Contractor may request and the City shall make payment of retentions earned directly to the escrow agent at the expense of Contractor. At the expense of Contractor, Contractor may direct the investment of the payments into securities and Contractor shall receive the interest earned on the investments upon the same terms provided for in this Article for securities deposited by Contractor. Upon satisfactory completion of the Contract, Contractor shall receive from the escrow agent all securities, interest, and payments received by the escrow agent from the City, pursuant to the terms of this Article. Contractor shall pay to each subcontractor, not later than twenty (20) days of receipt of the payment, the respective amount of interest earned, net of costs attributed to retention withheld from each subcontractor, on the amount of retention withheld to insure the performance of Contractor.

(c) Securities eligible for investment hereunder shall include those listed in California Government Code section 16430, bank or savings and loan certificates of deposit, interest bearing demand deposit accounts, standby letters of credit, or any other security mutually agreed to by Contractor and the City. Contractor shall be the beneficial owner of any securities substituted for moneys withheld and shall receive any interest thereon according to Public Contracts Code section 22300.

A-24 TERMINATION

(a) The City may terminate the Contract if the Contractor:

CONSTRUCTION CONTRACT

- (i) Persistently or repeatedly refuses or fails to supply enough properly skilled workers or proper materials;
- (ii) Fails to make payment to subcontractors or suppliers for materials or labor;
- (iii) Persistently disregards laws, ordinances, rules, regulations, or orders of a public authority having jurisdiction;
- (iv) Refused or fails to prosecute the work or any separable part thereof with such diligence that will ensure its completion within the Contract time specified, or any extension thereof, or fails to complete said work within such time;
- (v) Is adjudged bankrupt, or makes a general assignment for the benefit of Contractor's creditors, or makes an assignment for any other reason without the express written consent of the City, or has a receiver appointed on account of Contractor's insolvency;
- (vi) Persistently disregards instructions of the City, or the City's inspector;
- (vii) Performs, or allows any subcontractors to perform, work in a negligent or dangerous manner;
- (viii) Installs or constructs, or allows any subcontractor to install or construct, any portion of the work so that the work does not comply with the drawings or specifications;
- (ix) Does not meet generally recognized industry standards for workmanlike quality;
or
- (x) Otherwise is in substantial breach of a provision of the Contract.

(b) Notwithstanding any other provisions of the Contract, the City, at any time and in its sole and absolute discretion, may terminate the work and services of the Contractor in whole or in part for the City's convenience and without cause, effective upon written notice thereof to the Contractor. In the event of such termination for convenience, Contractor shall be entitled to an equitable portion of the Contract Price, not to exceed the percentage of the work properly completed before the effective date of termination and accepted by the City multiplied by the Contract Price, less the total of all payments already made to Contractor. If such equitable amount is less than the amount already paid by the City to the Contractor under the Contract, Contractor shall promptly reimburse the City for the difference. Notwithstanding any other provisions of the Contract, the City also may, without cause, order the Contractor in writing to suspend the work in whole or in part for such period of time as the City may determine. An adjustment shall be made for reasonable increases in the cost of performance of the Contract, if any, which are proximately caused by the suspension. However, no adjustment shall be made to the extent that performance would have been suspended in any case by another cause for which the Contractor is responsible, or the Contractor files a claim for delay under another provision of

the Contract. The provisions of this paragraph are in addition to and not in limitation of any other rights and remedies available to the City.

A-25 RESOLUTION OF CLAIMS

(a) This Contract is subject to Public Contract Code sections 20104 through 20104.8, inclusive. Specifically, claims for three hundred seventy-five thousand dollars (\$375,000) or less which arise between the Contractor and the City shall be resolved as set forth in this Article.

(b) As used in this Article, “claim” means a separate demand by the Contractor for:

(i) A time extension;

(ii) Payment of money or damages arising from work done by or on behalf of the Contractor pursuant to this Contract and payment of which is not otherwise expressly provided for or the claimant is not otherwise entitled to; or

(iii) An amount the payment of which is disputed by the City.

(c) For any claim subject to this Article, the following requirements shall apply:

(i) The claim shall be in writing and include the documents necessary to substantiate the claim. Claims must be filed on or before the date of the final payment. This provision shall not extend the time limit or otherwise supersede notice requirements set forth in other provisions of the Contract.

(ii) For claims of less than fifty thousand dollars (\$50,000), the City shall respond in writing to any written claim within forty-five (45) days receipt of the claim, or may request, in writing, within thirty (30) days of receipt of the claim, any additional documentation supporting the claim or relating to defenses to the claim the City may have against the claimant. If additional information is thereafter required, it shall be requested and provided upon mutual agreement by the City and the claimant. The City’s written response to the claim, as further documented, shall be submitted to the claimant within fifteen (15) days after receipt of the further documentation or within a period of time no greater than that taken by the claimant in producing the additional information, whichever is greater.

(iii) For claims over fifty thousand dollars (\$50,000) and less than or equal to three hundred seventy-five thousand dollars (\$375,000), the City shall respond in writing to all written claims within sixty (60) days of receipt of the claim or may request, in writing, within thirty (30) days receipt of the claim, any additional documentation supporting the claim or relating to defenses to the claim the City may have against the claimant. If addition information is thereafter required, it shall be requested and provided upon mutual agreement of the City and the claimant. The City’s written response to the claim as further documented shall be submitted to the claimant within thirty (30) days after receipt of the further documentation or with a period of

time no greater than that taken by the claimant in producing the additional information or requested documentation, whichever is greater.

(iv) If the claimant disputes the City's written response, or the City fails to respond within the time prescribed, the claimant may so notify the City in writing either within fifteen (15) days of the receipt of the City's response or within fifteen (15) days of the City's failure to respond within the time prescribed respectively, and demand an informal conference to meet and confer for settlement of the issues in dispute. Upon a demand, the City shall schedule a meet and confer conference within thirty (30) days.

(v) Following the meet and confer conference, if the claim or any portion remains in dispute, the claimant may file a claim as provided in Government Code section 900 et seq.

(vi) If claimant's claim is not resolved pursuant to his/her filing of the claim pursuant to Government Code section 900 et seq., claimant may proceed with a civil action which shall be governed by the provisions of Public Contract Code section 20104.4. Specifically, the court will submit the matter to non-binding mediation unless the City and claimant waive non-binding mediation and thereafter, if the matter remains in dispute, the case shall be submitted to judicial arbitration pursuant to Chapter 2.5 (commencing with section 1141.10) of Title 3 of Part 3 of the Code of Civil Procedure. The City shall pay interest at the legal rate on any arbitration award or judgment rendered pursuant to a claim within the meaning of Public Contract Code section 20104 in accordance with Public Contract Code section 20104.6.

(vii) The City shall pay any portion of a claim which is undisputed except as otherwise provided by this Contract or applicable law.

(d) Third-Party Claims. In accordance with Public Contract Code section 9201, the City will provide Contractor with timely notification of the receipt of any third-party claim, relating to the contract. The City is entitled to recover its reasonable costs incurred in providing such notification.

(e) In the event of a dispute between the City and Contractor as to an interpretation of any of the plans, specifications or other Contract, or as to the quality or sufficiency of material or workmanship, the decision of the City shall for the time being prevail and Contractor, without delaying the job, shall proceed as directed by the City without prejudice to a final determination by negotiation, arbitration or litigation in accordance with the provisions of the Contract.

A-26 CHANGES IN THE WORK

(a) Contractor and the City agree that changes in this Contract or in work to be done under the Contract shall become effective only when written in the form of a supplemental agreement or change order and approved and signed by the City and Contractor. It is specifically agreed that the City shall have the right to request any alterations, deviations, reductions or additions to the Contract, including without limitation the plans and specifications or any of them, and the amount of the cost thereof shall be added to or deducted from the amount of the

Contract Sum by fair and reasonable valuations. This Contract shall be held to be completed when the work is completed in accordance with the original plans and specifications amended by such changes. If the change order requires an extension of time, time for completion of the work shall be extended to the date specified in the change order. Contractor shall not be subject to any claims for liquidated damages for such period of time, but Contractor shall have no claim for any other compensation for any such delay. No such change or modification shall release or exonerate any surety upon any guarantee or bond given in connection with this Contract.

A-27 UTILITIES

(a) If the work involves utilities, this Contract shall provide for the removal, relocation and protection of utilities according to Government Code section 4215. As used in this Section, the word "utility" shall be understood to include tracks, overhead or underground wires, cables, pipelines, conduits, ducts, sewers or storm drains. As used in this Section, the term "construction interference" shall be understood to include any utility or service connection within the limits of excavation or over excavation required for the work under the Contract as shown or as ordered by the City or any utility or service connection located in the space which will be required by any of the work under the Contract.

(i) In the event a utility or service connection is required to be disturbed or removed to permit construction of a pipeline or other structure under the Contract, such disturbance or removal shall be done only with the approval of the City and following notification to the owner of the interfering utility or service connection. Any such utility or service connection removed or otherwise disturbed shall be constructed as promptly as possible in its original or other authorized location in a condition at least as good as prior to such removal or disturbance, subject to the inspection of the owner of same. The Contractor's responsibility under this Section to remove or replace utilities or service connections shall apply even in the event such damage or destruction occurs after backfilling or is not discovered until after completion of backfilling. The owner of the utility or service connection shall be notified immediately after damage or destruction occurs or is discovered.

(ii) During the performance of the work under this Contract, the owner of any utility affected by the work shall have the right to enter when necessary upon any portion of the work for the purpose of maintaining service and of making changes in or repairs to said utility.

(iii) The plans show the approximate positions of known utilities in the immediate vicinity of the work, but the City does not guarantee that all existing utilities are shown. Contractor, before commencing any excavation, shall ascertain, from records or otherwise, the existence, horizontal and vertical position, and ownership of all existing facilities and service connections. If Contractor discovers any utility in the line of the work which is not shown on the plans, it shall immediately notify the City of the existence of same. The City will not be liable for any consequences arising as a result of a service connection being incorrectly located in the field by the agency having jurisdiction over said service connection.

(iv) The City will pay for, as extra work, all costs involved in removing, relocating, protecting, supporting, repairing, maintaining or replacing a main or trunkline utility facility which actually constitutes a construction interference, when said utility is not shown with reasonable accuracy as an interference or is omitted from the plans; provided, however, that the City's obligation to repair damage to such a facility shall not extend to damage due to the failure of Contractor to use reasonable care. The City will also compensate Contractor for equipment on the project necessarily idled during and by reason of work necessitated by Plan ambiguities or omissions as specified hereinabove.

(v) The costs involved in removing, relocating, protecting, supporting, repairing, maintaining or replacing any utility or service connection other than those described herein shall be borne by Contractor.

(vi) Contractor shall not be assessed liquidated damages, if applicable, for failure to complete the work on time to the extent that such delay was caused by failure of the City or of the agency having jurisdiction over the utility to authorize or otherwise provide for the removal, relocation, protection, support, repair, maintenance or replacement of a main or trunkline utility facility described herein.

(vii) The City reserves the right, upon determination of the actual position of existing utilities and service connections, to make changes in alignment or grade of the City's pipelines when, by so doing, the necessity for relocation of existing utilities or service connections will be avoided. Such changes will be ordered in writing by the City.

(viii) In all cases the public utility shall have the sole discretion to perform repairs or relocation work or to permit Contractor to perform the same at a reasonable price.

A-28 CONTRACTORS' STATE LICENSE BOARD NOTICE

Contractors are required by law to be licensed and regulated by the Contractors' State License Board which has jurisdiction to investigate complaints against contractors if a complaint regarding a patent act or omission is filed within four (4) years of the date of the alleged violation. A complaint regarding a latent act or omission pertaining to structural defects must be filed within ten (10) years of the date of the alleged violation. Any questions concerning a contractor may be referred to the Registrar, Contractors' State License Board, P.O. Box 26000, Sacramento, California 95826.

A-29 COMPLETE AGREEMENT

This Contract supersedes any and all agreements, either oral or in writing, between the Parties with respect to the subject matter herein. Each party to this Contract acknowledges that no representation by any party which is not embodied herein or any other agreement, statement, or promise not contained in this Contract shall be valid and binding.

A-30 INTERPRETATION

- (a) The parties hereto acknowledge and agree that each has been given the opportunity to independently review this Contract with legal counsel, and/or has the requisite experience and sophistication to understand, interpret and agree to the particular language of the provisions of the Contract.
- (b) In the event of a controversy or dispute between the parties concerning the provisions herein, this document shall be interpreted according to the provisions herein and no presumption shall arise concerning the draftsmanship of such provision.

A-31 APPLICABLE LAW

- (a) The parties hereto understand and agree that the terms of this Contract, and its Exhibits, have been negotiated and executed within the State of California and shall be governed by and construed under the laws of the State of California.
- (b) In the event of a dispute concerning the terms of this Contract, the parties hereto expressly agree that the venue for any legal action shall be with the appropriate court in the County of Yolo, State of California.

A-32 ORDER OF AUTHORITY.

The documents which make up the complete Contract are intended to be fully cooperative and to be complementary. If Contractor observes that any documents are in conflict, the Contractor shall promptly notify the City in writing. In case of conflicts between the documents which make up the complete Contract, the order of precedence shall be as follows:

- 1. Change Orders or Work Change Directives
- 2. Addenda
- 3. Special Conditions
- 4. Technical Specifications
- 5. Working Details and Plans (Contract Drawings)
- 6. Construction Contract
- 7. Informal Bid Request for Proposals
- 8. Contractor's Bid Forms
- 9. California Building Codes

CONSTRUCTION CONTRACT

10. Standard Plans

With reference to the Drawings, the order of precedence shall be as follows:

1. Figures govern over scaled dimensions
2. Detail drawings govern over general drawings
3. Addenda or Change Order drawings govern over Contract Drawings
4. Contract Drawings govern over Standard Drawings
5. Contract Drawings govern over Shop Drawings

(g) Notices. All notices, certificates, or other communicates, hereunder shall be deemed given when delivered or mailed by first-class or registered mail, postage prepaid, to the parties at their respective places of business.

(h) Binding Effect. This Contract shall inure to the benefit of and shall be binding upon Contractor and the City and their respective successors and assigns.

(i) Severability. In the event any provision of this Contract shall be held invalid or unenforceable by a court of competent jurisdiction, such holding shall not invalidate or render unenforceable any other provision hereof.

(j) Amendments. The terms of this Contract shall not be waived, altered, modified, supplemented or amended in any manner whatsoever except by written agreement signed by the parties.

A-33 AUTHORITY TO EXECUTE

Each signatory to this Contract warrants that he or she is authorized to enter into this Contract on behalf of his or her principal.

IN WITNESS WHEREOF, three (3) identical counterparts of this Contract, each of which shall for all purposes be deemed an original thereof, have been duly executed by the parties hereinabove named, on the day and year first herein written.

DATED this _____ day of _____, 20__.

CONTRACTOR:

By: _____

CONSTRUCTION CONTRACT

Printed Name/Title: _____

CITY OF WOODLAND:

By: _____

Printed Name/Title: _____

ATTEST:

Ana B. Gonzalez, City Clerk

CONSTRUCTION CONTRACT

EXHIBIT "A"

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS that

WHEREAS, the City of Woodland (hereinafter designated as the "City"), by action taken or a resolution passed _____, 20_____ has awarded to _____ hereinafter designated as the "Principal," a contract for the work described as follows:

(the "Project"); and

WHEREAS, said Principal is required to furnish a bond in connection with said contract; providing that if said Principal or any of its Subcontractors shall fail to pay for any materials, provisions, provender, equipment, or other supplies used in, upon, for or about the performance of the work contracted to be done, or for any work or labor done thereon of any kind, or for amounts due under the Unemployment Insurance Code or for any amounts required to be deducted, withheld, and paid over to the Employment Development Department from the wages of employees of said Principal and its Subcontractors with respect to such work or labor the Surety on this bond will pay for the same to the extent hereinafter set forth.

NOW THEREFORE, we, the Principal and _____ as Surety, are held and firmly bound unto the City in the penal sum of _____ Dollars (\$ _____) lawful money of the United States of America, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that if said Principal, his or its subcontractors, heirs, executors, administrators, successors or assigns, shall fail to pay any of the persons named in Section 9100 of the Civil Code, fail to pay for any materials, provisions or other supplies, used in, upon, for or about the performance of the work contracted to be done, or for any work or labor thereon of any kind, or amounts due under the Unemployment Insurance Code with respect to work or labor performed under the contract, or for any amounts required to be deducted, withheld, and paid over to the Employment Development Department or Franchise Tax Board from the wages of employees of the contractor and his subcontractors pursuant to Section 18663 of the Revenue and Taxation Code, with respect to such work and labor the Surety or Sureties will pay for the same, in an amount not exceeding the sum herein above specified, and also, in case suit is brought upon this bond, all litigation expenses incurred by the City in such suit, including reasonable attorneys' fees, court costs, expert witness fees and investigation expenses.

This bond shall inure to the benefit of any of the persons named in Section 9100 of the Civil Code so as to give a right of action to such persons or their assigns in any suit brought upon this bond.

It is further stipulated and agreed that the Surety on this bond shall not be exonerated or released from the obligation of this bond by any change, extension of time for performance, addition,

CONSTRUCTION CONTRACT

alteration or modification in, to, or of any contract, plans, specifications, or agreement pertaining or relating to any scheme or work of improvement herein above described, or pertaining or relating to the furnishing of labor, materials, or equipment therefore, nor by any change or modification of any terms of payment or extension of the time for any payment pertaining or relating to any scheme or work of improvement herein above described, nor by any rescission or attempted rescission or attempted rescission of the contract, agreement or bond, nor by any conditions precedent or subsequent in the bond attempting to limit the right of recovery of claimants otherwise entitled to recover under any such contract or agreement or under the bond, nor by any fraud practiced by any person other than the claimant seeking to recover on the bond and that this bond be construed most strongly against the Surety and in favor of all persons for whose benefit such bond is given, and under no circumstances shall Surety be released from liability to those for whose benefit such bond has been given, by reason of any breach of contract between the owner or the City and original contractor or on the part of any obligee named in such bond, but the sole conditions of recovery shall be that claimant is a person described in Section 9100 of the Civil Code, and has not been paid the full amount of his claim and that Surety does hereby waive notice of any such change, extension of time, addition, alteration or modification herein mentioned.

IN WITNESS WHEREOF, two (2) identical counterparts of this instrument, each of which shall for all purposes be deemed unoriginal thereof, have been duly executed by the Principal and Surety above named, on the _____ day of _____, 20____ the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative pursuant to authority of its governing body.

(Corporate Seal of Principal, _____

if corporation) Principal (Property Name of Contractor)

By _____
(Signature of Contractor)

(Seal of Surety) _____
Surety

By _____
Attorney in Fact

(Attached Attorney-In-Fact

Certificate _____ and _____ Required
Acknowledgements)

*Note: Appropriate Notarial Acknowledgments of Execution by Contractor and surety and a power of Attorney MUST BE ATTACHED.

NOTE: If Contractor is a partnership, all parties must execute the Bond.

IMPORTANT: Surety companies executing bonds must be acceptable to the City and meet all of the State of California bonding requirements, as defined in Code of Civil Procedure section 995.120, and is authorized by the State of California, and all documents required by Code of Civil Procedure section 995.660, to the extent required by law.

CONSTRUCTION CONTRACT

NOTARY ACKNOWLEDGMENT

(California All-Purpose Acknowledgment)

STATE OF CALIFORNIA)

)

COUNTY OF YOLO)

On _____, 20__ before me, _____, Notary Public,
personally appeared _____, who proved to me on the basis
of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within
instrument and acknowledged to me that he/she/they executed the same in his/her/their
authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or
the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the
foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature of Notary Public

(SEAL)

CONSTRUCTION CONTRACT

EXHIBIT “B”

PROJECT FINANCE SCHEDULE

5-Year Term in Advance

Acquisition Cost: \$147,720
Mode: Annual in Advance (first payment upon closing)
Rate: 3.11%

Payment Number	Payment Date	Payment	Interest	Principle
Lease Payment 1	2/2014	\$31,380.77	\$0.00	\$31,380.77
Lease Payment 2	2/2016	\$31,380.77	\$3,618.15	\$27,762.62
Lease Payment 3	2/2017	\$31,380.77	\$2,754.73	\$28,626.04
Lease Payment 4	2/2018	\$31,380.77	\$1,864.46	\$29,516.31
Lease Payment 5	2/2019	\$31,380.77	\$946.51	\$30,434.26
GRAND TOTALS		\$156,903.85	\$9,183.85	\$147,720.00

RESOLUTION NO. _____

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF WOODLAND REJECTING THE BID RECEIVED FROM COOPER OATES AS NONRESPONSIVE AND APPROVING A CONTRACT WITH AMERICAN CHILLER SERVICES, INC. FOR REPLACING THE POLICE DEPARTMENT CHILLER

WHEREAS, the City of Woodland (“City”) requested bids for its police department chiller project;

WHEREAS, the City received bids from three firms for the work;

WHEREAS, Cooper Oates Air Conditioning (“Cooper Oates”) did not provide sufficient information relating to financing and project scheduling, which did not allow the City to compare the amounts bid by Cooper Oates with the two other bidders;

WHEREAS, the City desires to reject the bid received from Cooper Oates as non-responsive; and

WHEREAS, the City wishes to enter into a Contract with the low responsive, responsible bidder, American Chiller Services, Inc., for the replacement of the Police Department chiller; and

WHEREAS, the City Council wishes to approve the Contract and authorize its execution through the adoption of this Resolution.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF WOODLAND:

SECTION 1. That the City Council hereby rejects the bid received from Cooper Oates Air Conditioning as non-responsive and approves the Contract with American Chiller Services, Inc. The City Manager is hereby authorized and directed to execute the Contract, subject to City Attorney approval. The City Attorney is hereby authorized to make clarifying and confirming changes so long as the total dollar amount authorized in the Contract does not change.

SECTION 2. A copy of the Contract is available and on file in the City Clerk’s office, and is incorporated herein by reference and made a part of this Resolution.

PASSED AND ADOPTED this 18th day of February 2014, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

Marlin H. Davies, Mayor

APPROVED AS TO FORM:

Kara K. Ueda, City Attorney

ATTEST:

Ana Gonzalez, City Clerk

Legislation Details (With Text)

File #:	14-064	Version:	1	Name:	
Type:	Consent Item(s)	Status:		Agenda Ready	
File created:	2/13/2014	In control:		City Council	
On agenda:	2/18/2014	Final action:			
Title:	SUBJECT: Modifications to City Manager's Employment Agreement				
	Recommendation for Action: Staff recommends that the City Council approve the modifications to the City Manager's Employment Agreement as indicated.				
Sponsors:					
Indexes:					
Code sections:					
Attachments:	CM Employment Agreement				

Date	Ver.	Action By	Action	Result
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TO: THE HONORABLE MAYOR AND CITY COUNCIL

DATE: February 18, 2014

SUBJECT: Modifications to City Manager's Employment Agreement

Recommendation for Action: Staff recommends that the City Council approve the modifications to the City Manager's Employment Agreement as indicated.

Staff Contact

Ana Gonzalez, City Clerk - 530-661-5806, ana.gonzalez@cityofwoodland.org

Background

The changes to City Manager's employment agreement are as follows:

1. Extends the term of the Agreement until April 23, 2016, and continues to allow for automatic renewals and extensions for additional one year terms beginning on April 23, 2016.
2. Permits the City Manager to choose to either (a) have the City contribute \$300 per month to the City's deferred compensation plan pursuant to Internal Revenue Code section 457 ("457 Plan) or (b) have the City match the City Manager's contribution to the 457 Plan up to a maximum of two percent of the City Manager's base salary.
3. After December 31, 2014, the City's contribution towards the City Manager's health insurance will be equal to that which is provided to all other full-time miscellaneous mid-management City employees.

4. Provides that the City Manager may have up to 80 hours of accrued but unused vacation leave hours paid directly to him at his then-current rate of pay in lieu of time off provided that the City Manager has previously taken at least one consecutive week of vacation time off in the same year.
5. Adds certain required provisions as per new legislation.
6. There is no change in salary.

Prepared by: Ana Gonzalez, City Clerk

Kara K. Ueda, City Attorney

Attachment

EMPLOYMENT AGREEMENT

THIS AGREEMENT is between the City of Woodland, a municipal corporation (the “City”) and Paul Navazio (“Employee”). It is effective on the latest date next to the signatures on the last page (“the Effective Date”).

This Agreement is entered into on the basis of the following facts, among others:

- A. Employee was duly appointed by the City Council as the City Manager of the City beginning April 23, 2012, and has been serving in that capacity continuously since that date.
- B. The Parties entered into an Employment Agreement at that time, which was effective April 16, 2012.
- C. The City Council and Employee desire to continue this employment relationship, subject to the terms and conditions set forth in this new Agreement pertaining to compensation and benefits, performance evaluations, and related matters.

BASED UPON THE FOREGOING, THE CITY AND EMPLOYEE AGREE AS FOLLOWS:

- 1. Employee Appointed. The City appoints and employs Employee as City Manager, and Employee continues to accept the appointment and employment effective immediately.
- 2. Duties of Employee. Employee shall perform the duties established for the City Manager by State law, the Woodland Municipal Code, the City Manager job description, the directions of the City Council, or as otherwise provided by law, ordinance, or regulation.

(a) Full Energy and Skill. Employee shall faithfully, diligently, and to the best of Employee's abilities, perform all duties that may be required under this Agreement. Employee agrees that Employee has a duty of loyalty and a general fiduciary duty to the City. Employee shall devote the whole of Employee's working time, skill, experience, knowledge, ability, labor, energy, attention, and best effort exclusively to the City's business and affairs.

(b) No Conflict. Employee shall not engage in any employment, activity, consulting service, or other enterprise, for compensation or otherwise, which is actually or potentially in conflict with, inimical to, or which interferes with the performance of Employee's duties. Further, Employee shall not, during the term of this Agreement, individually, as a partner, joint venture, officer or shareholder, invest or participate in any business venture conducting business in the corporate limits of the City of Woodland.

(c) Outside Activities. The City Manager shall not spend more than 8 hours per month in teaching, consulting, expert witness testimony, speaking, or other non-City connected business for which compensation is paid without express prior consent of the City Council. City Manager will take personal leave (i.e. vacation time) for all outside activities of this nature.

(d) Hours of Work. The City Manager is an exempt employee but is expected to engage in those hours of work that are necessary to fulfill the obligations of the City Manager's position. The City Manager does not have set hours of work as the City Manager is expected to be available at all times. It is recognized that the City Manager must devote a great deal of time to the business of the City outside of the city's customary office hours, and to that end the City Manager's schedule of work each day and week shall vary in accordance with the work required to be performed and in accordance with any specific direction provided by the City Council.

3. (a) Term. The term of this Agreement shall be from the Effective Date through April 23, 2016, unless terminated earlier by either party in accordance with the provisions set forth in Paragraph 8 or by the event of the death or permanent disability of Employee.

(b) The Term of this Agreement shall automatically renew and extend for an additional one (1) year term beginning on April 23, 2016, and for an additional one (1) year term on each successive anniversary of that date, unless written notice not to renew and extend is given by City to Employee no later than six (6) months prior to the renewal date. If a renewal occurs under the provisions of the preceding sentence, the additional one (1) year term shall immediately be deemed part of the term of this Agreement for purposes of Section 8(d). If notice of non-renewal is given by City, the Agreement shall remain in effect for the remaining term and Employee will be expected to continue Employee's duties for the remainder of the Agreement term, unless the Agreement is terminated earlier under Paragraph 8 below. The parties expressly agree that notice of non-renewal shall not be deemed a termination triggering any severance payment whatsoever.

4. Annual Evaluation. Each year on or about the October 31st, or at a time mutually agreed upon by the City Council and Employee, the City Council shall conduct an evaluation of Employee's performance and provide guidance and direction regarding the City Council's goals and objectives which Employee shall be tasked with implementing.

5. Compensation.

(a) Salary. Employee shall receive the base annual salary of one hundred eighty-eight thousand Dollars (\$188,000), payable in this Agreement on a pro-rata basis in the same manner as all full time City employees, and subject to all applicable payroll taxes and withholdings.

(b) Annual Salary Adjustments. At the City Council's sole discretion, salary adjustments may be given to Employee at or around the time of the annual review and evaluation by the City Council.

(c) Deferred Compensation. Employer maintains a deferred compensation plan pursuant to Internal Revenue Code Section 457 ("the Plan"). At Employee's choice, Employer shall either: (i) contribute \$300 per month to the Plan on Employee's behalf, or (ii) match Employee's contribution to the Plan up to a maximum of two percent (2%) of Employee's base annual salary, and in either case such contributions shall be subject to the limitations and restrictions imposed by the Plan and by law.

6. Regular Benefits and Allowances. Upon commencing employment, Employer agrees to provide and pay the City allowance for vision, dental and comprehensive medical insurance for Employee and his/her dependents, if any, equal to that which is provided to all other full-time miscellaneous management employees of Employer, or in the event no such plan exists, to provide coverage for Employee and dependents. As of the effective date of this Agreement, the City contributes an amount equal to 90% of the third highest CalPERS Health plan through December 30, 2014. Thereafter, the City contribution toward health insurance shall be equal to that which is provided to all other full-time miscellaneous mid-management employees of Employer. Similarly, Employer agrees to put in force and to make required premium payments for short term and long term disability insurance coverage for Employee while this Agreement is in force. Employer shall also pay the amount due for term life insurance in an amount equal to \$50,000. Employee shall have the right to choose the beneficiary on such policies.

Employer agrees to enroll Employee into the California Public Employees Retirement System ("CalPERS") and shall pay the PERS Employer share. The Employee shall pay the

PERS employee share of 8%. Medical insurance in retirement for Employee and dependents will be equal to that which is provided to all other full-time miscellaneous management employees of Employer, depending on hire date.

7. Additional Benefits and Allowances. In addition to the benefits specified in section 4, Employee shall receive the following additional benefits and allowances.

(a) Vacation; Sick Leave

(i) Vacation. Employee shall accrue twenty (20) vacation days per year on a pro rated basis each pay period. Upon date of hire, 80 hours of vacation leave will be credited to Employee in addition to the annual accrual. If Employee has ten (10) years of service or less, Employee may carry an unused vacation leave balance of no more than thirty-four (34) vacation days (272 hours) past January 1st of each year. If Employee has more than ten (10) years of service, Employee may carry an unused vacation leave balance of no more than forty-four (44) days (352 hours) past January 1st of each year. Each calendar year, upon request, Employee may have up to eighty (80) hours of accrued but unused vacation leave hours paid directly to him at his then-current rate of pay in lieu of time off; provided Employee has previously taken at least one (1) consecutive week of vacation time off in the same year.

(ii) Sick Leave. Employee shall be allowed to use paid sick leave and be absent from work because of personal illness/injury or the illness/injury of immediate family members (as identified in California Labor Code section 233) for such time as is reasonably necessary or during otherwise unpaid medical leaves provided by law. Sick leave includes attendance at doctor's appointments or related medical activities. Employee shall accrue sick leave at the rate of one day (8 hours) per month. Upon initial date of hire, 80 hours of sick leave will be credited to Employee in addition to the annual accrual. Accrued Sick Leave is not eligible for a cash-out at any time by Employee and any remaining accrued Sick Leave at time of Employee's

retirement will be governed by the rules and restrictions as detailed in the then-existing PERS contract.

(b) Automobile. No vehicle or automobile allowance will be given as part of this Agreement, except to the extent allowed by the City's Travel policy, as it may be amended.

(c) Moving Expense Reimbursement.

(i) If the Employee agrees to establish residence and relocate within the corporate boundaries of the local government within eighteen (18) months of employment, and thereafter to maintain residence within the corporate boundaries of the local government, the City shall provide moving and relocation expenses.

(ii) Employee shall submit three (3) estimates of moving expenses obtained from separate and independent moving companies to Employer. Employer shall thereafter pay a lump sum payment in an amount equivalent to the lowest estimate submitted by Employee to reimburse Employee for expenses related to moving Employee, his family, and personal property from Davis, California to Woodland, California. Said moving expenses include packing, moving, storage costs, unpacking, and insurance charges.

8. Termination of Employment.

(a) No Property Interest. Employee understands and agrees that Employee has no constitutionally-protected property or other interest in Employee's employment as City Manager. Employee understands and agrees that Employee works at the will and pleasure of the City Council, and that Employee may be terminated, or asked to resign, at any time, with or without cause, by a majority vote of its members. Notice of termination shall be provided to the City Manager in writing. "Termination," as used in this Agreement, shall also include 1) a request that the City Manager resign; 2) a reduction in salary or other financial benefits of the City Manager in a significant amount which is inconsistent with a reduction in salary or financial benefits for employees in the executive management unit; 3) a material reduction in the powers and authority of the City Manager (excluding placement on paid administrative leave); or 4) the elimination of the City Manager's position. Any such notice of termination or act constituting termination shall be given at or effectuated at a duly noticed regular or special meeting of the City Council.

(b) Termination Immediately Before or Following City Council Election. No action by the City Council to terminate Employee, other than for gross mismanagement or an act of moral turpitude (as described in Section 8(e)), will be made within ninety (90) days either before a City Council election or immediately following a City Council election. Nothing in this paragraph alters the "at will" status of Employee's employment with City.

(c) Notice Required Of Employee. Employee may voluntarily terminate employment at any time by giving not less than sixty (60) days notice.

(d) Severance Pay. If Employee is asked to resign or is terminated as City Manager, then Employee shall be eligible to receive a cash payment equivalent to the sum of Employee's then-current monthly salary multiplied by nine (9) (or by the remaining number of

months in the Agreement, whichever is less) and the cash value, as determined by the City, of Employee's monthly non-salary COBRA-eligible benefits multiplied by nine (9) (or [pursuant to Government Code section 53260] by the remaining number of months in the Agreement, whichever is less). This cash payment will be made on a pro rated, monthly basis over the number of months involved, subject to termination of the severance requirement set forth below. Employee shall also be paid for any accrued, but unused, annual leave, but not accrued sick leave. Eligibility for such severance payment is expressly conditioned upon Employee's execution of (i) a waiver and release of any and all of Employee's claims against City, and (ii) a covenant not to sue. All normal payroll taxes and withholdings as required by law shall be made with respect to any amounts paid under this section. Employee expressly agrees to provide notice to the City within two (2) business days of accepting employment elsewhere, and the City's obligation to pay any severance benefit to Employee shall terminate upon Employee's acceptance of such alternative employment.

(e) Ineligibility for Severance Under Certain Conditions. If the termination of Employee is the result of gross mismanagement and/or an act or acts of moral turpitude, Employee shall not be paid any severance pay except as provided in the remainder of this subsection. In such an instance, Employee's sole remedy shall be a judicial action in declaratory relief to determine whether there was substantial evidence of gross mismanagement and/or an act or acts of moral turpitude. If the court determines there was not substantial evidence, Employee shall receive the severance pay provided in this subsection, but no other damages.

9. Statutory Requirements. This Agreement shall be deemed to incorporate by reference the provisions of Sections 53243 *et seq.* of the Government Code, as it may be amended or renumbered.

10. Payment of Expenses of Employment. The City shall pay the following usual and customary employment expenses.

(a) The cost of any fidelity or other bonds required by law for the City Manager.

(b) Subject to Section 9 of this agreement, the cost to defend and indemnify Employee to the full extent of the law as provided by the California Government Claims Act (Government Code §810 *et seq.*), or otherwise. Notwithstanding the foregoing, City's obligation to defend and indemnify Employee shall extend only to the entry of a final judgment by the trial court, and shall not extend to providing defense or indemnity in connection with an appeal of the judgment, unless otherwise specifically provided by law. City will determine, in its sole discretion, whether to compromise and settle any such claim or suit against Employee and the amount of any settlement or judgment rendered thereon.

(c) Subject to budget approval, reasonable dues for Employee's membership in professional organizations associated with the office of City Manager. The City will allow Employee reasonable time away from the City to participate in the annual conferences of these organizations.

(d) Subject to budget approval, the cost of attending conferences or other events (i.e. retirement dinners, out-of-town meetings, professional seminars, etc.) necessary for the proper discharge of Employee's duties. The City will not reimburse Employee for any expenses related to membership in service clubs.

11. Miscellaneous.

(a) Notices. Notices given under this Agreement shall be in writing and shall be:

(i) served personally; or

- (ii) sent by facsimile (provided a hard copy is mailed within one (1) business day); or
- (iii) delivered by first-class United States mail, certified, with postage prepaid and a return receipt requested; or
- (iv) Sent by Federal Express, or some equivalent private overnight delivery service.

Notices shall be deemed received at the earlier of actual receipt or three (3) days following deposit in the United States mail, postage prepaid. Notices shall be directed to the addresses shown below, provided that a party may change such party's address for notice by giving written notice to the other party in accordance with this subsection.

CITY:

City of Woodland
Attn: Mayor
300 First Street
Woodland, CA 95695
Phone: (530) 661-5800
Fax: (530) 661-5813

EMPLOYEE:

Paul Navazio
1204 Torrey Street
Davis, California 95618
Cell Phone: (530) 681-0311

- (b) Compliance with Government Code §§53243, 53243.1, & 53243.2.

If Employee is convicted of a crime involving an abuse of his office or position, all of the following shall apply:

- (i) if Employee is provided with administrative leave pay pending an investigation, Employee shall be required to fully reimburse the City for such amounts paid;

(ii) if the City pays for the criminal legal defense of Employee (which would be in its sole discretion, as it is not generally required to pay for a criminal defense), Employee shall be required to fully reimburse City such amounts paid; and

(iii) if this Agreement is terminated, any cash settlement related to the termination that Employee may receive from the City shall be fully reimbursed to the City or void if not yet paid to Employee.

For this subsection, “abuse of office or position” means either (1) an abuse of public authority, including waste, fraud, and violation of the law under color of authority, or (2) a crime against public justice, including but not limited to a crime described in Title 7 (commencing with Section 92) of Part 1 of the Penal Code.

(c) Entire Agreement/Amendment. This Agreement constitutes the entire understanding and agreement between the parties as to those matters contained in it, and supersedes any and all prior or contemporaneous agreements, representations and understandings of the parties, including the prior employment agreement effective April 16, 2012, which is specifically hereby rendered null and void. This Agreement may be amended at any time by mutual agreement of the parties, but any such amendment must be in writing, dated, and signed by the parties and attached hereto.

(d) Attorney's Fees. If any legal action or proceeding is brought to enforce or interpret this Agreement, the prevailing party, as determined by the court, shall be entitled to recover from the other party all reasonable costs and attorney's fees, including such fees and costs as may be incurred in enforcing any judgment or order entered in any such action.

Nothing in this subsection shall be read to prevent the parties from agreeing to some alternative method of dispute resolution. If such a method is agreed to, any final determination shall include an award of attorney's fees and costs by the presiding officer.

(e) Severability. In the event any portion of this Agreement is declared void, such portion shall be severed from this Agreement and the remaining provisions shall remain in effect, unless the result of such severance would be to substantially alter this Agreement or the obligations of the parties, in which case this Agreement shall be immediately terminated.

(f) Waiver. Any failure of a party to insist upon strict compliance with any term, undertaking, or condition of this Agreement shall not be deemed to be a waiver of such term, undertaking, or condition. To be effective, a waiver must be in writing, signed and dated by the parties.

(g) Representation by Counsel. The parties acknowledge and agree that they were, or had the opportunity to be, represented individually by legal counsel with respect to the matters that are the subject of this Agreement and that they are fully advised with respect to their respective rights and obligations resulting from signing this Agreement.

(h) Governing Law and Venue. This Agreement shall be governed by and construed in accordance with the laws of the State of California. Employee and City agree that venue for any dispute shall be in Yolo County, California.

(i) Section Headings. The headings on each of the sections and subsections of this Agreement are for the convenience of the parties only and do not limit or expand the contents of any such section or subsection.

(j) No Assignment. Employee may not assign this Agreement in whole or in part.

Dated: _____

CITY OF WOODLAND

By _____
Mayor

Dated: _____

EMPLOYEE

Employee

Attest:

City Clerk

Approved as to Form:

City Attorney

Legislation Details (With Text)

File #: 14-066 Version: 1 Name:
Type: Consent Item(s) Status: Agenda Ready
File created: 2/14/2014 In control: City Council
On agenda: 2/18/2014 Final action:
Title: SUBJECT: Consideration of Ballot Arguments

Recommendation for Action: Staff recommends that the City Council authorize the Council subcommittee, comprised of Vice Mayor Stallard and Council Member Hilliard, to draft ballot argument language for the quarter cent sales tax measure and to further authorize all Council Members to sign the ballot arguments that need to be filed with the City Clerk no later than 5:00PM on March 7, 2014.

Sponsors:

Indexes:

Code sections:

Attachments:

Date	Ver.	Action By	Action	Result
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TO: THE HONORABLE MAYOR AND CITY COUNCIL

DATE: February 18, 2014

SUBJECT: Consideration of Ballot Arguments

Recommendation for Action: Staff recommends that the City Council authorize the Council subcommittee, comprised of Vice Mayor Stallard and Council Member Hilliard, to draft ballot argument language for the quarter cent sales tax measure and to further authorize all Council Members to sign the ballot arguments that need to be filed with the City Clerk no later than 5:00PM on March 7, 2014.

Staff Contact

Ana Gonzalez, City Clerk - 530-661-5806, ana.gonzalez@cityofwoodland.org

Paul Navazio, City Manager

Legislation Details (With Text)

File #: 14-049 Version: 1 Name: Approve Continuation of SRF Process to Fund the Construction of the WDCWA Project Facilities
Type: Report of the City Manager Status: Agenda Ready
File created: 2/6/2014 In control: City Council
On agenda: 2/18/2014 Final action:
Title: SUBJECT: Approval of Non-Binding Notice of Application Approval (NOAA) for State Revolving Loan (SRF) to Fund the Construction of the Woodland-Davis Clean Water Agency (WDCWA) Project Facilities

Recommendation for Action: Staff recommends that the City Council:

- 1) authorize the City Manager to sign the California Department of Public Health's (CDPH) Notice of Application Approval (NOAA),
- 2) authorize the WDCWA to sign their NOAA for Woodland's share of the regional project, and
- 3) continue the process to seek low interest SRF funding from CDPH and the State Water Resource Control Board (SWRCB) to fund the Davis-Woodland Water Supply Project (DWWSP).

Sponsors:

Indexes:

Code sections:

Attachments: [Safe Drinking Water SRF NOAA for Project No. 5710006-009C](#)
[Safe Drinking Water SRF NOAA for Project No. 5710012-008C](#)

Date	Ver.	Action By	Action	Result
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TO: THE HONORABLE MAYOR AND CITY COUNCIL

DATE: February 18, 2014

SUBJECT: Approval of Non-Binding Notice of Application Approval (NOAA) for State Revolving Loan (SRF) to Fund the Construction of the Woodland-Davis Clean Water Agency (WDCWA) Project Facilities

Recommendation for Action: Staff recommends that the City Council:

- 1) authorize the City Manager to sign the California Department of Public Health's (CDPH) Notice of Application Approval (NOAA),
- 2) authorize the WDCWA to sign their NOAA for Woodland's share of the regional project, and
- 3) continue the process to seek low interest SRF funding from CDPH and the State Water Resource Control Board (SWRCB) to fund the Davis-Woodland Water Supply Project (DWWSP).

Staff Contact

Douglas Baxter, Project Manager, 530-661-5975, doug.baxter@cityofwoodland.org

Council Goal

- Support the Woodland-Davis Woodland Clean Water Agency to further the surface water project.

- Maintain and enhance infrastructure through reduced costs, greater efficiencies, and partnerships.
- Develop plans and funding strategies to address the long term needs of the community in planning for infrastructure.

Fiscal Impact

On December 31, 2013, CDPH approved two Safe Drinking Water State Revolving Loan Fund (SRF) applications for a total of \$143 million at a 1.7875 percent interest rate for a 20 year repayment term. These applications were for the City's cost to fully implement the surface water project. The original rate contemplated financing the project with conventional bonds. Interest rates for traditional utility revenue bond financing are currently around 4.5 percent.

Collectively, the very low SRF interest rates will allow the City to save more than \$100 million in overall financing costs for Woodland ratepayers over the long-term. This commitment from the CDPH assists us in our ongoing efforts to build the regional surface water project at the lowest possible cost to the City and its ratepayers.

The City has 60 days to respond to the CDPH offer. In the meantime, the City will continue to analyze all options for reducing project costs. The City will not finalize a decision on how to finance the project until the possibility of other low-interest loan and grant applications have been fully considered.

Overall, the Project Facilities will stay within the project's budget. The project budget is within the approved water rate structure. The rate structure provided for inflation adjustments consistent with the project's multi-year budget's cost estimate.

Background

The requested authorization will allow CDPH to continue to reserve the SRF money for our use. The City of Woodland will sign the NOAA acknowledgement and authorize the Woodland Davis Clean Water Agency (WDCWA) to sign the NOAA for Woodland's share of the DWWSP. These actions merely let CDPH know that the City is sincerely interested in the funds and asked that they continue to reserve these funds for our use. Neither of these actions are binding commitments to borrow money.

Effective September 15, 2009, the Cities of Davis and Woodland approved the Davis-Woodland Water Supply Project Authority Joint Powers Agreement, which created the WDCWA. A revision to this Agreement was approved by the Davis and Woodland City Councils on February 26, 2013. On July 30, 2013 the WDCWA received a proposal to design, build, and operate the new surface water supply project. After a detailed evaluation, that proposal was approved by Woodland-Davis Clean Water Agency on October 10, 2013.

On December 31, 2013, the California Department of Public Health (CDPH) approved two SRF applications for a total of \$143 million at a 1.7875 percent interest rate for a repayment term of 20 years. One of the CDPH SRF applications was for Woodland's share of the regional components of DWWSP in the amount of \$111,358,449. The other CDPH SRF application was for \$31,503,088 and was for the local improvements to bring the treated water into our water distribution system. The local improvements include: the east and west transmission mains, new water tank at David Douglass Park, and Well 28. Within 60 days of December 31, 2013 we need to let CDPH know that we want them to continue to reserve the funds for our use.

The City has also applied to the State Water Resource Control Board for Clean Water SRF funding. Currently, these funds are being offered at a rate of 2.1% for 30 years. The City of Woodland will continue to seek

approval of those Clean Water SRF loans so we can fully evaluate which funding source, or combination of funding sources is best for the City of Woodland and its rate payers.

Discussion

The City has continuously sought to construct and fund the project at the least cost to the City and its ratepayers. Project costs have been significantly reduced and SRF funding provides a means of reducing the project's financing cost.

The requested action will reserve CDPH SRF funding for Woodland's use and as an active funding option for Woodland's use to cover our cost for the DWWSP. By February 28, 2014, the City Manager needs to sign the NOAA's Terms and Conditions for the Woodland application and authorize the WDCWA's General Manager to sign the Terms and Conditions for the CDPH NOAA for Woodland's share of the regional water project improvement work. These non-binding and basic Terms and Conditions are attached. The Terms and Conditions do not commit either entity to borrow funds from CDPH, but does require CDPH to keep the funds reserved for our use. Subsequently, CDPH will provide a Funding Agreement which, once executed will obligate the City to repay the funding money borrowed from CDPH. This Funding Agreement will be brought to City Council for approval. CDPH wants to have the Funding Agreement finalized in this fiscal year.

Construction of the Project Facilities are scheduled to commence this summer and be completed by September of 2016 with water deliveries to the cities likely to begin by June 2016.

Commission/Committee Recommendation

The Water Utility Advisory Committee has been supportive of the Davis Woodland Water Supply Project provided that it is implemented in the most cost-effective manner possible and the project is not unduly delayed. This action is supportive of that goal. The Committee has been briefed on the CDPH SRF approvals. This approval provides for the project to continue to move forward in a timely and cost effective manner.

Conclusion

Staff recommends that the City Council authorize the City Manager to sign the California Department of Public Health's (CDPH) Notice of Application Approval (NOAA), authorize the WDCWA to sign their NOAA for Woodland's share of the project, and continue the process to seek low interest SRF funding from CDPH and the State Water Resource Control Board (SWRCB) to fund the Davis-Woodland Water Supply Project (DWWSP).

Prepared by: Douglas Baxter, Project Manager

Reviewed by: Brent Meyer, City Engineer
Ken Hiatt, Community Development Director



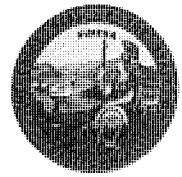
Paul Navazio, City Manager

Attachment: Safe Drinking Water SRF NOAA for Project No. 5710006-009C
Safe Drinking Water SRF NOAA for Project No. 5710012-008C



RON CHAPMAN, MD, MPH
Director & State Health Officer

State of California—Health and Human Services Agency
California Department of Public Health



EDMUND G. BROWN JR.
Governor

December 31, 2013

Mr. Paul Navazio
City Manager
City of Woodland
300 First Street
Woodland, CA 95695

**SAFE DRINKING WATER STATE REVOLVING FUND PROJECT FUNDING FOR
CITY OF WOODLAND, PROJECT NO. 5710006-009C**

Dear Mr. Navazio:

Your application for funding under the Safe Drinking Water State Revolving Fund (SDWSRF) has been reviewed by the California Department of Public Health (CDPH). We have determined that project number **5710006-009C**, as proposed by the **CITY OF WOODLAND** (Supplier), is eligible for construction funding.

This letter serves as our Notice of Acceptance of Application (NOAA). Funds in the amount of **\$31,503,088** have been reserved for the project provided the terms and conditions as set forth herein are met, and subject to the availability of funds.

Supplier represents that the total cost of the project is estimated to be **\$31,503,088** (Project Cost) of which State agrees that **\$31,503,088** is eligible for Safe Drinking Water State Revolving Fund financing.

The funding agreement when issued and executed will provide for a \$31,503,088 loan at a 1.7875 percent (1.7875%) interest rate and a 20-year loan repayment term.

Funding is contingent upon your timely compliance with all terms and conditions of this NOAA, including those set forth in the "CITY OF WOODLAND Project No. 5710006-009C SAFE DRINKING WATER STATE REVOLVING FUND NOTICE OF ACCEPTANCE OF APPLICATION TERMS AND CONDITIONS" (Terms and Conditions) attached hereto and incorporated herein by this reference. Compliance with NOAA obligations shall be determined at the sole discretion of CDPH or its authorized representative. Further, the final terms and conditions of the funding will be

memorialized in, and only become effective upon the execution of, a subsequent funding agreement between CDPH and Supplier.

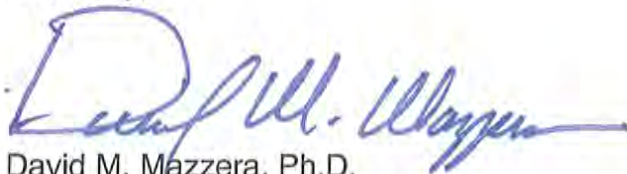
In order to maintain the reservation of funds in the SDWSRF account for the project, Supplier must sign the Terms and Conditions at the space provided and return it within 60 calendar days of receipt. **We have provided two originals. Please sign and return one original including this cover letter along with a completed and signed Water Measurement Law Self Certification (copy enclosed) within 60 calendar days to:**

California Department of Public Health
Division of Drinking Water and
Environmental Management
Safe Drinking Water State Revolving Fund Program
Attention: Anne Novak
Project Support Unit
1616 Capitol Avenue, MS 7418
Post Office Box 997377
Sacramento, California 95899-7377

Your signature will indicate your acceptance of the Terms and Conditions and your intention to proceed with the project, but does not constitute any obligation on your part to enter into the funding agreement. **Failure to sign and return the attachment to this Notice of Acceptance of Application within the time period will result in the withdrawal of the NOAA and the bypassing of the project.**

CDPH commends the City of Woodland for taking steps to enhance the provision and protection of the drinking water supplied to your consumers. If you have any questions regarding this NOAA, please contact your CDPH Regional Funding Coordinator Pete Stamas at (916) 552-9983.

Sincerely,



David M. Mazzera, Ph.D.
Acting Chief
Division of Drinking Water
and Environmental Management

cc: Honorable Mariko Yamada
Member of the Assembly
State Capitol, Room 5160
Sacramento, CA 94249-0004

Honorable Lois Wolk
Member of the Senate
State Capitol, Room 5114
Sacramento, CA 95814-4900

Richard Hinrichs, Regional Engineer
Division of Drinking Water and
Environmental Management
Region I
California Department of Public Health
364 Knollcrest Drive, Suite 101
Redding, CA 96002

Ali Rezvani, District Engineer
Sacramento District Office
Division of Drinking Water and
Environmental Management
California Department of Public Health
1616 Capitol Avenue, MS 7407
Sacramento, CA 95899

Pete Stamas, Regional Funding Coordinator
Division of Drinking Water and
Environmental Management
California Department of Public Health
1616 Capitol Avenue, MS 7407
Sacramento, CA 95899

Linda Ng, Chief
Safe Drinking Water Office, Room 816
Department of Water Resources
Post Office Box 942836
Sacramento, California 94236-0001

CITY OF WOODLAND
Project No. 5710006-009C

SAFE DRINKING WATER STATE REVOLVING FUND
NOTICE OF ACCEPTANCE OF APPLICATION
TERMS AND CONDITIONS

Unless otherwise expressly directed herein, all items must be submitted to the California Department of Public Health ("CDPH") at the following address:

California Department of Public Health
Division of Drinking Water and
Environmental Management
Safe Drinking Water State Revolving Fund Program
Attention: Anne Novak
Project Support Unit
1616 Capitol Avenue, MS 7418
Post Office Box 997377
Sacramento, California 95899-7377

****Copies of all documents referenced below are enclosed. You are encouraged to share these documents with your legal and financial advisor(s).***

Section I:

Prior to issuance of the funding agreement by CDPH for signature by the City of Woodland's ("Supplier") authorized representative, the following items must be provided:

Supplier must provide:

1. The identity of Supplier's Contract Manager.
2. Supplier's Data Universal Number System (DUNS) identification number. The DUNS number is a unique, nine digit identification number specific to Supplier and is a means of identifying business entities on a location specific basis. There is no charge for obtaining a DUNS number, which can be obtained online at <http://fedgov.dnb.com/webform/> or by phone at 1-866-705-5711.
3. A claims submittal schedule that assumes (1) Supplier must submit a reimbursement claim to CDPH for all eligible costs incurred prior to the date of execution of a funding agreement no later than ninety (90) days following such date of execution; and (2) Supplier must submit a reimbursement claim to CDPH for all eligible project costs incurred within one (1) month no later than sixty (60) days following such month.

CDPH must provide:

1. CDPH's final loan qualification review and CDPH's acceptance of such results.

All requirements under this **Section I** must be satisfied before a funding agreement will be issued by CDPH for signature by Supplier's authorized representative, and all such requirements must be satisfied no later than **April 18, 2014**. Failure to do so may result in the withdrawal of funding. Also, please be advised that any significant changes in the project design and/or budget subsequent to the issuance of the NOAA and prior to issuance of a funding agreement may be subject to further technical, environmental and financial review and approval by CDPH.

Section II:

Prior to final execution of the funding agreement by CDPH, the following items must be provided by Supplier:

1. Complete and sign a Payee Data Record (STD 204).
2. Complete and sign a Water Measurement Self-Certification.
3. Complete and sign a Highly Compensated Individuals Reporting Form.
4. Supplier shall certify to CDPH that it has complied with Title 40 CFR Part 34 "New Lobbying Requirements." Enclosed is an acceptable certification form which may be used to satisfy this requirement.

All items under this **Section II** must be provided to CDPH **before final execution of the funding agreement** by CDPH.

Failure to timely comply with the requirements of **Sections I and II** may result in a withdrawal of the Notice of Acceptance of Application ("NOAA"). Should this occur, the project will be bypassed but will remain on the project priority list. You may submit a new application for future funding only after receiving another letter of invitation from CDPH. If for any unforeseen reason you are unable to comply with any of the above requirements, you should contact your Regional Funding Coordinator as soon as possible.

The Terms and Conditions set forth in the Notice of Acceptance of Application dated December 31, 2013, including those set forth in this "CITY OF WOODLAND Project No. 5710006-009C SAFE DRINKING WATER STATE REVOLVING FUND NOTICE OF ACCEPTANCE OF APPLICATION TERMS AND CONDITIONS" are acceptable to **City of Woodland** and it is **City of Woodland's** intent to continue with the project as proposed.

City of Woodland

Signature: _____

Date: _____

Print Name: _____

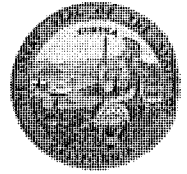
Title: _____

Address: _____



RON CHAPMAN, MD, MPH
Director & State Health Officer

State of California—Health and Human Services Agency
California Department of Public Health



EDMUND G. BROWN JR.
Governor

RECEIVED

JAN 07 2014

WOODLAND DAVIS
CLEAN WATER AGENCY

December 31, 2013

Mr. Dennis Diemer
General Manager
Woodland-Davis Clean Water Agency
1717 Fifth Street
Davis, CA 95616

**SAFE DRINKING WATER STATE REVOLVING FUND PROJECT FUNDING FOR
WOODLAND-DAVIS CLEAN WATER AGENCY, PROJECT NO. 5710012-008C**

Dear Mr. Diemer:

Your application for funding under the Safe Drinking Water State Revolving Fund (SDWSRF) has been reviewed by the California Department of Public Health (CDPH). We have determined that project number **5710012-008C**, as proposed by the **WOODLAND-DAVIS CLEAN WATER AGENCY** (Supplier), is eligible for construction funding.

This letter serves as our Notice of Acceptance of Application (NOAA). Funds in the amount of **\$111,358,449**, which constitutes the City of Woodland's proportional cost of the project, have been reserved for the project provided the terms and conditions as set forth herein are met, and subject to the availability of funds.

Supplier represents that the total cost of the project is estimated to be **\$206,819,449** (Project Cost) of which State agrees that **\$111,358,449** is eligible for Safe Drinking Water State Revolving Fund financing as the City of Woodland's proportional share of the Project Cost.

The funding agreement when issued and executed will provide for a \$111,358,449 loan at a 1.7875 percent (1.7875%) interest rate and a 20-year loan repayment term. Supplier's cost for the project is estimated to be **\$95,461,000**.

Funding is contingent upon your timely compliance with all terms and conditions of this NOAA, including those set forth in the "WOODLAND-DAVIS CLEAN WATER AGENCY Project No. 5710012-008C SAFE DRINKING WATER STATE REVOLVING FUND NOTICE OF ACCEPTANCE OF APPLICATION TERMS AND CONDITIONS" (Terms

and Conditions) attached hereto and incorporated herein by this reference. Compliance with NOAA obligations shall be determined at the sole discretion of CDPH or its authorized representative. Further, the final terms and conditions of the funding will be memorialized in, and only become effective upon the execution of, a subsequent funding agreement between CDPH and Supplier.

In order to maintain the reservation of funds in the SDWSRF account for the project, Supplier must sign the Terms and Conditions at the space provided and return it within 60 calendar days of receipt. **We have provided two originals. Please sign and return one original including this cover letter along with a completed and signed Water Measurement Law Self Certification (copy enclosed) within 60 calendar days to:**

California Department of Public Health
Division of Drinking Water and
Environmental Management
Safe Drinking Water State Revolving Fund Program
Attention: Anne Novak
Project Support Unit
1616 Capitol Avenue, MS 7418
Post Office Box 997377
Sacramento, California 95899-7377

Your signature will indicate your acceptance of the Terms and Conditions and your intention to proceed with the project, but does not constitute any obligation on your part to enter into the funding agreement. **Failure to sign and return the attachment to this Notice of Acceptance of Application within the time period will result in the withdrawal of the NOAA and the bypassing of the project.**

CDPH commends Woodland-Davis Clean Water Agency for taking steps to enhance the provision and protection of the drinking water supplied to your consumers. If you have any questions regarding this NOAA, please contact your CDPH Regional Funding Coordinator Pete Stamas at (916) 552-9983.

Sincerely,

A handwritten signature in dark ink, appearing to read "David M. Mazzer", with a long horizontal flourish extending to the right.

David M. Mazzer, Ph.D.
Acting Chief
Division of Drinking Water
and Environmental Management

cc: Honorable Mariko Yamada
Member of the Assembly
State Capitol, Room 5160
Sacramento, CA 94249-0004

Honorable Lois Wolk
Member of the Senate
State Capitol, Room 5114
Sacramento, CA 95814-4900

Richard Hinrichs, Regional Engineer
Division of Drinking Water and
Environmental Management
Region I
California Department of Public Health
364 Knollcrest Drive, Suite 101
Redding, CA 96002

Ali Rezvani, District Engineer
Sacramento District Office
Division of Drinking Water and
Environmental Management
California Department of Public Health
1616 Capitol Avenue, MS 7407
Sacramento, CA 95899

Pete Stamas, Regional Funding Coordinator
Division of Drinking Water and
Environmental Management
California Department of Public Health
1616 Capitol Avenue, MS 7407
Sacramento, CA 95899

Linda Ng, Chief
Safe Drinking Water Office, Room 816
Department of Water Resources
Post Office Box 942836
Sacramento, California 94236-0001

**WOODLAND-DAVIS CLEAN WATER AGENCY
Project No. 5710012-008C**

**SAFE DRINKING WATER STATE REVOLVING FUND
NOTICE OF ACCEPTANCE OF APPLICATION
TERMS AND CONDITIONS**

Unless otherwise expressly directed herein, all items must be submitted to the California Department of Public Health ("CDPH") at the following address:

California Department of Public Health
Division of Drinking Water and
Environmental Management
Safe Drinking Water State Revolving Fund Program
Attention: Anne Novak
Project Support Unit
1616 Capitol Avenue, MS 7418
Post Office Box 997377
Sacramento, California 95899-7377

****Copies of all documents referenced below are enclosed. You are encouraged to share these documents with your legal and financial advisor(s).***

Section I:

Prior to issuance of the funding agreement by CDPH for signature by the Woodland-Davis Clean Water Agency's ("Supplier") authorized representative, the following items must be provided:

Supplier must provide:

1. The identity of Supplier's Contract Manager.
2. Supplier's Data Universal Number System (DUNS) identification number. The DUNS number is a unique, nine digit identification number specific to Supplier and is a means of identifying business entities on a location specific basis. There is no charge for obtaining a DUNS number, which can be obtained online at <http://fedgov.dnb.com/webform/> or by phone at 1-866-705-5711.
3. An updated 10-year budget projection for Supplier that is satisfactory in form and substance to CDPH.
4. A claims submittal schedule that assumes (1) Supplier must submit a reimbursement claim to CDPH for all eligible costs incurred prior to the date of execution of a funding agreement no later than ninety (90) days following such date of execution; and (2) Supplier must submit a reimbursement claim to CDPH for all eligible project costs incurred within one (1) month no later than sixty (60) days following such month.

5. The estimated date for the court's order of possession of that certain outstanding easement known as parcel "P20", which is anticipated to provide access to a traverse crossing of the Yolo Shortline Railroad and allow the Supplier to construct the raw water pipeline.

CDPH must provide:

1. CDPH's final loan qualification review and CDPH's acceptance of such results.

All requirements under this **Section I** must be satisfied before a funding agreement will be issued by CDPH for signature by Supplier's authorized representative, and all such requirements must be satisfied no later than **April 18, 2014**. Failure to do so may result in the withdrawal of funding. Also, please be advised that any significant changes in the project design and/or budget subsequent to the issuance of the NOAA and prior to issuance of a funding agreement may be subject to further technical, environmental and financial review and approval by CDPH.

Section II:

Prior to final execution of the funding agreement by CDPH, the following items must be provided by Supplier:

1. Complete and sign a Payee Data Record (STD 204).
2. Complete and sign a Water Measurement Self-Certification.
3. Complete and sign a Highly Compensated Individuals Reporting Form.
4. Supplier shall certify to CDPH that it has complied with Title 40 CFR Part 34 "New Lobbying Requirements." Enclosed is an acceptable certification form which may be used to satisfy this requirement.

All items under this **Section II** must be provided to CDPH **before final execution of the funding agreement** by CDPH.

Failure to timely comply with the requirements of **Sections I and II** may result in a withdrawal of the Notice of Acceptance of Application ("NOAA"). Should this occur, the project will be bypassed but will remain on the project priority list. You may submit a new application for future funding only after receiving another letter of invitation from CDPH. If for any unforeseen reason you are unable to comply with any of the above requirements, you should contact your Regional Funding Coordinator as soon as possible.

The Terms and Conditions set forth in the Notice of Acceptance of Application dated December 31, 2013, including those set forth in this "WOODLAND-DAVIS CLEAN WATER AGENCY Project No. 5710012-008C SAFE DRINKING WATER STATE

REVOLVING FUND NOTICE OF ACCEPTANCE OF APPLICATION TERMS AND CONDITIONS" are acceptable to the **Woodland-Davis Clean Water Agency** and it is **Woodland-Davis Clean Water Agency's** intent to continue with the project as proposed.

Woodland-Davis Clean Water Agency

Signature: _____

Date: _____

Print Name: _____

Title: _____

Address: _____

Legislation Details (With Text)

File #: 14-029 Version: 1 Name:

Type: Consent Item(s) Status: Agenda Ready

File created: 1/28/2014 In control: City Council

On agenda: 2/18/2014 Final action:

Title: SUBJECT: Authorize the Aeration Retrofit Project CIP #12-02 for bidding, and approve resolutions required for the application of State Revolving Fund financing of the Aeration Project, Water Pollution Control Facility Improvements, and Pipeline Rehabilitation throughout the City of Woodland.

Recommendation for Action: Staff recommends that the City Council approve the Aeration Project Retrofit, CIP #12-02 design and bid package and authorize for bid advertisement. In addition, staff recommends that the City Council approve the following seven resolutions in support of the Project and State Revolving Fund (SRF) financing requirements.

1. Resolution No. for approval of the Mitigated Negative Declaration (MND) for improvements at the Water Pollution Control Facility (WPCF) and sewer pipeline rehabilitation projects throughout the City of Woodland for the next five years,
2. Resolution No. for sole sourcing various components of the Aeration Project,
3. Resolution No. for sole sourcing WPCF screen replacement equipment at the headworks.
4. Resolution No. for specifying Tesco as the subcontractor for work associated with providing and installing PLCs, programming, systems integration, wiring terminations at PLCs, SCADA integration etc.
5. Resolution No. for the City Manager to be (the "Authorized Representative") or designee to sign and file, for and on behalf of the City of Woodland, a Financial Assistance Application for a financing agreement from the State Water Resources Control Board for the planning, design, and construction of the City of Woodland 2014 WPCF Improvements and various sewer pipeline rehabilitation projects (the "Project"),
6. Resolution No. for Reimbursement of the SRF Expenditures paid prior to the issuance of the Obligations or the approval by the State Water Board of the Project Funds,
7. Resolution No. for the City of Woodland to dedicate and pledge Sewer Enterprise funds (Fund 220) to payment of any and all Clean Water State Revolving Fund Program financing for the improvements at the WPCF and sewer pipeline rehabilitation projects throughout the City of Woodland.

Sponsors:

Indexes:

Code sections:

Attachments: [Draft Mitigated Negative Declaration and Initial Study](#)
[Comments Received on Draft MND](#)
[Mitigation Monitoring and Reporting Program](#)
[Resolution to Adopt the Mitigated Negative Declaration](#)
[Resolution for Sole Sourcing Various Components of the Aeration Project](#)
[Resolution for Sole Sourcing WPCF Screen Replacement Equipment](#)
[Resolution for Specifying Tesco as the Subcontractor](#)
[Resolution to Designate the City Manager to be the Authorized Representative](#)
[Resolution for Reimbursement of the State Revolving Fund \(SRF\) Expenditures](#)
[Resolution to Dedicate and Pledge Sewer Enterprise Funds to Payment](#)

Date	Ver.	Action By	Action	Result
------	------	-----------	--------	--------

TO: THE HONORABLE MAYOR AND CITY COUNCIL

DATE: February 18, 2014

SUBJECT: Authorize the Aeration Retrofit Project CIP #12-02 for bidding, and approve resolutions required for the application of State Revolving Fund financing of the Aeration Project, Water Pollution Control Facility Improvements, and Pipeline Rehabilitation throughout the City of Woodland.

Recommendation for Action: Staff recommends that the City Council approve the Aeration Project Retrofit, CIP #12-02 design and bid package and authorize for bid advertisement. In addition, staff recommends that the City Council approve the following seven resolutions in support of the Project and State Revolving Fund (SRF) financing requirements.

1. Resolution No. for approval of the Mitigated Negative Declaration (MND) for improvements at the Water Pollution Control Facility (WPCF) and sewer pipeline rehabilitation projects throughout the City of Woodland for the next five years,
2. Resolution No. for sole sourcing various components of the Aeration Project,
3. Resolution No. for sole sourcing WPCF screen replacement equipment at the headworks.
4. Resolution No. for specifying Tesco as the subcontractor for work associated with providing and installing PLCs, programming, systems integration, wiring terminations at PLCs, SCADA integration etc.
5. Resolution No. for the City Manager to be (the “Authorized Representative”) or designee to sign and file, for and on behalf of the City of Woodland, a Financial Assistance Application for a financing agreement from the State Water Resources Control Board for the planning, design, and construction of the City of Woodland 2014 WPCF Improvements and various sewer pipeline rehabilitation projects (the “Project”),
6. Resolution No. for Reimbursement of the SRF Expenditures paid prior to the issuance of the Obligations or the approval by the State Water Board of the Project Funds,
7. Resolution No. for the City of Woodland to dedicate and pledge Sewer Enterprise funds (Fund 220) to payment of any and all Clean Water State Revolving Fund Program financing for the improvements at the WPCF and sewer pipeline rehabilitation projects throughout the City of Woodland.

Mark Cocke, Senior Civil Engineer, 530-661-5898, mark.cocke@cityofwoodland.org

Council Goal

Ensure that the City’s physical infrastructure is planned, funded, and maintained to provide for current and future community needs, in support of commercial, recreational, and environmental requirements and standards, while managing the overall cost consistent with available resources.

Fiscal Impact

The Aeration Retrofit Project is funded in the Capital Budget. The project cost is \$17,744,000. The Engineers Construction Estimate is \$14,876,000. A bid alternative for replacement of the Recycled Activated Sludge (RAS) Pumping Facility could add an additional \$1,965,000 to the construction cost. Project costs include a 10% construction contingency and soft costs. The present CIP budget is \$12.7 million, funded by the Sewer Enterprise Fund; this will need to be modified at construction contract award. The estimated project costs fit within the sewer rate structure with SRF financing. The preparation of the SRF application package is currently underway and is anticipated to be submitted immediately after council approval. It is anticipated that the City would receive a response on the SRF application in approximately 60 days after submittal. The timing of bidding and award of the project will be coordinated with the SRF program requirements. The project will not be awarded without SRF financing.

Utilizing a SRF loan to finance the projects identified below would provide for the construction of the upgrades and rehabilitation of the City of Woodland's sewer and wastewater treatment systems, and be consistent with the revenue capacity provided by previously approved sewer rates. The goal of obtaining SRF financing is to provide for the cash-flow needs of the City of Woodland's capital construction costs for the identified Project while minimizing existing and future financing costs and future sewer rate increases. The SRF loan application is anticipated to be approximately \$23,000,000. The final amount will be dependent on actual design, and construction costs. The anticipated costs of the other identified projects is approximately \$5,000,000. The SRF loan is anticipated to be a 30-year loan at a low interest rate, currently approximately 2%.

Background

The Capital Budget and Sewer Rate increase have identified four projects to maintain the WPCF rated capacity, meet present and future regulatory requirements, and maintain the City of Woodland's sewer collection system. In order to reduce the financing cost for implementation of these Projects, the City of Woodland is seeking SRF financing for these projects. The Aeration Retrofit Project is the only project that is being advertised at this time. The other projects will be brought before Council for bid and award as they are developed over the next four years.

Sewer Enterprise Project Overview

- Aeration Retrofit Project, CIP #12-02, the project would maintain compliance with current regulations for solids loading and will also meet the upcoming nitrate requirement. The project is planned to include: retrofit of 3 oxidation ditches, blower building, site piping and electrical work, SCADA modifications, and alkalinity feed system. The RAS pump station will be included as a deduct alternate and would only be constructed with favorable project bids. The project would also bring plant capacity back to the rated capacity of 10.4 MGD.
- WPCF Asset Replacement Project, CIP #14-02, the project will replace the bar screen with a new screen system that is compatible with the existing equipment at the WPCF headworks for removal of non-organic material, coat exposed steel surfaces of the clarifiers, and replace various pieces of mechanical equipment over the next four years. Replacement will reduce maintenance costs, maintain system reliability, and extend the life of downstream equipment.
- Large Diameter Wastewater Pipeline Repair, Replacement, and Lining, CIP #14-15, this project will maintain the wastewater collection system. This project will be developed with information from Closed Circuit Television system surveys in conjunction with other projects and constructed over the next three fiscal years.
- Treatment Plant Biosolids Improvement, CIP #10-11, this project address problems with management

and disposal of biosolids at the WPCF, and will be implemented over the next three fiscal years.

Project Delivery

The current Aeration Retrofit Project schedule contemplates:

- Bid authorization, February 18, 2014
- Bid opening, late April 2014
- SRF application, February 2014
- SRF Notice of Acceptance of Application, May 2014
- Aeration Retrofit Project construction May 2014-December 2015.

Discussion

The approval and authorization of the Aeration Retrofit Project design documents and bid package will help the WPCF meet City of Woodland existing treatment needs for solids loading, future growth in hydraulic loading, and maintain permitted plant capacity over time. While the aeration retrofit is expensive, it is the most cost effective way for the City of Woodland to maintain its permitted capacity of 10.4 mgd and meet future needs in a cost effective way. The City Council will be asked for authorization for award after the bids are received and the SRF loan is approved.

In developing the sewer rates adopted by the Woodland City Council in 2013, it was assumed that the majority of the CIP projects would be ultimately financed through long-term fixed-rate water utility bonds. This assumption was based on historical practice and is a reasonable and conservative approach to ensure rates will be able to support the estimated capital project costs. With the availability of 30 year SRF financing, the eligible CIP projects if financed through SRF could reduce the annual cost to the ratepayers.

The project team has explored several options to reduce project costs. After the 50% design was completed, a Value Engineering Study was conducted to identify project cost reductions or improve designed project efficiency. Some of these cost reductions were included in the final design (elimination of the 4th oxidation ditch was the most significant). This elimination was feasible because the improved aeration process will not need the additional solids capacity of the fourth ditch for the next 10 years based on the present expected increase in solids loading to the WPCF. The project team did look at other cost reductions that were not implemented because of the significant negative consequences (such as significant costs increases associated with aying the project).

Our intent is to take advantage of the current construction bidding environment ahead of upcoming large regional projects. The City of Galt will be advertising a \$21 million wastewater treatment plant upgrade in mid March, 2014. Sac Regional Sewer is planning to begin construction in 2015 for components of their \$2 billion WPCF upgrade.

Public Contract Code section 3400 allows the City to specify “sole source” products, brands or trade names in its specifications for public works projects, if the City Council has made certain findings related to the product or item. One of the statutorily permissible grounds for a sole source finding is that the product or item is needed to match other products in use at City facilities, in order to establish uniform, complete and compatible system/specifications for City facilities. (See Pub. Cont. Code § 3400(b)(2).) Further, competitive bidding is not required when the City determines it would produce no advantage for the City, or the advertising for bids is futile, undesirable, impractical or impossible. (*Graydon v. Pasadena Redevelopment Agency* (1980) 104

Cal.App.3d 631; see also *Los Angeles Dredging Co. v. City of Long Beach* (1930) 210 Cal. 348; *Los Angeles Gas & Electric Corp. v. City of Los Angeles* (1922) 188 Cal. 307, 319.)

Staff undertook considerable research of various options for the procurement of various equipment, programming services and SCADA integration services for the Aeration Retrofit Project. Sole source of equipment, programming services and SCADA integration services for the Aeration Retrofit Project is consistent with the design constraints of the WPCF facility. The City of Woodland needs to use the specified items and installers to minimize and simplify operations and maintenance costs that arise from using products that do not match or are otherwise incompatible with existing products and equipment at the WPCF facility, to meet specific design objectives in the wastewater treatment process and because certain equipment may only be obtained from and installed by one source that acts as the sole and exclusive authorized representative of the manufacturer in Northern California. Additionally, sole sourcing programming and SCADA integration services is necessary because only the specified subcontractor has the superior knowledge and experience regarding the City's wastewater treatment necessary to perform that work and to keep the facility operational during the Project. There is, therefore, no advantage to the City by requiring the programming and SCADA integration services to be competitively bid.

In order to process the SRF application for the selected projects, the Environment Requirements for SRF financing include developing a MND. These efforts are primarily erosion control and awareness of species habitat around the WPCF.

The SRF loan process requires that the City Council commit to authorization and payment of the SRF funding and administration needs through a Council Action. The SRF loan application covers the four CIP projects. The bid authorization is only for the Aeration Retrofit Project.

Commission/Committee Recommendation

The Projects were reviewed with the Infrastructure Committee on February 3, 2014.

Conclusion

Staff recommends that the City Council approve the Aeration Project Retrofit, CIP #12-02 design and bid package and authorize for bid advertisement. In addition, approve the following seven resolutions in support of the Project and State Revolving Fund (SRF) financing requirements.

1. Resolution No. for approval of the Mitigated Negative Declaration (MND) for improvements at the Water Pollution Control Facility (WPCF) and sewer pipeline rehabilitation projects throughout the City of Woodland for the next five years,
2. Resolution No. for sole sourcing various components of the Aeration Project,
3. Resolution No. for sole sourcing WPCF screen replacement equipment at the headworks,
4. Resolution No. for specifying Tesco as the subcontractor for work associated with providing and installing PLCs, programming, systems integration, wiring terminations at PLCs, SCADA integration etc.
5. Resolution No. for the City Manager to be (the "Authorized Representative") or designee to sign and file, for and on behalf of the City of Woodland, a Financial Assistance Application for a financing agreement from the State Water Resources Control Board for the planning, design, and construction of the City of Woodland 2014 WPCF Improvements and various sewer pipeline rehabilitation projects (the "Project"),
6. Resolution No. for Reimbursement of the SRF Expenditures paid prior to the issuance

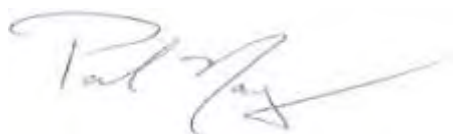
of the Obligations or the approval by the State Water Board of the Project Funds,

7. Resolution No. for the City of Woodland to dedicate and pledge Sewer Enterprise funds (Fund 220) to payment of any and all Clean Water State Revolving Fund Program financing for the improvements at the WPCF and sewer pipeline rehabilitation projects throughout the City of Woodland.

Prepared by: Mark Cocke, Senior Civil Engineer

Reviewed by: Tim Busch, Principal Utility Civil Engineer

Ken Hiatt, Community Development Director



Paul Navazio, City Manager

Enclosures:

Draft Mitigated Negative Declaration for Projects

Copy of Comments Received on Draft MND

Mitigation Monitoring and Reporting Program

Resolutions:

1. Resolution No. for approval of the Mitigated Negative Declaration
2. Resolution No. for sole sourcing various components of the Aeration Project
3. Resolution No. for sole sourcing WPCF screen replacement equipment
4. Resolution No. for specifying Tesco as the subcontractor
5. Resolution No. for the CITY MANAGER to be (the "Authorized Representative")
6. Resolution No. for Reimbursement of the State Revolving Fund (SRF) Expenditures
7. Resolution No. for the City of Woodland to dedicate and pledge Sewer Enterprise funds (Fund 220) to payment

DRAFT INITIAL STUDY

2014 WPCF Improvements and Water/Wastewater Line Repairs

Prepared for:

City of Woodland
300 First Street
Woodland, CA 95695
Contact: Mark Cocke

Prepared by:

DUDEK
980 Ninth Street, Suite 1750
Sacramento, California 95814
Contact: Brian Grattidge

DECEMBER 2013

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1.0 INTRODUCTION

1.1 Project Overview

The City of Woodland proposes to carry out two utility projects. The first is the 2014 WPCF Improvements project, which consists of several related improvements at the WPCF that will result in a more efficient wastewater treatment process. The second project consists of various repair and replacement of existing water and wastewater pipelines throughout the City.

1.2 California Environmental Quality Act Compliance

This initial study has been prepared per the requirements of the California Environmental Quality Act (CEQA) of 1970 (Public Resources Code [PRC] Section 21000, et seq.), and the CEQA Guidelines (California Code of Regulations, Title 14, Section 15000 et seq.).

1.3 Project Planning Setting

The proposed project is located within the City of Woodland, an incorporated City within Yolo County.

1.4 Public Review Process

The initial study, and the proposed Mitigated Negative Declaration, will be circulated for public review for a period of 30 days, pursuant to Guidelines Section 15073(a).

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2014 WPCF Improvements Initial Study

2.0 SUMMARY OF FINDINGS

2.1 Environmental Factors Potentially Affected

This initial study considers the environmental issues identified in Appendix G of the CEQA Guidelines.

2.2 Environmental Determination

The lead agency finds that the initial study identifies potentially significant effects, but that revisions to the project would avoid the effects or mitigate the effects to a point where clearly no significant effects would occur. There is no substantial evidence that the project as revised would have a significant effect on the environment.

**Table 1-1
Mitigation Summary**

Number	Measure
BIO-1	The blower building site shall be fenced off (a minimum of 200 feet from the nearest potential nest) during the non-breeding season: February 1 through August 31. If construction activity outside of the fenced area must be scheduled during the breeding season, a qualified biologist shall determine if the burrows are active. If active, the biologist shall determine the necessary buffer and will monitor the site during construction activities.
BIO-2	All necessary precautions, including implementation of standard best management practices, should be employed to avoid runoff or fill material into the adjacent alkali seasonal wetland community. This shall include establishing work area and staging area within the existing WPCF site, identifying equipment and commute travel routes such that the seasonal wetland is not directly affected, and installation of sediment fencing between work areas and the seasonal wetland.

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3.0 INITIAL STUDY CHECKLIST

1. Project title:

2014 Water Pollution Control Facility (WPCF) Improvements and Water/Wastewater Pipeline Repairs

2. Lead agency name and address:

City of Woodland
300 First Street
Woodland, California 95695

3. Contact person and phone number:

Mark Cocke
530.661.5898

4. Project location:

The City Water Pollution Control Facility (WPCF) is located at 42929 County Road 24, Woodland California, 95776. (Figures 1 and 2).

The water and wastewater pipeline repairs would be located throughout the incorporated City of Woodland, Yolo County, California.

5. Project sponsor's name and address:

City of Woodland
Public Works Department
300 First Street
Woodland, California 95695

6. General plan designation:

The WPCF is designated Public Service. The water and wastewater system serves the entire City, which is designated for various land uses in the 2002 General Plan, including residential, commercial, industrial, open space, public services, urban reserve, and undesignated.

2014 WPCF Improvements Initial Study

7. Zoning:

The WPCF is zoned Open-Space. The Municipal Water System serves the entire City, which is zoned for various uses, including residential, commercial, industrial, open-space, agricultural, and various specific planned areas.

8. Description of project. (Describe the whole action involved, including but not limited to later phases of the project, and any secondary, support, or off-site features necessary for its implementation. Attach additional sheets if necessary):

The City of Woodland proposes to carry out two utility projects. The first is the 2014 WPCF Improvements project, which consists of several related improvements at the WPCF that will result in a more efficient wastewater treatment process. The second project consists of various repair and replacement of existing water and wastewater pipelines throughout the City. (Figure 3)

2014 WPCF Improvements

The WPCF is a 10.4 million gallon per day (MGD) wastewater treatment plant serving the City of Woodland. The City of Woodland owns and operates the WPCF, which treats wastewater from throughout the City's residential, commercial, and industrial users. The facility uses a tertiary (advanced) treatment system, with the treated effluent discharged into the Tule Canal within the Yolo Bypass. The treatment system consists of activated sludge oxidation ditches, secondary clarifiers, and a chlorination/dechlorination process. Approximately 315 acres of ponds are used for the treatment of sludge and storage of excess wastewater during periods of peak flow. The WPCF is designated as a class V facility – the highest treatment rating in California standards – and holds all required federal and state permits (NPDES No. CA0077950, WDR Order No. R5-209-0010).

The proposed project would improve energy conservation and plant performance. The project converts the existing oxidation ditch system to a nitrifying and denitrifying bioreactor. The upgrades are referred to as the Modified Ludzack Ettinger (MLE) process. The upgrades include constructing partitions the oxidation ditches into anoxic and aerated zones and installing submersible mixers and fine bubble diffusers to replace the older and less efficient surface brush aerators.

These improvements are expected to reduce secondary power usage by 30%, saving approximately \$160,000 per year and reducing indirect air emissions, including greenhouse gas (GHG) related to energy usage. Additional benefits include improved sludge settleability and process stability. As a result, the downstream filters and UV

2014 WPCF Improvements Initial Study

disinfection should also see reduced operating costs. The process would also remove additional nitrogen from the water, which improves the quality of the effluent.

Physical improvement at the WPCF related to the implementation of the MLE process include modification of the four existing oxidation ditches and construction of a blower building on a 0.26 acre pad to the south of the oxidation ditches, outside of the existing fenceline.

Additional improvements would be made at the settling ponds. Two of the twelve existing settling ponds (the two central ponds on the east side) would receive a soil cement treatment. This process (of adding lime and Portland cement to the existing soil) improves sludge removal. The ponds are approximately 4800 square feet each. Approximately 2700 linear feet of new pipe would be constructed between the existing ponds and eight new manholes would be installed.

Water/Wastewater Pipeline Repair

The City proposes to repair and replace various pipelines for both the municipal water system and the wastewater collection system. All work would be within existing City right of way: streets, alleys, and public utilities easements (PUE).

The municipal water system consists of 19 interconnected wells, 235 miles of water main lines, and more than 14,200 service connections. Water mains vary between x and x inches in diameter, at a typical depth of 3 to 6 feet. Service laterals are typically 1 to 2 inches in diameter. The work would consist of repair/replacement of existing water mains and service laterals.

The wastewater collection consists 176 miles of sewer main, 5 miles of pressurized mains, over 14,800 service connection, 2,487 sewer maintenances holes, 2 sewer lift pump stations. The main lines are typically between x and x inches in diameter. Service laterals are typically 4 inches in diameter. The work would involve the repair/replacement of existing sewer mains and service laterals.

9. Surrounding land uses and setting (Briefly describe the project's surroundings):

The WPCF is surrounded by agricultural and open space uses in unincorporated Yolo County. Agricultural activity is more intense on the east and south side of the site. To the north are agricultural/vacant lands between the WPCF and Interstate 5. To the west are various open space, and vacant/agricultural lands, as well as two automobile salvage yards. Urban development occurs a half-mile to the west.

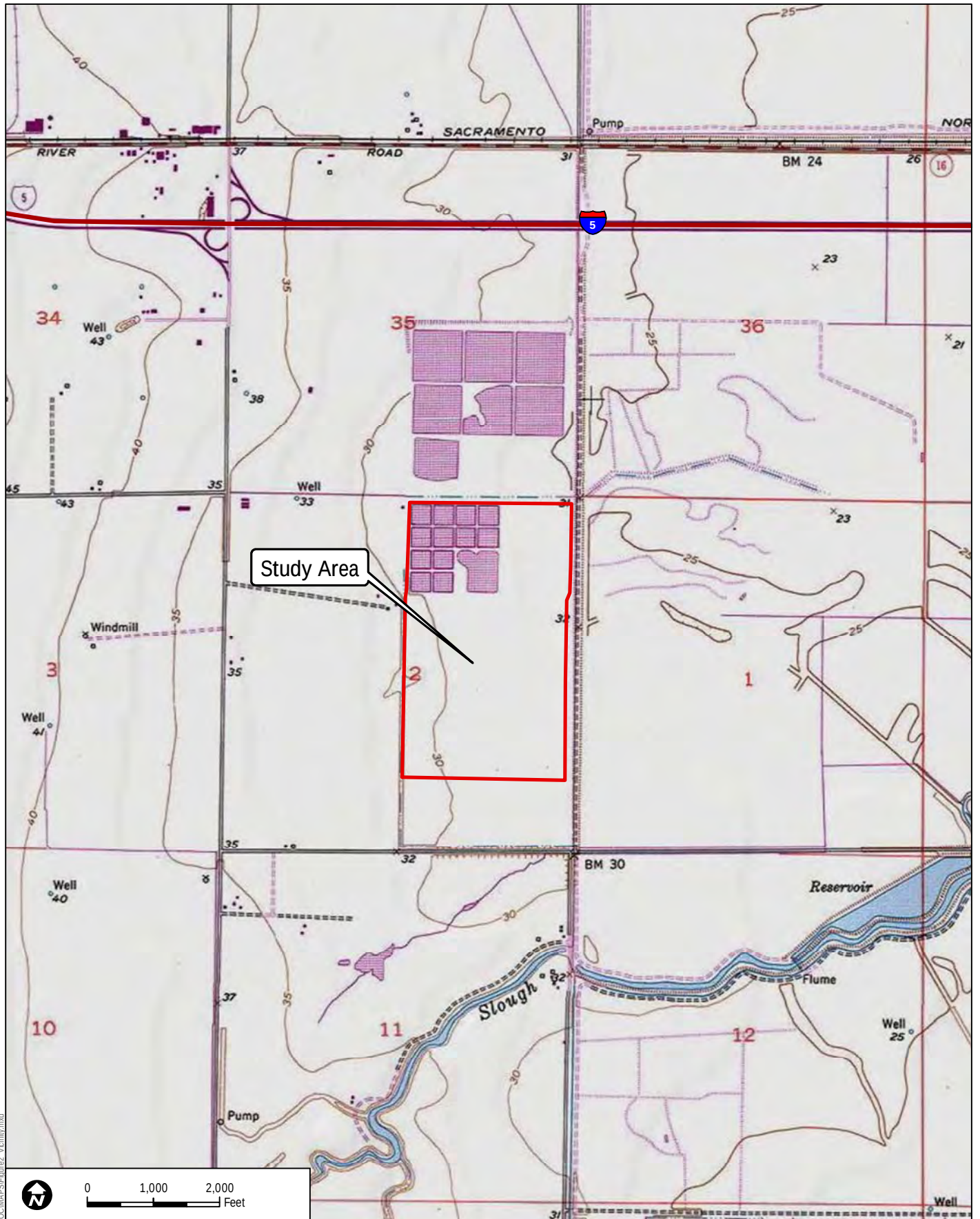
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The water and wastewater system serves the City of Woodland, which is approximately 15 square miles, located at the junction of Interstate 5 and State Route 113, west of the Yolo Bypass and the Sacramento River. The City is surrounded by agricultural, rural residential, agricultural-industrial, and open space uses. The City has a current population of 56,908 with 19,964 housing units (DOF 2013).

10. Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement):

The proposed project would require funding under the Clean Water State Revolving Fund (CWSRF), administered by the State Water Resources Control Board (“Board”). The Board will use this initial study as a CEQA responsible agency. In addition, because the CWSRF includes funds from the United State Environmental Protection Agency, the project must also comply with the applicable CWSRF Program federal environmental statutes and authorities (also referred to as the federal cross-cutters).

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SOURCE: USGS 7.5 Minute Series Topographic Maps

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FIGURE 2
Vicinity Map

WOODLAND POLLUTION CONTROL FACILITY SRF

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SOURCE: NEXGEN 2013

WOODLAND POLLUTION CONTROL FACILITY SRF

Legend

- New manhole
- Existing Manhole
- New Pipe
- Existing Pipe

FIGURE 3
Site Plan

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2014 WPCF Improvements Initial Study

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a “Potentially Significant Impact,” as indicated by the checklist on the following pages.

- | | | |
|--|---|---|
| ☐ Aesthetics | ☐ Agriculture and Forestry Resources | ☐ Air Quality |
| ☒ Biological Resources | ☐ Cultural Resources | ☐ Geology and Soils |
| ☐ Greenhouse Gas Emissions | ☐ Hazards and Hazardous Materials | ☐ Hydrology and Water Quality |
| ☐ Land Use and Planning | ☐ Mineral Resources | ☐ Noise |
| ☐ Population and Housing | ☐ Public Services | ☐ Recreation |
| ☐ Transportation and Traffic | ☐ Utilities and Service Systems | ☐ Mandatory Findings of Significance |

2014 WPCF Improvements Initial Study

DETERMINATION: (To be completed by the Lead Agency)

On the basis of this initial evaluation:

- ☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- ☒ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
- ☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
- ☐ I find that the proposed project MAY have a “potentially significant impact” or “potentially significant unless mitigated” impact on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
- ☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Signature

Date

Signature

Date

EVALUATION OF ENVIRONMENTAL IMPACTS:

- 1) A brief explanation is required for all answers except “No Impact” answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A “No Impact” answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A “No Impact” answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
- 2) All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3) Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. “Potentially Significant Impact” is appropriate if there is substantial evidence that an effect may be significant. If there are one or more “Potentially Significant Impact” entries when the determination is made, an Environmental Impact Report (EIR) is required.
- 4) “Negative Declaration: Less Than Significant With Mitigation Incorporated” applies where the incorporation of mitigation measures has reduced an effect from “Potentially Significant Impact” to a “Less Than Significant Impact.” The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from “Earlier Analyses,” as described in (5) below, may be cross-referenced).
- 5) Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
 - a) Earlier Analysis Used. Identify and state where they are available for review.
 - b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
 - c) Mitigation Measures. For effects that are “Less than Significant with Mitigation Measures Incorporated,” describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.

2014 WPCF Improvements Initial Study

- 6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
- 7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
- 8) This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
- 9) The explanation of each issue should identify:
 - a) The significance criteria or threshold, if any, used to evaluate each question; and
 - b) The mitigation measure identified, if any, to reduce the impact to less than significance

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
I. AESTHETICS – Would the project:				
a) Have a substantial adverse effect on a scenic vista?	☐	☐	☒	☐
b) Substantially damage scenic resources including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☒	☐
c) Substantially degrade the existing visual character or quality of the site and its surroundings?	☐	☐	☒	☐
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☐	☐	☒	☐
II. AGRICULTURE AND FORESTRY RESOURCES – In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:				
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	☒
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	☐	☒

2014 WPCF Improvements Initial Study

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	☐	☐	☐	☒
d) Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☒
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	☐	☐	☐	☒
III. AIR QUALITY – Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☒	☐
b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	☐	☐	☒	☐
c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?	☐	☐	☒	☐
d) Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☒	☐
e) Create objectionable odors affecting a substantial number of people?	☐	☐	☒	☐
IV. BIOLOGICAL RESOURCES – Would the project:				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	☐	☒	☐	☐
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	☐	☐	☒	☐
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☒	☐	☐

2014 WPCF Improvements Initial Study

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☐	☒	☐
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	☐	☐	☒
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	☐	☐	☒	☐
V. CULTURAL RESOURCES – Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?	☐	☐	☒	☐
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	☐	☐	☒	☐
c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☐	☒	☐
d) Disturb any human remains, including those interred outside of formal cemeteries?	☐	☐	☒	☐
VI. GEOLOGY AND SOILS – Would the project:				
a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	☐	☐	☒	☐
ii) Strong seismic ground shaking?	☐	☐	☒	☐
iii) Seismic-related ground failure, including liquefaction?	☐	☐	☒	☐
iv) Landslides?	☐	☐	☒	☐
b) Result in substantial soil erosion or the loss of topsoil?	☐	☐	☒	☐
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	☐	☐	☒	☐

2014 WPCF Improvements Initial Study

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?	☐	☐	☒	☐
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	☐	☐	☒	☐
VII. GREENHOUSE GAS EMISSIONS – Would the project:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☒	☐
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☒	☐
VIII. HAZARDS AND HAZARDOUS MATERIALS – Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☐	☒	☐
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	☐	☐	☒	☐
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☐	☐	☒	☐
d) Be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	☐	☐	☒	☐
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?	☐	☐	☐	☒
f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?	☐	☐	☐	☒
g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☐	☒	☐

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	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?	☐	☐	☒	☐
IX. HYDROLOGY AND WATER QUALITY – Would the project:				
a) Violate any water quality standards or waste discharge requirements?	☐	☐	☒	☐
b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?	☐	☐	☒	☐
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?	☐	☐	☒	☐
d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?	☐	☐	☒	☐
e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	☐	☐	☒	☐
f) Otherwise substantially degrade water quality?	☐	☐	☒	☐
g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?	☐	☐	☐	☒
h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?	☐	☐	☒	☐
i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?	☐	☐	☒	☐
j) Inundation by seiche, tsunami, or mudflow?	☐	☐	☒	☐

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	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
X. LAND USE AND PLANNING – Would the project:				
a) Physically divide an established community?	☐	☐	☐	☒
b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☒	☐
c) Conflict with any applicable habitat conservation plan or natural community conservation plan?	☐	☐	☒	☐
XI. MINERAL RESOURCES – Would the project:				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	☒	☐
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?	☐	☐	☒	☐
XII. NOISE – Would the project result in:				
a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	☐	☐	☒	☐
b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?	☐	☐	☒	☐
c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?	☐	☐	☒	☐
d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?	☐	☐	☒	☐
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☒	☐
f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☒	☐

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	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XIII. POPULATION AND HOUSING – Would the project:				
a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☐	☐	☒
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒
c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒
XIV. PUBLIC SERVICES				
a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:				
Fire protection?	☐	☐	☐	☒
Police protection?	☐	☐	☐	☒
Schools?	☐	☐	☐	☒
Parks?	☐	☐	☐	☒
Other public facilities?	☐	☐	☒	☐
XV. RECREATION				
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	☐	☒
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☐	☐	☒
XVI. TRANSPORTATION/TRAFFIC – Would the project:				
a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?	☐	☐	☒	☐

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	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?	☐	☐	☒	☐
c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?	☐	☐	☒	☐
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☐	☒	☐
e) Result in inadequate emergency access?	☐	☐	☒	☐
f) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?	☐	☐	☒	☐
XVII. UTILITIES AND SERVICE SYSTEMS – Would the project:				
a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	☐	☐	☒	☐
b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	☐	☐	☒	☐
c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	☐	☐	☒	☐
d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?	☐	☐	☒	☐
e) Result in a determination by the wastewater treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	☐	☐	☒	☐
f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?	☐	☐	☒	☐
g) Comply with federal, state, and local statutes and regulations related to solid waste?	☐	☐	☒	☐

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	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XVIII. MANDATORY FINDINGS OF SIGNIFICANCE				
a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	☐	☐	☒	☐
b) Does the project have the potential to achieve short-term environmental goals to the disadvantage of long-term environmental goals?	☐	☐	☒	☐
c) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	☐	☐	☒	☐
d) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	☐	☒	☐

3.1 Aesthetics

a) *Would the project have a substantial adverse effect on a scenic vista?*

The project is not located within an identified scenic vista (City of Woodland 1996).

b) *Would the project substantially damage scenic resources including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?*

The project site is not located near a scenic highway. There is an eligible stretch of State Route 16 within Yolo County (Caltrans 2013). However, this section is located west of the City of Woodland and does not have a view of the project area.

c) *Would the project substantially degrade the existing visual character or quality of the site and its surroundings?*

The project would result in only one above-ground structure: a mechanical building adjacent to the aeration ponds within the WPCF site. This building is within a developed

site, is consistent in size and scale, and would not substantially change the character or quality of the site.

- d) *Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?*

No additional lighting is proposed as part of the project.

3.2 Agriculture and Forestry Resources

- a) *Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?*

There is no Important Farmland within the project site (City of Woodland 1996).

- b) *Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract?*

There are no Williamson Act contracted parcels within the project area (City of Woodland 2002).

- c) *Would the project conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?*

The City of Woodland does not contain forest land or timberland (City of Woodland 1996).

- d) *Would the project result in the loss of forest land or conversion of forest land to non-forest use?*

The City of Woodland does not contain forest land or timberland (City of Woodland 1996).

- e) *Would the project involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?*

The proposed WPCF improvements would improve the quality of effluent, by reducing nitrogen content. This could provide an indirect beneficial impact to agriculture by increasing opportunities for land application.

3.3 Air Quality

a) *Would the project conflict with or obstruct implementation of the applicable air quality plan?*

The proposed project is located in eastern Yolo County within the Sacramento Valley Air Basin (SVAB). The emissions that would result from construction and operation of the proposed project are subject to the rules and regulations of the Yolo-Solano Air Quality Management District (YSAQMD). The YSAQMD is responsible for developing and implementing the clean air plans for attainment and maintenance of the national and California ambient air quality standards in the SVAB. These attainment plans, which are also referred to as State Implementation Plans (SIPs) with respect to attainment of the National Ambient Air Quality Standards (NAAQS), are submitted to the California Air Resources Board (CARB) for approval. Once approved by CARB, the plans are then submitted to the EPA for approval (YSAQMD 2010).

The greater Sacramento metropolitan area, including Yolo County, is designated as nonattainment areas for the 8-hour ozone (O_3) under the NAAQS. The nonattainment area, which is referred to as the Sacramento Federal Nonattainment Area (SFNA), consists of all of Yolo and Sacramento counties, the southern portion of Sutter County, and the portions of Placer and El Dorado counties outside of the Lake Tahoe Air Basin. To meet federal planning requirements, the YSAQMD, in conjunction with other air districts in the SFNA, has contributed to the 2009 Sacramento Regional 8-hour Ozone Attainment and Reasonable Further Progress Plan (Revision) that is pending approval from the EPA and the CARB. This plan documents that the region is meeting requirements of the Clean Air Act for the 1997 8-hour ozone standard including meeting minimum emission reduction progress and reaching air quality standard not later than 2018. Additionally, in 2006 the YSAQMD submitted the Reasonably Available Control Technology State Implementation Plan that demonstrates that the YSAQMD's current rules meet the Reasonable Available Control Technology requirements for all sources subject to Control Technique Guidelines and all major non-Control Technique Guidelines sources in accordance with the EPA's Final Rule to Implement the 8-Hour Ozone NAAQS. The YSAQMD is also in the progress of completing the attainment plan for the 2006 24-hour NAAQS for particulate matter equal to or less than 2.5 microns in aerodynamic diameter ($PM_{2.5}$).

State law also requires annual and triennial progress reports regarding progress and control measures for bringing the subject area into attainment with the federal NAAQS and state California Ambient Air Quality Standards (CAAQS). In 2010, CARB approved the YSAQMD's updated Triennial Assessment and Plan Update that discloses the

progress that the YSAQMD has made towards improving the air quality in its jurisdiction since its 2003 Triennial Plan. The YSAQMD does not regulate motor vehicle emissions within the SVAB; however, the air quality attainment plans account for on-road mobile emissions and other emissions associated with mobile sources in its emission inventory. The emission inventory is an assessment of ozone precursor emission sources and an estimate of these precursor emissions including volatile organic compounds (VOCs, also referred to as reactive organic gases or ROGs) and oxides of nitrogen (NO_x). Mobile sources are responsible for the majority of ozone precursors emitted in the SFNA, and the associated emissions are directly related to the regional population and total vehicle miles traveled (YSAQMD 2010). The plans outline strategies to reduce mobile emissions through mobile source control measures (e.g., incentive programs), transportation and land use programs and projects, and transportation control measures including collaborative programs between the Yolo County Transportation District, Solano Transportation Authority, and Sacramento Area Council of Governments.

A project could conflict with these plans if it would result in a level of development and mobile source emissions greater than that anticipated in these plans and may contribute to a potentially significant cumulative impact on air quality. The proposed project would not change the land use designation or use of the project site, which is currently designated as Public Service and utilized for wastewater treatment (City of Woodland 2002, Land Use Element). The project would be consistent with existing uses related to wastewater treatment on the site and would not conflict with or propose to change existing land uses or conflict with applicable policies in the City of Woodland's General Plan. The proposed project would neither increase population nor would it require additional employment. Therefore, the proposed project would not increase development density and would be considered consistent the emissions estimates in the air quality attainment plans described above. As a result, impacts from a conflict with an applicable air quality plan or potential obstruction its implementation would be less than significant.

b) Would the project violate any air quality standard or contribute substantially to an existing or projected air quality violation?

The proposed project is located in eastern Yolo County within the SVAB. The EPA has designated the Yolo County area of the SVAB as a nonattainment area for the 1997 8-hour NAAQS for ozone, for the 2008 8-hour NAAQS for ozone, and for the 2006 PM_{2.5} NAAQS in the eastern portion of Yolo County. The SFNA, including Yolo County, is also designated as nonattainment areas for the 8-hour ozone NAAQS. CARB has designated the Yolo County portion of the SVAB as a nonattainment area for the 1-hour and 8-hour CAAQS for ozone, and the 24-hour CAAQS for particulate matter equal to or less than 10 microns in aerodynamic diameter (PM₁₀). CARB has also designated the

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SVAB as a nonattainment area for the 1-hour and 8-hour ozone CAAQS and 24-hour and annual PM₁₀ CAAQS. The Yolo County portion of the SVAB is designated as unclassified or attainment for all other criteria air pollutants. The status of the Yolo County portion of the SVAB with respect to the CAAQS and NAAQS is summarized in Table 3.3-1.

**Table 3.3-1
Sacramento Valley (Yolo County)
Attainment Status**

Pollutant	Averaging Time	Designation/Classification
<i>National^a</i>		
O ₃	8-hour (1997) 8-hour (2008)	Nonattainment (Severe 15) Nonattainment (Severe 15)
NO ₂	Annual arithmetic mean	Unclassifiable/Attainment
CO	1-hour, 8-hour	Unclassifiable/Attainment
SO ₂	1-hour	Unclassifiable
PM ₁₀	24-hour	Unclassifiable
PM _{2.5}	24-hour, annual arithmetic mean (2006)	Eastern Yolo County—Nonattainment; Western Yolo County— Unclassifiable/Attainment
Lead	Calendar quarter	Unclassifiable/Attainment
<i>State^b</i>		
O ₃	1-hour, 8-hour	Nonattainment ¹
NO ₂	1-hour, annual arithmetic mean	Attainment
CO	1-hour, 8-hour	Attainment
SO ₂	1-hour, 24-hour	Attainment
PM ₁₀	24-hour, annual arithmetic mean	Nonattainment
PM _{2.5}	Annual arithmetic mean	Unclassified
Lead ²	30-day average	Attainment
Sulfates (SO ₄)	24-hour	Attainment
Hydrogen sulfide (H ₂ S)	1-hour	Unclassified
Vinyl chloride ²	24-hour	Unclassified
Visibility-reducing particles	8-hour (10:00 a.m.–6:00 p.m.)	Unclassified

Sources: ^a EPA 2012; ^b CARB 2012.

Notes:

¹ CARB has not issued area classification based on the new state 8-hour standard. The previous classification for the 1-hour O₃ standard was serious.

² CARB has identified lead and vinyl chloride as toxic air contaminants (TACs) but has not established a threshold level of exposure for adverse health effects.

The YSAQMD has established project-level quantitative thresholds for determining the significance of both construction and operational impacts. For EQA purposes, project-related air quality impacts estimated in this environmental analysis would be considered significant if any of the applicable significance thresholds presented in Table 3.3-2, Yolo-Solano Air Quality Management District Air Quality Significance Thresholds, are exceeded during construction or operation.

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Table 3.3-2
Yolo-Solano Air Quality Management District Air Quality Significance
Thresholds

Pollutant	Threshold
ROG	10 tons/year
NO _x	10 tons/year
CO	Violation of a state ambient air quality standard ¹
SO _x	N/A
PM ₁₀	80 pounds/day
PM _{2.5}	N/A

Source: YSAQMD 2007.

Note:

¹ This threshold is applied to projects that generate large numbers of motor vehicle trips that would contribute to congestion at local intersections. It is not relevant for the proposed project, which would not generate new vehicle trips, except during construction.

Construction Emissions

Construction of the proposed project would result in a temporary addition of pollutants to the local airshed caused by soil disturbance, dust emissions, and combustion pollutants from on-site construction equipment, as well as from off-site personal vehicles and trucks hauling construction materials. NO_x and CO emissions would result primarily from the use of construction equipment and motor vehicles. Fugitive dust (PM₁₀ and PM_{2.5}) emissions would primarily result from grading and site preparation activities, as well as soil cement treatment of the settling ponds. Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of operation, and, for dust, the prevailing weather conditions.

The proposed project would involve two main phases of construction, physical improvements to the WPCF as well as citywide water and wastewater pipeline repair and replacement. The emissions from each of these two main construction phases of the proposed project were estimated using the California Emissions Estimator Model (CalEEMod) Version 2013.2.2, available online (<http://www.caleemod.com>), and the calculations are discussed in more detail below.

WPCF Improvements

The physical upgrades to the WPCF include installing approximately 2,700 linear feet of new pipeline between existing settling ponds and eight new manholes, performing a soil cement treatment on two existing settling ponds, and upgrading the existing oxidation ditch system to an MLE process.

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The portion of the WPCF improvements that entails constructing of 2,700-feet of new wastewater pipeline between existing settling ponds and eight new manholes is anticipated to be installed at a rate of approximately 100 linear feet of pipe per day; therefore, construction would last approximately five and a half weeks. For the purposes of emissions modeling, it was assumed that construction of this pipeline would commence in June 2014.

Construction of the new pipeline at the WPCF was assumed to consist of trenching and excavation, followed by pipe installation, and then covering the pipe and soil compacting. Pipe installation would involve partially filling the trench, placing the 24 to 30 inch pipe into the trench using a crane, and then adding more fill material. It is assumed that all excavated material will be used to fill the trench or spread on site, and no import or export of soil would be required. A roller would be used to compact the soil after pipeline construction and no paving would occur. It was assumed that construction would require five workers (10 worker trips per day). One round-trip vendor truck trip was assumed each day to represent potential delivery of construction materials or watering of the site for fugitive dust control. This construction scenario and equipment mix is based on City staff input and typical construction practices for pipeline activities. The equipment mix is meant to represent a reasonably conservative estimate of construction activity. For the analysis, it is generally assumed that heavy construction equipment would be operating at the site for 5 days per week (22 days per month).

Table 3.3-3, New Wastewater Pipeline Estimated Maximum Daily Construction Emissions, presents the estimated maximum unmitigated daily emissions generated during construction of the proposed 2,700 linear feet of pipeline. Only the daily PM₁₀ emissions are compared to the YSAQMD significance threshold; the emissions of other pollutants are presented for full disclosure. The annual ROG and NO_x emissions are shown in Table 3.3-8, Total WPCF Improvements Estimated Maximum Annual Construction Emissions.

Table 3.3-3
New Wastewater Pipeline Estimated Maximum Daily Construction Emissions
(pounds/day unmitigated)

	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Maximum Daily Emissions	0.80	8.51	5.83	0.01	11.36	1.49
YSAQMD Threshold	N/A	N/A	N/A	N/A	80	N/A
Threshold Exceeded?	N/A	N/A	N/A	N/A	No	N/A

Notes: See Appendix A for detailed results.

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The WPCF improvements would also include a soil cement treatment on two existing settling ponds of approximately 48,000 square feet each. The soil cement treatment was assumed to begin with site preparation and access ramp construction followed by rough grading of the site, which would include the use of a grader, scraper, and tractors/loaders/backhoes. Next, a cement and mortar mixer, paver, paving equipment, and tractor/loader/backhoe would be used for spreading and mixing of lime, followed by spreading and mixing of cement. Because the spreading and mixing of the cement is completed at portions of the ponds, these areas would be finish graded with rollers and plate compactors. At the end of construction, the ramp would be removed and the site would be returned back to its operational condition using the same equipment as that in the site preparation and ramp construction phase. Vendor trips were used in CalEEMod to model the import of an estimated 461 tons of lime and 928 tons of cement (Cocke, M. 2013). The total construction time for the soil cement treatment of the two ponds is expect to take approximately three and a half weeks, based on input from the City staff and typical construction practices the contractor?. It is assumed that heavy construction equipment would be operating at the site for 5 days per week with construction following completion of the new 2,700 linear feet of pipeline at the WPCF.

Table 3.3-4, Soil Cement Treatment Estimated Maximum Daily Construction Emissions, shows the estimated maximum unmitigated daily emissions generated during construction of the soil cement treatment for the two existing settlement ponds. Only the daily PM₁₀ emissions are compared to the YSAQMD significance threshold; the emissions of other pollutants are presented for full disclosure. The annual ROG and NO_x emissions are shown in Table 3.3-8, Proposed Project Estimated Maximum Annual Construction Emissions.

Table 3.3-4
Soil Cement Treatment Estimated Maximum Daily Construction Emissions
(pounds/day unmitigated)

	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Maximum Daily Emissions	2.89	33.14	19.48	0.03	18.38	4.11
YSAQMD Threshold	N/A	N/A	N/A	N/A	80	N/A
Threshold Exceeded?	N/A	N/A	N/A	N/A	No	N/A

Notes: See Appendix A for detailed results.

The third part of construction the WPCF improvements would include upgrading the existing oxidation ditch system to an MLE process. The upgrades include constructing partitions the oxidation ditches into anoxic and aerated zones and installing submersible mixers and fine bubble diffusers to replace the older and less efficient surface brush

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aerators. Additionally, the physical improvements at the WPCF related to the implementation of the MLE process include modification of the four existing oxidation ditches and construction of a blower building on a 0.26-acre pad to the south of the oxidation ditches.

Based on City staff input and typical construction practices for wastewater treatment plant construction, it was conservatively assumed that the MLE process upgrades would begin with the construction of the blower building, which would include site preparation, grading, pad construction, blower building construction, and application of architectural coatings. After construction of the blower building, it was assumed that MLE upgrades would occur at one aeration pond at a time to maintain the maximum possible capacity at the WPCF during construction. For each pond, this process was assumed to begin with installation of internal piping between the blower building and the aeration pond using an excavator, concrete/industrial saw, paving equipment, and a tractor/loader/backhoe for 2 weeks. After internal piping demolition and removal of portions of the existing oxidation ditch system was modeled for 2 weeks using a concrete/industrial saw, crane, and tractor/loader/backhoe. Finally, a crane, forklift, tractor/loader/backhoe, cement and mortar mixer, and paving equipment would be used to construct the new partitions and to install the fine bubble diffusers over a period of approximately 6 weeks. It was assumed that the construction of the MLE upgrades would involve 500 cubic feet of debris removal during demolition for each aeration pond. The total construction of the MLE upgrades, including the blower building, connecting pipes, and aeration pond alterations was assumed to occur over an approximately 13-month period with construction activity occurring 5 days per week.

Table 3.3-5, MLE Upgrades Estimated Maximum Daily Construction Emissions, displays the estimated maximum unmitigated daily emissions generated during construction of the MLE upgrades. Only the daily PM₁₀ emissions are compared to the YSAQMD significance threshold; the emissions of other pollutants are presented for full disclosure. The annual ROG and NO_x emissions are shown in Table 3.3-8, Proposed Project Estimated Maximum Annual Construction Emissions.

Table 3.3-5
MLE Upgrades Estimated Maximum Daily Construction Emissions
(pounds/day unmitigated)

	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Maximum Daily Emissions	5.89	14.51	9.45	0.02	11.63	2.28
YSAQMD Threshold	N/A	N/A	N/A	N/A	80	N/A
Threshold Exceeded?	N/A	N/A	N/A	N/A	No	N/A

Notes: See Appendix A for detailed results.

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Table 3.3-8, Proposed Project Estimated Maximum Annual Construction Emissions, shows the total annual construction of WPCF improvements portion of the proposed project in 2014 and 2015 are less than the annual YSAQMD criteria air pollutant thresholds. Therefore, impacts during construction of the WPCF improvements would be less than significant.

Citywide Water/Wastewater Pipeline Repair

The City of Woodland anticipates the need to replace existing water and sewer mains and service laterals throughout the City. These improvements would be made to the existing water distribution and wastewater collection system, which currently has 176 miles of sewer main, 5 miles of pressurized mains, and 2 sewer lift pump stations. The municipal water system consists of 19 interconnected wells, 235 miles of water main lines, and more than 14,200 service connections.

A representative daily and annual construction scenario was developed that would reasonably represent replacement of pipeline in various locations throughout the City. Similar to the new wastewater pipeline construction at the WPCF, it is anticipated that a construction contractor would replace approximately 100 linear feet of pipe per day. The total amount of pipeline that would need to be replaced is unknown at the time this analysis was prepared and construction would likely occur intermittently in future years. For the purposes of annual emissions modeling, it was conservatively assumed that construction of replacement pipeline would commence in January 2014 and continue for 250 working days, ending in December 2014. Actual pipeline replacement may occur over a shorter period or in future years.

Simultaneous operation of equipment or operation of all pieces of equipment in one day is not anticipated to occur regularly; however, the equipment mix and hours of operation is anticipated to demonstrate a maximum daily and annual scenario. A concrete/industrial saw was assumed in the event that saw-cutting of existing pavement to prepare for pipeline removal and/or installation would be necessary. Similar to new pipeline installation, citywide wastewater pipeline replacement is anticipated to require the use of an excavator for trenching activities and a roller to compact the excavated and filled material. A tractor/loader/backhoe was also assumed to be used for excavation, fill, or other various construction activities. Unlike the new pipeline installation scenario, a crane is not anticipated to be used to replace existing pipe; instead, pipeline placement is generally anticipated to be completed by hand. Following pipe placement, the pipe would be covered and the area would be paved so that no trenches would be left open. Steel plates or base pavement would be installed if an excavated area is not filled at the end of each day.

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It was assumed that construction would require five workers (10 worker trips per day). Although specifics are unknown at this time, haul truck trips and vendor truck trips were assumed to occur throughout the representative annual scenario to take into account potential vehicle-generated emissions associated with export of excess excavated material or supply of pipeline materials.

Only one utilities or contractor crew performing pipeline replacement activities is anticipated to be operating within the City on any given day. Accordingly, concurrent wastewater pipeline replacement that could require more than one piece of each equipment type is not expected to occur during the representative annual scenario.

The anticipated construction equipment mix and estimated hours per day of equipment operation for citywide wastewater pipeline replacement is shown in Table 3.3-6, Citywide Water/Wastewater Pipeline Replacement Anticipated Construction Equipment. As previously stated, the representative scenario assumes 250 days of construction in 2014.

Table 3.3-6
Citywide Water/Wastewater Pipeline Replacement
Anticipated Construction Equipment

Construction Phase	Equipment	Quantity	Hours/day
Pipeline Installation (Grading)	Concrete/Industrial Saws (16 HP)	1	1
	Excavator	1	8
	Paving Equipment	1	2
	Tractors/Loaders/Backhoes	1	6
	Roller	1	2

Notes:

Default equipment horsepower (HP) was assumed, except where noted otherwise in parenthesis.

Table 3.3-7, Citywide Water/Wastewater Pipeline Replacement Estimated Maximum Daily Construction Emissions, presents the estimated maximum unmitigated daily emissions generated during construction of the representative scenario assuming 100 feet of pipeline replaced per day and associated equipment operation. Only the daily PM₁₀ emissions are compared to the YSAQMD significance threshold; the emissions of other pollutants are presented for full disclosure. The annual ROG and NO_x emissions are shown in Table 3.3-9, Proposed Project Estimated Maximum Annual Construction Emissions.

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Table 3.3-7
Citywide Water/Wastewater Pipeline Replacement
Estimated Maximum Daily Construction Emissions
(pounds/day unmitigated)

	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
2014	1.93	19.75	11.77	0.02	12.75	2.19
YSAQMD Threshold	N/A	N/A	N/A	N/A	80	N/A
Threshold Exceeded?	N/A	N/A	N/A	N/A	No	N/A

Notes: See Appendix A for detailed results.

As shown, above in Table 3.3-7, the citywide wastewater pipeline replacement would not exceed YSAQMD daily significance thresholds. Therefore, impacts from construction of the citywide wastewater pipeline replacements would be less than significant.

Table 3.3-8, Proposed Project Estimated Annual Construction Emissions, presents the annual unmitigated emissions generated during construction of the entire proposed project, which includes both the WPCF improvements (i.e., new wastewater pipeline, soil cement treatment, as well as MLE upgrades) and the representative annual scenario of citywide wastewater pipeline replacement for each year that construction would occur.

Table 3.3-8
Proposed Project
Estimated Maximum Annual Construction Emissions
(tons/year unmitigated)

	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
New Wastewater Pipeline - 2014	0.01	0.12	0.08	0.01	0.13	0.02
Soil Cement Treatment - 2014	0.02	0.24	0.15	0.01	0.14	0.03
MLE Upgrades - 2014	0.05	0.35	0.24	0.01	0.41	0.06
Citywide Pipeline Replacements	0.24	2.47	1.45	0.01	1.38	0.25
<i>Total 2014</i>	<i>0.32</i>	<i>3.38</i>	<i>1.92</i>	<i>0.04</i>	<i>2.06</i>	<i>0.36</i>
MLE Upgrades - 2015	0.05	0.49	0.35	0.01	0.65	0.09
Citywide Pipeline Replacements	0.24	2.47	1.45	0.01	1.38	0.25
<i>Total 2015</i>	<i>0.29</i>	<i>2.96</i>	<i>1.80</i>	<i>0.02</i>	<i>2.03</i>	<i>0.34</i>
YSAQMD Threshold	10	10	N/A	N/A	N/A	N/A
Threshold Exceeded?	No	No	N/A	N/A	N/A	N/A

Notes: See Appendix A for detailed results.

As shown above, construction of the entire proposed project would not exceed annual thresholds adopted by the YSAQMD. Therefore, construction impacts of the proposed project would be less than significant.

Operation Emissions

The proposed project would improve energy conservation and plant performance by converting the existing oxidation ditch system to a nitrifying and denitrifying bioreactor or MLE process. It would not, however, increase the capacity of the WPCF. The WPCF improvements are expected to improved sludge settleability and process stability. As a result, the downstream filters and UV disinfection should also see reduced operating costs. The process would also remove additional nitrogen from the water, which improves the quality of the effluent. The MLE process is expected to reduce secondary power usage by approximately 30%. The proposed project would not increase the amount of criteria air pollutants emitted during operation of the WPCF because ROG emissions are generally a function of wastewater throughput, which would not increase. Furthermore, the proposed project would not increase permanent employment at the WPCF or associated vehicle trips. Therefore, it is anticipated that the proposed project would not change current operational criteria air pollutant emissions, and operational impacts would be less than significant.

- c) *Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?*

The SVAB is designated as nonattainment for the 8-hour O₃ for the NAAQS and CAAQS, the 24-hour PM₁₀ CAAQS, and the eastern Yolo County portion of SVAB is nonattainment for the 24-hour PM_{2.5} NAAQS. The emission inventory is an assessment of ozone precursor emission sources and an estimate of these precursor emissions including ROG_s and NO_x. Mobile sources are responsible for the majority of ozone precursors emitted in the SFNA and associated emissions are directly related to the regional population and total vehicle miles traveled (YSAQMD 2010b). Projects that emit these pollutants or their precursors potentially contribute to poor air quality. As discussed above, the construction and operational emissions from the proposed project would not exceed the YSAQMD significant thresholds. The proposed project would also not conflict with the applicable air quality plans, which addresses the cumulative emissions in the SVAB. Accordingly, the proposed project would not result in a cumulatively considerable increase in emissions of nonattainment pollutants. Impacts would be less than significant.

d) *Would the project expose sensitive receptors to substantial pollutant concentrations?*

The greatest potential for exposing sensitive receptors to substantial pollutant concentrations would occur during construction, due to diesel particulate emissions from heavy equipment operations and heavy-duty trucks. Residential homes are sensitive receptors that could be exposed to substantial diesel particulate concentrations during construction. However, the nearest residential homes to the WPCF are located more than 0.5 mile away and would not likely be exposed to substantial pollutant concentrations. Additionally, construction of the WPCF improvements would be intermittent and temporary.

During construction of the citywide water/wastewater pipeline repairs and replacements there is the potential that construction equipment could emit diesel particulate in proximity to residential homes or other sensitive receptors. However, operation of construction equipment would occur for a relatively short duration during construction and would not remain in proximity to these sensitive receptors for the entire construction period due to the linear nature of pipeline alignments. These construction activities are not expected to generate substantial emissions of toxic air contaminants, specifically diesel exhaust particulate matter. Furthermore, construction of the proposed project would not require the simultaneous operation of large amounts of construction equipment. Therefore, impacts to sensitive receptors in the vicinity of the construction of the proposed project would be less than significant.

e) *Would the project create objectionable odors affecting a substantial number of people?*

Odors are a form of air pollution that is most obvious to the public. Odors can present significant problems for both the source and surrounding community. Although offensive odors seldom cause physical harm, they can be annoying and cause concern.

Potential sources that may emit odors during construction activities include diesel equipment and gasoline-powered engines. Odors from these sources would be localized and generally confined to the proposed pipeline alignment. Additionally, odors associated with construction equipment would be temporary. Therefore, proposed project construction would not cause an odor nuisance.

Operation of the proposed project would include the operation of a wastewater treatment plant that would produce odors. However, the proposed upgrades to the WPCF would not result in larger amounts of odorous compounds being emitted from the WPCF. Additionally, the WPCF is not located close to any sensitive receptors. Therefore, impacts from creating objectionable odors that affect a substantial number of people would be less than significant. As a screening threshold, the CEQA guidance used by the

San Joaquin Valley Air Pollution Control District includes “screening thresholds” for odor that indicate a wastewater treatment plant within 2 miles of sensitive receptors would not generally be a source of odors (SJVAPCD 2002).

3.4 Biological Resources

- a) *Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?*

The WPCF project site was the subject of biological resources assessment (Estep 2013). The water/wastewater pipeline replacement project would only effect developed City right of way and so is not considered further. The existing habitat, and potentially occurring species are described below.

Project Location and Setting

The WPCF is located on the southeastern edge of the City south of Interstate 5 and east of County Road 102. The surrounding area is primarily agricultural; however, urbanization from the City extends to the west side of County Road 102 and north of Interstate 5. The WPCF facility includes the water treatment facility and a series of treatment and evaporation ponds to the north and south. The proposed blower building site is located on the southeastern edge of the WPCF immediately adjacent to the perimeter fence. It is bordered on the north by the perimeter fence and open space to the west, east, and south. The proposed site sits on existing fill material placed during the construction of the existing facility. The fill material extends along the southern boundary of the existing facility ranging from approximately 90 feet to 150 feet south of the perimeter fence in the vicinity of the proposed project. Its elevation is approximately 4 feet below that of the existing facility, and approximately 2 feet above the natural grade.

An approximately 23-acre remnant natural area occurs immediately south of the WPCF and proposed project site (Figure 1). It is bordered on the west and south by treatment ponds and on the east by farmland. This natural area is primarily a seasonal wetland complex that retains characteristics of the native alkali sink natural community historically common to this area. The proposed project site as well as the existing facility was also formerly part of a larger alkali sink natural community that existed in this portion of Yolo County.

Since the biological assessment was prepared, the 0.26-acre building site has been graded (following the period when any potential burrowing owl young would have fledged).

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While no special-status species have been identified on the project site, there are several species which may occur in the vicinity. These include northern harrier (*Circus cyaneus*), white tailed kite (*Elanus leucurus*), Swainson's hawk (*Buteo swainsoni*), western burrowing owl (*Athene Cunicularia*), tricolored blackbird (*Agelaius tricolor*), loggerhead shrike (*Lanius Ludovicianus*), pallid bat (*Antrozous pallidus*), and Townsend's big-eared bat (*Corynorhinus townsendii townsendii*). While the project site may provide foraging habitat, the loss of such a small site, and the availability of better foraging habitat near the site, support the conclusion that the loss of habitat would be less than significant. An active western burrowing owl nest was identified approximately 220 feet from the project site. If the nest is re-occupied in the following season, construction activities could adversely affect the nesting owls. This potential impact would require mitigation measures, described below.

In addition, there is a low possibility of special-status plants occurring near the project site, including palmate-bracted bird's beak (*Cordylanthus palmatus*), brittlescale (*Atriplex depressa*), San Joaquin spearscale (*Atriplex joaquiniana*), alkali milk-vetch (*Astragalus tener* var. *tener*), and Heckard's pepper-grass (*Lepidium latipes* var. *heckardii*). While the potential for occurrence would be outside of the project area, avoidance measures (Mitigation Measure BIO-2) would avoid off-site impacts to special status plants.

b) *Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?*

The 0.26 acre building site constitutes a small patch of potential annual grassland habitat. It may provide value to local wildlife, particularly due to its proximity to the adjacent alkali seasonal wetland natural community. Nonetheless, the very small size of the project site and its immediate proximity to the existing WPCF facility reduces the overall impact on biological resources. The amount of annual grassland that would be removed is negligible and would not substantially affect the distribution or abundance of this natural community nor would it noticeably affect wildlife use of the area. Those species that use grasslands for nesting or foraging would continue to use the adjacent open grasslands and surrounding open lands.

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- c) *Would the project have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?*

The approximately 26-acre alkali seasonal wetland immediately south of the proposed blower building site is remnant of a once larger alkali sink natural community that historically extended throughout much of the area east and southeast of the City. Other nearby remnant patches of this community exist in the general area between County Road 24 south to Willow Slough and east to County Road 103. Two of these remnant patches are currently managed as alkali sink preserves, Woodland Regional Park and Alkali Grasslands Preserve, both located near County Road 25 and County Road 102, within 1 mile of the project site. The adjacent patch is isolated from other remnant patches and surrounded by WPCF evaporation ponds and agricultural lands.

Precautions should be taken to prevent indirect impacts to adjacent wetlands. See mitigation measures, below.

- d) *Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?*

The area of disturbance is relatively small (0.26 acre) and is adjacent to the existing WPCF facilities (Estep 2013). The proposed project would not interfere with a migratory wildlife corridor.

- e) *Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?*

The WPCF project area does not contain trees subject to the City's tree preservation ordinance (Estep 2013).

- f) *Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?*

Development in Yolo County is potentially subject to the Swainson's Hawk Interim Mitigation Fee Program. Established in 1993, the program utilizes mitigation fees to acquire conservation easements protecting Swainson's hawk habitat. The proposed project, which includes minor modification and construction (0.26 acre) to an existing

public facility, would not meet the definition of urban development or the conversion of open space to a different land use type.

Mitigation Measures

BIO-1. The blower building site shall be fenced off (a minimum of 200 feet from the nearest potential nest) during the non-breeding season: February 1 through August 31. If construction activity outside of the fenced area must be scheduled during the breeding season, a qualified biologist shall determine if the burrows are active. If active, the biologist shall determine the necessary buffer and will monitor the site during construction activities.

BIO-2. All necessary precautions, including implementation of standard best management practices, should be employed to avoid runoff or fill material into the adjacent alkali seasonal wetland community. This shall include establishing work area and staging area within the existing WPCF site, identifying equipment and commute travel routes such that the seasonal wetland is not directly affected, and installation of sediment fencing between work areas and the seasonal wetland.

3.5 Cultural Resources

- a) *Would the project cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?*

Regulatory Setting

CEQA requires that all private and public activities not specifically exempted be evaluated for the potential to impact the environment, including effects to historical resources. Historical resources are recognized as part of the environment under CEQA. It defines historical resources as “any object, building, structure, site, area, or place, which is historically significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California” (Division I, Public Resources Code, Section 5021.1(b)).

Lead agencies have a responsibility to evaluate historical resources against the California Register criteria prior to making a finding as to a proposed project’s impacts to historical resources. Mitigation of adverse impacts is required if the proposed project will cause substantial adverse change. Substantial adverse change includes demolition, destruction, relocation, or alteration such that the significance of an historical resource would be impaired. While demolition and destruction are fairly obvious significant impacts, it is more difficult to assess when change, alteration, or relocation crosses the threshold of

substantial adverse change. The CEQA Guidelines provide that a project that demolishes or alters those physical characteristics of an historical resource that convey its historical significance (i.e., its character-defining features) can be considered to materially impair the resource's significance.

The California Register is used in the consideration of historic resources relative to significance for purposes of CEQA. The California Register includes resources listed in, or formally determined eligible for some California State Landmarks and Points of Historical Interest. Properties of local significance that have been designated under a local preservation ordinance (local landmarks or landmark districts), or that have been identified in a local historical resources inventory may be eligible for listing in the California Register and are presumed to be significant resources for purposes of CEQA unless a preponderance of evidence indicates otherwise.

Generally, a resource shall be considered by the lead agency to be “historically significant” if the resource meets the criteria for listing on the California Register of Historical Resources (Pub. Res. Code SS5024.1, Title 14 CCR, Section 4852) consisting of the following:

1. It is associated with events that have made a significant contribution to the broad patterns of local or regional history, or the cultural heritage of California or the United States; or
2. It is associated with the lives of persons important to local, California, or national history; or
3. It embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of a master, or possesses high artistic values; or
4. It has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation.

Records Search

Staff of the Northwest Information Center (NWIC) was contacted on November 18, 2013, requesting a record search for WPCF APE and a one-quarter mile radius surrounding the project area. One previous cultural resource report (S-2952) addresses a portion of the APE and three additional reports (S-2951, S-26861, and S-34832) address portions of the one-quarter mile record search boundary (Table 3.5-1). No previously recorded cultural resources were present within the proposed APE or the record search buffer.

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Table 3.5-1
Previous Cultural Resource Reports

S-Number	Year	Title	Author
S-002951	1979	Cultural Resource Assessment of the Woodland Industrial Wastewater Facilities, Yolo County, California	Ann S. Peak and Associates
S-002952	1976	Cultural Resource Assessment of the City of Woodland Wastewater Treatment System Expansion Project	Robert A. Gerry
S-026861	2003	Spring Lake Specific Plan: Water Detention Basins and Pipelines Proposal, City of Woodland, Yolo County, California: Cultural Resource Surveys and Assessments	Eleanor H. Derr
S-034832	2008	Cultural Resources Assessment of the Proposed Woodland Gateway Center Phase II, City of Woodland, Yolo County, California (Job #08-015)	Peak & Associates, Inc.

The Native American Heritage Commission (NAHC) was contacted by Dudek on November 18, 2013, to request a search of the Sacred Lands File for cultural resources in the project area. NAHC records indicated no previously identified sacred lands or areas of cultural importance within the project area. On, December 6, 2013, letters were sent to Native American Tribes and individuals identified by the NAHC, requesting information they may have relating to cultural resources that may be impacted by the project. To date, no responses have been received.

Intensive Pedestrian Survey

The intensive pedestrian survey was conducted by Dudek archaeologist Patrick Hadel on December 3, 2013, using standard archaeological procedures and techniques that meet the Secretary of Interior's standards and guidelines for cultural resources inventory. The entire accessible portion of the project area was surveyed utilizing parallel transects spaced no more than 10 meters apart, portions of the project area were inaccessible due to standing water. The facility grounds are heavily disturbed by construction for the facility, and the surrounding areas have been plowed or otherwise disturbed for agricultural activities. No artifacts or features were identified during this survey.

The City proposes to repair and replace various pipelines for both the municipal water system and the wastewater collection system. The municipal water system consists of 19 interconnected wells, 235 miles of water main lines, and more than 14,200 service connections. The work would consist of repair/replacement of existing water mains and service laterals. The exact location of these replacements has not yet been determined, however, all work would be within existing City right of way: streets, alleys, and public

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utilities easements (PUE). The potential to affect historical resources within the City right of way is low.

b) Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?

The cultural resources investigation of the WPCF project area indicates that there is very low potential for the inadvertent discovery of cultural resources during ground breaking activities. No cultural resources were observed during intensive pedestrian survey of the WPCF. Based on these observations, it is recommended that cultural monitoring is unnecessary during future ground disturbing activities associated with the current proposed project.

The City proposes to repair and replace various pipelines for both the municipal water system and the wastewater collection system. The municipal water system consists of 19 interconnected wells, 235 miles of water main lines, and more than 14,200 service connections. The work would consist of repair/replacement of existing water mains and service laterals. The exact location of these replacements has not yet been determined, however, all work would be within existing City right of way: streets, alleys, and public utilities easements (PUE). The potential for accidental discovery of archaeological resources is low.

c) Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

See item (b), above.

d) Would the project disturb any human remains, including those interred outside of formal cemeteries?

See item (b), above. The potential is low, given that the project areas for the WPCF and water/wastewater pipeline replacement consist of previously disturbed areas.

3.6 Geology and Soils

a) *Would the project expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:*

i) *Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.*

The project site is not located on or near a known fault (City of Woodland 1996, p. 9-1)

ii) *Strong seismic ground shaking?*

The project site is not subject to strong seismic ground shaking (City of Woodland 1996, p. 9-1).

iii) *Seismic-related ground failure, including liquefaction?*

The project site is not at a significant risk of ground failure. The WPCF consists of mainly engineered fill, while the water/wastewater pipeline replacement would involve trenches designed per City specifications to avoid such failures.

iv) *Landslides?*

The project area is flat, with little to no risk of landslide (Yolo County 2009).

b) *Would the project result in substantial soil erosion or the loss of topsoil?*

Due to the location and nature of the project contained within existing developed site or roadways, standard construction practices and stormwater protection would be adequate to prevent significant erosion.

c) *Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?*

The project is not located within an unstable geologic unit (City of Woodland 1996, p. 9-1).

d) *Would the project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?*

The WPCF site is in an area with expansive soils (Yolo County 2009). However, the WPCF consists of mainly engineered fill. Compliance with building code standards will

address any potential hazards. The water/wastewater pipeline replacement would occur within trenches designed per City specifications to avoid risks related to expansive soils.

- e) *Would the project have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?*

No septic tanks or alternative wastewater disposal systems are included in the proposed project.

3.7 Greenhouse Gas Emissions

- a) *Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?*

Global climate change is a cumulative impact; a project participates in the potential impact through its incremental contribution combined with the cumulative increase of all other sources of greenhouse gas (GHGs). Thus, GHG impacts are recognized as exclusively cumulative impacts; there are no non-cumulative GHG emission impacts from a climate change perspective (CAPCOA 2008).

Neither the State of California nor the YSAQMD has established CEQA significance thresholds for GHG emissions. The Governor's Office of Planning and Research (OPR) advises, "Even in the absence of clearly defined thresholds for GHG emissions, the law requires that such emissions from CEQA projects must be disclosed and mitigated to the extent feasible whenever the lead agency determines that the project contributes to a significant, cumulative climate change impact" (OPR 2008). Furthermore, the OPR advisory indicates, "In the absence of regulatory standards for GHG emissions or other scientific data to clearly define what constitutes a 'significant impact,' individual lead agencies may undertake a project-by-project analysis, consistent with available guidance and current CEQA practice" (OPR 2008). In addition, CEQA Guidelines Section 15064.4, state that a lead agency has discretion in determining the most appropriate method for assessing the significance of impacts from GHG emissions. Therefore, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the above determinations.

The CEQA Guidelines with respect to GHG emissions state in Section 15064.4(a) that lead agencies should "make a good faith effort, to the extent possible on scientific and factual data, to describe, calculate or estimate" GHG emissions. Section 15064.4(a) further notes that an agency may identify emissions by either selecting a "model or methodology" to quantify the emissions or by relying on "qualitative analysis or other

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performance based standards.” Section 15064.4(b) provides that the lead agency should consider the following when assessing the significance of impacts from GHG emissions on the environment:

- The extent a project may increase or reduce GHG emissions as compared to the environmental setting
- Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project
- The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions.

Thus, in accordance with the first criterion, if the proposed project would result in a net decrease in GHG emission during operation compared to the environmental setting (i.e., existing conditions), it would not result in a significant impact related to global climate change. The construction GHG emissions from the proposed project in the analysis below are not applied to a specific significance threshold; however, this analysis does quantify the maximum annual and total GHG emissions from construction of the proposed project for disclosure purposes.

Construction GHG Emissions

Construction of the proposed project would result in GHG emissions that are primarily associated with the use of construction equipment as well as the operation of worker vehicles and haul trucks. As previously stated in Section 3.3, Air Quality, construction of the WPCF improvements would include installing approximately 2,700 linear feet of new pipeline between existing settling ponds and eight new manholes, performing a soil cement treatment on two existing settling ponds, and upgrading the existing oxidation ditch system to a MLE process. Following the assumptions in Section 3.3, Air Quality, this construction would occur 5 days a week over approximately 15 months in total. Additionally, the proposed project would involve a citywide water/wastewater pipeline repair and replacement, which was assumed to occur on 250 working days in each year of construction.

Estimates presented in Table 3.7-1, Proposed Project Estimated Construction Greenhouse Gas Emissions, include emissions from on-site (off-road equipment) and off-site (on-road haul trucks, delivery trucks, and worker vehicles) sources during construction of the entire proposed project. Details of the construction emission assumptions and calculations are included in Appendix A.

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Table 3.7-1
Proposed Project Estimated Construction Greenhouse Gas Emissions

	MT CO ₂	MT CH ₄	MT N ₂ O	MT CO ₂ E
New Wastewater Pipeline - 2014	11.20	0.01	0.00	11.26
Soil Cement Treatment - 2014	18.73	0.01	0.00	18.84
MLE Upgrades - 2014	31.81	0.01	0.00	31.97
Citywide Pipeline Replacements	191.78	0.05	0.00	192.86
Total 2014	253.52	0.08	0.00	254.93
MLE Upgrades - 2015	47.48	0.01	0.00	47.73
Citywide Pipeline Replacements	191.78	0.05	0.00	192.86
Total 2015	239.26	0.06	0.00	240.59
Proposed Project Total	492.78	0.14	0.00	495.52

Note: See Appendix A for complete results.

MT CO₂ = metric tons carbon dioxide; MT CH₄ = metric tons methane; MT N₂O = metric tons nitrous oxide; MT CO₂E = metric tons carbon dioxide equivalent

As shown in Table 3.7-1, the maximum estimated annual construction GHG emissions for the proposed project would be approximately 255 MT CO₂E per year with the total estimated construction GHG emissions being approximately 496 MT CO₂E.

Operational GHG Emissions

The proposed project would involve the operation of an upgraded MLE process at the WPCF that would replace the existing aeration process. This change is expected to result in an approximately 30% savings in energy usage. The proposed project is not expected to increase the number of operators at the WPCF or generate additional vehicle trips during operation.

The GHG emissions associated with electricity generated to run the blower motors were estimated using the reported CO₂ emissions per kilowatt-hour for PG&E (PG&E 2010). The contributions of methane (CH₄) and N₂O for power plants in California were obtained from the California Climate Action Registry (CCAR) General Reporting Protocol (CCAR 2009) and were adjusted for their global warming potentials (i.e., 21 for CH₄ and 310 for N₂O).

GHG emissions associated with operation of the existing aeration process and the new MLE process were calculated and their estimated annual GHG emissions are shown in Table 3.7-2, Estimated Annual Operational Greenhouse Gas Emissions.

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Table 3.7-2
Estimated Annual Operational Greenhouse Gas Emissions

	Existing Aeration Process	MLE Aeration Process
Estimated Annual Energy Consumption (kWh/year)	4,307,692	3,076,923
Estimated Annual GHG Emissions (MT CO ₂ E/year)	1,259.3	899.5
Net Annual Estimated Emissions (MT CO₂E/year)	-359.8	

Note: See Appendix A for complete results.
MT CO₂E = metric tons carbon dioxide equivalent

Table 3.7-2 shows that the total of the annual GHG emissions from the proposed project and the net annual estimated GHG emissions would decrease with the MLE process upgrades. Therefore, the proposed project decrease GHG emissions compared to existing conditions, and impacts would be less than significant.

b) *Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?*

The Climate Change Scoping Plan, approved by CARB on December 12, 2008, provides an outline for actions to reduce California's GHG emissions. The Scoping Plan provides a framework for actions to reduce California's GHG emissions and requires CARB and other state agencies to adopt regulations and other initiatives to reduce GHGs. As such, the Scoping Plan is not directly applicable to specific projects. Moreover, the Final Statement of Reasons for the amendments to the CEQA Guidelines reiterates the statement in the Initial Statement of Reasons that "[t]he Scoping Plan may not be appropriate for use in determining the significance of individual projects ... because it is conceptual at this stage and relies on the future development of regulations to implement the strategies identified in the Scoping Plan" (CNRA 2009). There are several federal and state regulatory measures aimed at the identification and reduction of GHG emissions; most of these measures focus on area source emissions (e.g., energy usage) and changes to the vehicle fleet (increased use of hybrid, electric, and more fuel-efficient vehicles). While federal and state legislation would ultimately reduce GHG emissions associated with the project, no specific plan, policy, or regulation would be directly applicable to the proposed project.

To date, the City of Woodland has not adopted a Climate Action Plan or GHG reduction plan. No local mandatory GHG regulations, plans, or policies would apply to implementation of the proposed project, and no conflict would occur. Additionally, as demonstrated in Table 3.7-1 and 3.7-2, the proposed project would not exceed the BAAQMD GHG threshold of 10,000 MT CO₂E/year. Therefore, impacts from a potential

conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs would be less than significant.

3.8 Hazards and Hazardous Materials

- a) *Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?*

The proposed project would not require the use of hazardous material. The proposed WPCF improvements would use an improved aeration system.

- b) *Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?*

The proposed project would not require the use of hazardous materials.

- c) *Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?*

The proposed project would not require the use of hazardous materials. In addition, there are no schools within 0.25 miles of the WPCF. The water/wastewater pipeline replacements may be within 0.25 of a school, but would not involve hazardous materials.

- d) *Would the project be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?*

The water/wastewater pipeline replacements may be near properties on the list (also known as the “Cortese List”). However, the work would occur within existing backfilled utility trenches.

- e) *For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?*

The project area is not within an adopted airport land use plan or within two miles of a public airport. The nearest public use airports are Sacramento International Airport, Watts-Woodland Airport and Yolo County Airport. The project area is not within the Area of Influence for these three Airports (SACOG 1994, SACOG 1999).

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- f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?*

The project area is not within the vicinity of a private airstrip.

- g) Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?*

The project would not impair implementation of an emergency response plan. The water/wastewater pipeline replacements may require short-term closures of public streets. These closures are coordinated with City Police Department and Fire Department dispatch.

- h) Would the project expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?*

The project is located in an area of low severity for wildland fire (Yolo County 2009).

3.9 Hydrology and Water Quality

- a) Would the project violate any water quality standards or waste discharge requirements?*

The WPCF is designated as a class V facility – the highest treatment rating in California standards – and holds all required federal and state permits (NPDES No. CA0077950, WDR Order No. R5-209-0010). The proposed improvements would not adversely affect the quality of the discharge. The MLE process has a beneficial effect of lowering the nitrogen content of effluent.

- b) Would the project substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (i.e., the production rate of pre-existing nearby wells would drop to a level that would not support existing land uses or planned uses for which permits have been granted)?*

The City's Municipal Water System relies upon groundwater. The proposed WPCF improvements would not impact groundwater or require additional water supplies.

The water pipeline replacement project may indirectly benefit groundwater supplies by reducing water loss in the system.

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- c) *Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?*

The project would not alter existing drainage patterns, either at the WPCF or within City rights of way.

- d) *Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?*

See item (c), above.

- e) *Would the project create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?*

The project would not expand the amount of impervious surface (with the exception of the construction of the blower building at the WPCF, the effects of which are minimal).

- f) *Would the project otherwise substantially degrade water quality?*

See item (a) above.

- g) *Would the project place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?*

The WPCF is located within the 100 year floodplain, Zone AE (FEMA 2012). The project would not include construction of housing.

- h) *Would the project place within a 100-year flood hazard area structures which would impede or redirect flood flows?*

WPCF facilities are constructed above the base flood elevation, per the City's Floodplain Ordinance. The construction of the blower building would not impede or redirect flows at the WPCF site.

- i) *Would the project expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?*

A portion of the WPCF site is within the inundation area for the Indian Valley Dam (Woodland 1996). The building would be located on approximately four feet of fill to reduce the risk of flood.

- j) *Inundation by seiche, tsunami, or mudflow?*

The project site is not significantly affected by these hazards.

3.10 Land Use and Planning

- a) *Would the project physically divide an established community?*

The WPCF improvement project would occur within the existing WPCF site. The water/wastewater line replacements would occur within existing City right of way. Therefore, the project would not divide an established community.

- b) *Would the project conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?*

The WPCF site is designated as “Public Service” in the General Plan (City of Woodland 2002). The project is consistent with this land use.

The water/wastewater pipeline replacement project would occur throughout the city, which is designated for a variety of land uses. The project would maintain existing service and would not conflict with local plans or policies.

- c) *Would the project conflict with any applicable habitat conservation plan or natural community conservation plan?*

There is no current habitat conservation plan in the project area. There is an interim agreement regarding Swainson’s hawk habitat. However, the project would affect previously developed land uses and thus would not be subject to the provisions of the plan and would not conflict with it.

3.11 Mineral Resources

- a) *Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?*

While aggregate mining is an important activity in Yolo County, there are no known mineral resources within the project area (City of Woodland 1996, p. 8-4).

- b) *Would the project result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?*

There are no locally identified mineral resource areas identified in the Woodland General Plan (City of Woodland 2002).

3.12 Noise

- a) *Would the project result in exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?*

As described below, the proposed project would not expose persons to noise levels in excess of local standards.

- b) *Would the project result in exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?*

The project would not result in exposure to excessive vibration.

- c) *Would the project result in a substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?*

The project would not result in a permanent increase in ambient noise levels.

- d) *Would the project result in a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?*

The project may result in temporary noise increases due to construction. There are no sensitive receptors near the WPCF who would be affected by the proposed project.

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For water/wastewater pipeline replacements, the work would be of limited duration and involve limited heavy equipment. Construction would only occur between 7 a.m. and 6 p.m. (9 a.m. to 6 p.m. Sunday) consistent with the City Noise Ordinance (Section 15-26).

- e) *Would the project be located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?*

The proposed project is not within an airport land use plan (SACOG 1994, 1999).

- f) *Would the project be within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?*

The proposed project is not within the vicinity of a private airstrip.

3.13 Population and Housing

- a) *Would the project induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?*

The WPCF improvement project would not increase the capacity of the facility, and would therefore not create the potential to induce unplanned growth.

- b) *Would the project displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?*

No housing units would be removed as a result of the project.

- c) *Would the project displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?*

No displacement would result from the proposed project.

3.14 Public Services

- a) *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:*

Fire protection?

The project would have no effect on fire protection.

Police protection?

The project would have no effect on police protection.

Schools?

The project would have no effect on schools.

Parks?

The project would have no effect on parks or recreational facilities.

Other public facilities?

The project would have no effect on any public facilities, with the exception of the WPCF, described in Section 3.17.

3.15 Recreation

- a) *Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?*

The project would not be located in or affect an existing recreation facility or create additional demand for park facilities.

- b) *Does the project include recreational facilities or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment?*

The project does not include construction or expansion of recreational facilities.

3.16 Transportation and Traffic

- a) *Would the project conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?*

The project would not create any long-term change in transportation.

- b) *Would the project conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?*

The project would not have a long-term affect congestion management plans or performance standards. Some minor traffic increase may occur as a result of construction, primarily at the WPCF. The WPCF is accessed from Road 102 at East Gibson Road (Road 24). The WPCF access road is approximately 20 feet wide, and is used only by employees and visitors to the WPCF. It is anticipated that approximately 10 worker trips would occur, on average, each day, in addition to equipment and material deliveries. The soil-cement lining of the wastewater ponds would be the most traffic-intensive phase, requiring up to 70 haul trucks during the construction period. The road can easily accommodate additional temporary construction traffic

- c) *Would the project result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?*

The proposed project would not result in changes to air traffic.

- d) *Would the project substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?*

The proposed project would not include construction or changes to existing roadways, or add new land uses.

e) *Would the project result in inadequate emergency access?*

The water/wastewater pipeline replacement project may require short-term closure of local streets. These closures will be coordinated with Police and Fire Department dispatch to ensure adequate emergency access is maintained. Overnight closures are not anticipated.

f) *Would the project conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?*

The proposed project would not affect policies, plans, or programs regarding transit, bicycle, or pedestrian facilities. Water/wastewater pipeline replacements may result in temporary closures of bicycle lanes or sidewalks. These changes would be temporary (typically a day or less) and not significant.

3.17 Utilities and Service Systems

a) *Would the project exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?*

The WPCF improvement project would improve the efficiency of wastewater treatment. The MLE process has the additional benefit of reducing additional nitrogen, which would be a beneficial effect.

b) *Would the project require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?*

The WPCF improvement project would include construction of new pipelines, changes to aeration ditches, construction of blower building, and soil-cement lining of two existing ponds. The effects of these activities are analyzed in this initial study.

c) *Would the project require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?*

The proposed project would not affect storm drain facilities.

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- d) *Would the project have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?*

The project would not increase demand for water. Water pipeline replacements would repair existing service, and would expand the service area.

- e) *Would the project result in a determination by the wastewater treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?*

Per the project description, the WPCF would not increase the capacity of the plant.

- f) *Would the project be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?*

The WPCF would generate some cement debris as part of the aeration ditch improvements. The amount is not expected to impact local solid waste capacities. Cement debris can be recycled or used as erosion protection (rip-rap).

- g) *Would the project comply with federal, state, and local statutes and regulations related to solid waste?*

The contractor will be required to dispose of construction waste in a legal manner, per standard specifications.

3.18 Mandatory Findings of Significance

- a) *Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?*

The proposed project may impact special status species on the WPCF site. This impact would not reduce a local population or reduce potential range.

- b) *Does the project have the potential to achieve short-term environmental goals to the disadvantage of long-term environmental goals?*

The project has long-term environmental benefits, while the impacts are primarily short-term (construction).

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- c) *Does the project have impacts that are individually limited, but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?*

The project effects are primarily short-term, related to construction. No other major utility project would interact with the proposed project. The potential for cumulative impacts is less than significant.

- d) *Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?*

The project would not have an adverse effect on human beings, per this initial study.

4.0 REFERENCES AND PREPARERS

4.1 References Cited

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4.2 List of Preparers

- David Deckman, Dudek. Air Quality.
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- Nicholas Hantern, Dudek. Cultural Resources.
- Austin Melcher, Dudek. Air Quality.

APPENDIX A

Air Quality

APPENDIX A
Air Quality and Greenhouse Gases

APPENDIX A
Air Quality and Greenhouse Gases

Woodland Wastewater Pipeline

Yolo County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	2,700.00	User Defined Unit	0.45	189,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2014
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Pipeline: 2,700 linear feet; 24-30 inch pipe; assumed 7-feet wide trenches.

Construction Phase - Excavation and Pipeline Installation (Grading)

Off-road Equipment - 1 Crane (2 hrs/day); 1 Excavator (8 hrs/day), 1 Roller (2 hrs/day).

Grading - 0.45 acres disturbed

Trips and VMT - 10 worker trips/day (5 workers). 2 vendor trips/day.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	2.00	27.00
tblGrading	AcresOfGrading	0.00	0.45
tblLandUse	LandUseSquareFeet	0.00	189,000.00
tblLandUse	LotAcreage	0.00	0.45

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tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	0.7976	8.5109	5.8319	8.7700e-003	10.9348	0.4219	11.3567	1.1066	0.3881	1.4947	0.0000	911.7525	911.7525	0.2363	0.0000	916.7150
Total	0.7976	8.5109	5.8319	8.7700e-003	10.9348	0.4219	11.3567	1.1066	0.3881	1.4947	0.0000	911.7525	911.7525	0.2363	0.0000	916.7150

Mitigated Construction

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	0.7976	8.5109	5.8319	8.7700e-003	0.1084	0.4219	0.5302	0.0263	0.3881	0.4145	0.0000	911.7525	911.7525	0.2363	0.0000	916.7150
Total	0.7976	8.5109	5.8319	8.7700e-003	0.1084	0.4219	0.5302	0.0263	0.3881	0.4145	0.0000	911.7525	911.7525	0.2363	0.0000	916.7150

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	99.01	0.00	95.33	97.62	0.00	72.27	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading (Pipeline Installation)	Grading	6/1/2014	7/8/2014	5	27	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading (Pipeline Installation)	Cranes	1	2.00	226	0.29
Grading (Pipeline Installation)	Excavators	1	8.00	162	0.38
Grading (Pipeline Installation)	Rollers	1	2.00	80	0.38
Grading (Pipeline Installation)	Concrete/Industrial Saws	0	8.00	81	0.73
Grading (Pipeline Installation)	Rubber Tired Dozers	0	1.00	255	0.40
Grading (Pipeline Installation)	Tractors/Loaders/Backhoes	0	6.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading (Pipeline Installation)	3	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction**3.2 Grading (Pipeline Installation) - 2014****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0177	0.0000	0.0177	1.9100e-003	0.0000	1.9100e-003			0.0000			0.0000
Off-Road	0.7073	8.1839	4.7288	7.3700e-003		0.4162	0.4162		0.3829	0.3829		781.3098	781.3098	0.2309		786.1584
Total	0.7073	8.1839	4.7288	7.3700e-003	0.0177	0.4162	0.4339	1.9100e-003	0.3829	0.3848		781.3098	781.3098	0.2309		786.1584

Unmitigated Construction Off-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0438	0.2633	0.5075	4.8000e-004	1.3021	5.0400e-003	1.3071	0.1323	4.6300e-003	0.1370		49.0075	49.0075	5.0000e-004		49.0181
Worker	0.0465	0.0637	0.5957	9.2000e-004	9.6151	6.7000e-004	9.6157	0.9724	6.1000e-004	0.9730		81.4352	81.4352	4.9200e-003		81.5385
Total	0.0903	0.3270	1.1032	1.4000e-003	10.9171	5.7100e-003	10.9229	1.1047	5.2400e-003	1.1099		130.4427	130.4427	5.4200e-003		130.5566

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0177	0.0000	0.0177	1.9100e-003	0.0000	1.9100e-003			0.0000			0.0000
Off-Road	0.7073	8.1839	4.7288	7.3700e-003		0.4162	0.4162		0.3829	0.3829	0.0000	781.3098	781.3098	0.2309		786.1584
Total	0.7073	8.1839	4.7288	7.3700e-003	0.0177	0.4162	0.4339	1.9100e-003	0.3829	0.3848	0.0000	781.3098	781.3098	0.2309		786.1584

Appendix A

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0438	0.2633	0.5075	4.8000e-004	0.0128	5.0400e-003	0.0179	3.6900e-003	4.6300e-003	8.3200e-003		49.0075	49.0075	5.0000e-004		49.0181
Worker	0.0465	0.0637	0.5957	9.2000e-004	0.0779	6.7000e-004	0.0785	0.0207	6.1000e-004	0.0214		81.4352	81.4352	4.9200e-003		81.5385
Total	0.0903	0.3270	1.1032	1.4000e-003	0.0907	5.7100e-003	0.0964	0.0244	5.2400e-003	0.0297		130.4427	130.4427	5.4200e-003		130.5566

Woodland Wastewater Pipeline Yolo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	2,700.00	User Defined Unit	0.45	189,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2014
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Pipeline: 2,700 linear feet; 24-30 inch pipe; assumed 7-feet wide trenches.

Construction Phase - Excavation and Pipeline Installation (Grading)

Off-road Equipment - 1 Crane (2 hrs/day); 1 Excavator (8 hrs/day), 1 Roller (2 hrs/day).

Grading - 0.45 acres disturbed

Trips and VMT - 10 worker trips/day (5 workers). 2 vendor trips/day.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	2.00	27.00
tblGrading	AcresOfGrading	0.00	0.45
tblLandUse	LandUseSquareFeet	0.00	189,000.00
tblLandUse	LotAcreage	0.00	0.45

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tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2014	0.0106	0.1147	0.0767	1.2000e-004	0.1260	5.7000e-003	0.1317	0.0128	5.2400e-003	0.0180	0.0000	11.1971	11.1971	2.8900e-003	0.0000	11.2579
Total	0.0106	0.1147	0.0767	1.2000e-004	0.1260	5.7000e-003	0.1317	0.0128	5.2400e-003	0.0180	0.0000	11.1971	11.1971	2.8900e-003	0.0000	11.2579

Mitigated Construction

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2014	0.0106	0.1147	0.0767	1.2000e-004	1.4200e-003	5.7000e-003	7.1200e-003	3.5000e-004	5.2400e-003	5.5900e-003	0.0000	11.1971	11.1971	2.8900e-003	0.0000	11.2578
Total	0.0106	0.1147	0.0767	1.2000e-004	1.4200e-003	5.7000e-003	7.1200e-003	3.5000e-004	5.2400e-003	5.5900e-003	0.0000	11.1971	11.1971	2.8900e-003	0.0000	11.2578

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	98.87	0.00	94.59	97.26	0.00	68.96	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading (Pipeline Installation)	Grading	6/1/2014	7/8/2014	5	27	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading (Pipeline Installation)	Cranes	1	2.00	226	0.29
Grading (Pipeline Installation)	Excavators	1	8.00	162	0.38
Grading (Pipeline Installation)	Rollers	1	2.00	80	0.38
Grading (Pipeline Installation)	Concrete/Industrial Saws	0	8.00	81	0.73
Grading (Pipeline Installation)	Rubber Tired Dozers	0	1.00	255	0.40
Grading (Pipeline Installation)	Tractors/Loaders/Backhoes	0	6.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading (Pipeline Installation)	3	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction**3.2 Grading (Pipeline Installation) - 2014****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.4000e-004	0.0000	2.4000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5500e-003	0.1105	0.0638	1.0000e-004		5.6200e-003	5.6200e-003		5.1700e-003	5.1700e-003	0.0000	9.5687	9.5687	2.8300e-003	0.0000	9.6281
Total	9.5500e-003	0.1105	0.0638	1.0000e-004	2.4000e-004	5.6200e-003	5.8600e-003	3.0000e-005	5.1700e-003	5.2000e-003	0.0000	9.5687	9.5687	2.8300e-003	0.0000	9.6281

Unmitigated Construction Off-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.9000e-004	3.5000e-003	5.2000e-003	1.0000e-005	0.0150	7.0000e-005	0.0151	1.5300e-003	6.0000e-005	1.5900e-003	0.0000	0.6028	0.6028	1.0000e-005	0.0000	0.6029
Worker	5.9000e-004	7.7000e-004	7.6200e-003	1.0000e-005	0.1107	1.0000e-005	0.1107	0.0112	1.0000e-005	0.0112	0.0000	1.0256	1.0256	6.0000e-005	0.0000	1.0268
Total	1.0800e-003	4.2700e-003	0.0128	2.0000e-005	0.1257	8.0000e-005	0.1258	0.0128	7.0000e-005	0.0128	0.0000	1.6284	1.6284	7.0000e-005	0.0000	1.6298

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.4000e-004	0.0000	2.4000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5500e-003	0.1105	0.0638	1.0000e-004		5.6200e-003	5.6200e-003		5.1700e-003	5.1700e-003	0.0000	9.5687	9.5687	2.8300e-003	0.0000	9.6281
Total	9.5500e-003	0.1105	0.0638	1.0000e-004	2.4000e-004	5.6200e-003	5.8600e-003	3.0000e-005	5.1700e-003	5.2000e-003	0.0000	9.5687	9.5687	2.8300e-003	0.0000	9.6281

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.9000e-004	3.5000e-003	5.2000e-003	1.0000e-005	1.7000e-004	7.0000e-005	2.4000e-004	5.0000e-005	6.0000e-005	1.1000e-004	0.0000	0.6028	0.6028	1.0000e-005	0.0000	0.6029
Worker	5.9000e-004	7.7000e-004	7.6200e-003	1.0000e-005	1.0200e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	1.0256	1.0256	6.0000e-005	0.0000	1.0268
Total	1.0800e-003	4.2700e-003	0.0128	2.0000e-005	1.1900e-003	8.0000e-005	1.2700e-003	3.2000e-004	7.0000e-005	3.9000e-004	0.0000	1.6284	1.6284	7.0000e-005	0.0000	1.6298

Soil Treatment of Settling Ponds

Yolo County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	2.20	96,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2014
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Typical settlement pond size at the site is 48,000 square feet with two ponds being treated.

Construction Phase - For two ponds staggered construction

Off-road Equipment -

Off-road Equipment - Equipment for simultaneous compacting and finish grading of completed cement areas

Off-road Equipment -

Off-road Equipment - Assumed same as construction of ramp

Off-road Equipment - Rough Grade Site equipment

Off-road Equipment - Spreading and mixing cement equipment

Off-road Equipment - Equipment for spread & mix lime

Trips and VMT - Worker trips per modified equipment lists

Grading - Pond size consistency

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6.00	4.00
tblConstructionPhase	NumDays	6.00	13.00
tblConstructionPhase	NumDays	6.00	10.00
tblConstructionPhase	NumDays	10.00	6.00
tblConstructionPhase	NumDays	10.00	8.00
tblConstructionPhase	NumDays	3.00	2.00
tblConstructionPhase	NumDays	3.00	5.00
tblConstructionPhase	PhaseEndDate	8/15/2014	7/29/2014
tblConstructionPhase	PhaseEndDate	8/22/2014	8/8/2014
tblConstructionPhase	PhaseEndDate	8/15/2014	8/14/2014
tblConstructionPhase	PhaseStartDate	8/8/2014	7/22/2014
tblConstructionPhase	PhaseStartDate	8/13/2014	7/30/2014
tblConstructionPhase	PhaseStartDate	8/9/2014	8/13/2014
tblGrading	AcresOfGrading	1.00	2.50
tblGrading	MaterialImported	0.00	1,389.00
tblLandUse	LandUseSquareFeet	0.00	96,000.00
tblLandUse	LotAcreage	0.00	2.20
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Finish Grade Pond
tblOffRoadEquipment	PhaseName		Finish Grade Pond

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	2.8883	33.1400	19.4809	0.0246	17.3485	1.6262	18.3789	2.6990	1.4961	4.1102	0.0000	2,600.0870	2,600.0870	0.7530	0.0000	2,615.9008
Total	2.8883	33.1400	19.4809	0.0246	17.3485	1.6262	18.3789	2.6990	1.4961	4.1102	0.0000	2,600.0870	2,600.0870	0.7530	0.0000	2,615.9008

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	2.8883	33.1400	19.4809	0.0246	3.7517	1.6262	5.2856	1.7474	1.4961	3.1586	0.0000	2,600.0870	2,600.0870	0.7530	0.0000	2,615.9008
Total	2.8883	33.1400	19.4809	0.0246	3.7517	1.6262	5.2856	1.7474	1.4961	3.1586	0.0000	2,600.0870	2,600.0870	0.7530	0.0000	2,615.9008

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	78.37	0.00	71.24	35.26	0.00	23.15	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Build Access Ramp & Strip Site	Site Preparation	7/14/2014	7/15/2014	5	2	
2	Rough Grade Site	Grading	7/16/2014	7/21/2014	5	4	
3	Lime and Cement Delivery	Grading	7/22/2014	8/7/2014	5	13	
4	Spread & Mix Lime	Paving	7/22/2014	7/29/2014	5	6	
5	Finish Grade Pond	Grading	7/30/2014	8/12/2014	5	10	
6	Spread & Mix Cement	Paving	7/30/2014	8/8/2014	5	8	
7	Remove Ramp & Cleanup	Site Preparation	8/13/2014	8/14/2014	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Build Access Ramp & Strip Site	Graders	1	8.00	174	0.41
Build Access Ramp & Strip Site	Scrapers	1	8.00	361	0.48
Build Access Ramp & Strip Site	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Rough Grade Site	Graders	1	8.00	174	0.41
Rough Grade Site	Rubber Tired Dozers	1	8.00	255	0.40
Rough Grade Site	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Spread & Mix Lime	Cement and Mortar Mixers	1	8.00	9	0.56
Spread & Mix Lime	Pavers	1	8.00	125	0.42
Spread & Mix Lime	Paving Equipment	1	8.00	130	0.36
Spread & Mix Lime	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Finish Grade Pond	Plate Compactors	1	8.00	8	0.43
Finish Grade Pond	Rollers	1	8.00	80	0.38
Spread & Mix Cement	Cement and Mortar Mixers	1	8.00	9	0.56

Appendix A

Spread & Mix Cement	Pavers	1	8.00	125	0.42
Spread & Mix Cement	Paving Equipment	1	8.00	130	0.36
Spread & Mix Cement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Remove Ramp & Cleanup	Graders	1	8.00	174	0.41
Remove Ramp & Cleanup	Scrapers	1	8.00	361	0.48
Remove Ramp & Cleanup	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Build Access Ramp & Strip Site	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grade Site	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lime and Cement Delivery				0.00	10.80	7.30				
Spread & Mix Lime	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Finish Grade Pond	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Spread & Mix Cement	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Remove Ramp & Cleanup	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Build Access Ramp & Strip Site - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7954	0.0000	0.7954	0.0859	0.0000	0.0859			0.0000			0.0000
Off-Road	2.8511	33.0890	19.0044	0.0239		1.6257	1.6257		1.4956	1.4956		2,534.9389	2,534.9389	0.7491		2,550.6700

Appendix A

Total	2.8511	33.0890	19.0044	0.0239	0.7954	1.6257	2.4211	0.0859	1.4956	1.5815		2,534.9389	2,534.9389	0.7491		2,550.6700
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Appendix A

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0372	0.0510	0.4765	7.3000e-004	7.6920	5.4000e-004	7.6926	0.7779	4.9000e-004	0.7784		65.1481	65.1481	3.9400e-003		65.2308
Total	0.0372	0.0510	0.4765	7.3000e-004	7.6920	5.4000e-004	7.6926	0.7779	4.9000e-004	0.7784		65.1481	65.1481	3.9400e-003		65.2308

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7954	0.0000	0.7954	0.0859	0.0000	0.0859			0.0000			0.0000
Off-Road	2.8511	33.0890	19.0044	0.0239		1.6257	1.6257		1.4956	1.4956	0.0000	2,534.9389	2,534.9389	0.7491		2,550.6700
Total	2.8511	33.0890	19.0044	0.0239	0.7954	1.6257	2.4211	0.0859	1.4956	1.5815	0.0000	2,534.9389	2,534.9389	0.7491		2,550.6700

Mitigated Construction Off-Site

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0372	0.0510	0.4765	7.3000e-004	0.0623	5.4000e-004	0.0628	0.0166	4.9000e-004	0.0171		65.1481	65.1481	3.9400e-003		65.2308
Total	0.0372	0.0510	0.4765	7.3000e-004	0.0623	5.4000e-004	0.0628	0.0166	4.9000e-004	0.0171		65.1481	65.1481	3.9400e-003		65.2308

3.3 Rough Grade Site - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6739	0.0000	3.6739	1.7267	0.0000	1.7267			0.0000			0.0000
Off-Road	2.6604	28.5366	18.1810	0.0179		1.5332	1.5332		1.4106	1.4106		1,897.6910	1,897.6910	0.5608		1,909.4676
Total	2.6604	28.5366	18.1810	0.0179	3.6739	1.5332	5.2071	1.7267	1.4106	3.1372		1,897.6910	1,897.6910	0.5608		1,909.4676

Unmitigated Construction Off-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0465	0.0637	0.5957	9.2000e-004	9.6151	6.7000e-004	9.6157	0.9724	6.1000e-004	0.9730		81.4352	81.4352	4.9200e-003		81.5385
Total	0.0465	0.0637	0.5957	9.2000e-004	9.6151	6.7000e-004	9.6157	0.9724	6.1000e-004	0.9730		81.4352	81.4352	4.9200e-003		81.5385

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6739	0.0000	3.6739	1.7267	0.0000	1.7267			0.0000			0.0000
Off-Road	2.6604	28.5366	18.1810	0.0179		1.5332	1.5332		1.4106	1.4106	0.0000	1,897.6910	1,897.6910	0.5608		1,909.4676
Total	2.6604	28.5366	18.1810	0.0179	3.6739	1.5332	5.2071	1.7267	1.4106	3.1372	0.0000	1,897.6910	1,897.6910	0.5608		1,909.4676

Mitigated Construction Off-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0465	0.0637	0.5957	9.2000e-004	0.0779	6.7000e-004	0.0785	0.0207	6.1000e-004	0.0214		81.4352	81.4352	4.9200e-003		81.5385
Total	0.0465	0.0637	0.5957	9.2000e-004	0.0779	6.7000e-004	0.0785	0.0207	6.1000e-004	0.0214		81.4352	81.4352	4.9200e-003		81.5385

3.4 Lime and Cement Delivery - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0415	0.0000	0.0415	6.2800e-003	0.0000	6.2800e-003			0.0000			0.0000
Total					0.0415	0.0000	0.0415	6.2800e-003	0.0000	6.2800e-003			0.0000			0.0000

Unmitigated Construction Off-Site

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0415	0.0000	0.0415	6.2800e-003	0.0000	6.2800e-003			0.0000			0.0000
Total					0.0415	0.0000	0.0415	6.2800e-003	0.0000	6.2800e-003			0.0000			0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000

3.5 Spread & Mix Lime - 2014**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2356	13.5217	8.1711	0.0124		0.7642	0.7642		0.7044	0.7044		1,285.1719	1,285.1719	0.3702		1,292.9458
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2356	13.5217	8.1711	0.0124		0.7642	0.7642		0.7044	0.7044		1,285.1719	1,285.1719	0.3702		1,292.9458

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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0465	0.0637	0.5957	9.2000e-004	9.6151	6.7000e-004	9.6157	0.9724	6.1000e-004	0.9730		81.4352	81.4352	4.9200e-003		81.5385
Total	0.0465	0.0637	0.5957	9.2000e-004	9.6151	6.7000e-004	9.6157	0.9724	6.1000e-004	0.9730		81.4352	81.4352	4.9200e-003		81.5385

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2356	13.5217	8.1711	0.0124		0.7642	0.7642		0.7044	0.7044	0.0000	1,285.1719	1,285.1719	0.3702		1,292.9458
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2356	13.5217	8.1711	0.0124		0.7642	0.7642		0.7044	0.7044	0.0000	1,285.1719	1,285.1719	0.3702		1,292.9458

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0465	0.0637	0.5957	9.2000e-004	0.0779	6.7000e-004	0.0785	0.0207	6.1000e-004	0.0214		81.4352	81.4352	4.9200e-003		81.5385
Total	0.0465	0.0637	0.5957	9.2000e-004	0.0779	6.7000e-004	0.0785	0.0207	6.1000e-004	0.0214		81.4352	81.4352	4.9200e-003		81.5385

3.6 Finish Grade Pond - 2014**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4127	3.6776	2.2528	3.1000e-003		0.2649	0.2649		0.2445	0.2445		312.6342	312.6342	0.0858		314.4355
Total	0.4127	3.6776	2.2528	3.1000e-003	0.0000	0.2649	0.2649	0.0000	0.2445	0.2445		312.6342	312.6342	0.0858		314.4355

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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0372	0.0510	0.4765	7.3000e-004	7.6920	5.4000e-004	7.6926	0.7779	4.9000e-004	0.7784		65.1481	65.1481	3.9400e-003		65.2308
Total	0.0372	0.0510	0.4765	7.3000e-004	7.6920	5.4000e-004	7.6926	0.7779	4.9000e-004	0.7784		65.1481	65.1481	3.9400e-003		65.2308

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4127	3.6776	2.2528	3.1000e-003		0.2649	0.2649		0.2445	0.2445	0.0000	312.6342	312.6342	0.0858		314.4355
Total	0.4127	3.6776	2.2528	3.1000e-003	0.0000	0.2649	0.2649	0.0000	0.2445	0.2445	0.0000	312.6342	312.6342	0.0858		314.4355

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0372	0.0510	0.4765	7.3000e-004	0.0623	5.4000e-004	0.0628	0.0166	4.9000e-004	0.0171		65.1481	65.1481	3.9400e-003		65.2308
Total	0.0372	0.0510	0.4765	7.3000e-004	0.0623	5.4000e-004	0.0628	0.0166	4.9000e-004	0.0171		65.1481	65.1481	3.9400e-003		65.2308

3.7 Spread & Mix Cement - 2014**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2356	13.5217	8.1711	0.0124		0.7642	0.7642		0.7044	0.7044		1,285.1719	1,285.1719	0.3702		1,292.9458
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2356	13.5217	8.1711	0.0124		0.7642	0.7642		0.7044	0.7044		1,285.1719	1,285.1719	0.3702		1,292.9458

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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0465	0.0637	0.5957	9.2000e-004	9.6151	6.7000e-004	9.6157	0.9724	6.1000e-004	0.9730		81.4352	81.4352	4.9200e-003		81.5385
Total	0.0465	0.0637	0.5957	9.2000e-004	9.6151	6.7000e-004	9.6157	0.9724	6.1000e-004	0.9730		81.4352	81.4352	4.9200e-003		81.5385

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2356	13.5217	8.1711	0.0124		0.7642	0.7642		0.7044	0.7044	0.0000	1,285.1719	1,285.1719	0.3702		1,292.9458
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2356	13.5217	8.1711	0.0124		0.7642	0.7642		0.7044	0.7044	0.0000	1,285.1719	1,285.1719	0.3702		1,292.9458

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0465	0.0637	0.5957	9.2000e-004	0.0779	6.7000e-004	0.0785	0.0207	6.1000e-004	0.0214		81.4352	81.4352	4.9200e-003		81.5385
Total	0.0465	0.0637	0.5957	9.2000e-004	0.0779	6.7000e-004	0.0785	0.0207	6.1000e-004	0.0214		81.4352	81.4352	4.9200e-003		81.5385

3.8 Remove Ramp & Cleanup - 2014**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3182	0.0000	0.3182	0.0344	0.0000	0.0344			0.0000			0.0000
Off-Road	2.8511	33.0890	19.0044	0.0239		1.6257	1.6257		1.4956	1.4956		2,534.9389	2,534.9389	0.7491		2,550.6700
Total	2.8511	33.0890	19.0044	0.0239	0.3182	1.6257	1.9438	0.0344	1.4956	1.5300		2,534.9389	2,534.9389	0.7491		2,550.6700

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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0372	0.0510	0.4765	7.3000e-004	7.6920	5.4000e-004	7.6926	0.7779	4.9000e-004	0.7784		65.1481	65.1481	3.9400e-003		65.2308
Total	0.0372	0.0510	0.4765	7.3000e-004	7.6920	5.4000e-004	7.6926	0.7779	4.9000e-004	0.7784		65.1481	65.1481	3.9400e-003		65.2308

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3182	0.0000	0.3182	0.0344	0.0000	0.0344			0.0000			0.0000
Off-Road	2.8511	33.0890	19.0044	0.0239		1.6257	1.6257		1.4956	1.4956	0.0000	2,534.9389	2,534.9389	0.7491		2,550.6700
Total	2.8511	33.0890	19.0044	0.0239	0.3182	1.6257	1.9438	0.0344	1.4956	1.5300	0.0000	2,534.9389	2,534.9389	0.7491		2,550.6700

Appendix A

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0372	0.0510	0.4765	7.3000e-004	0.0623	5.4000e-004	0.0628	0.0166	4.9000e-004	0.0171		65.1481	65.1481	3.9400e-003		65.2308
Total	0.0372	0.0510	0.4765	7.3000e-004	0.0623	5.4000e-004	0.0628	0.0166	4.9000e-004	0.0171		65.1481	65.1481	3.9400e-003		65.2308

Soil Treatment of Settling Ponds

Yolo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	2.20	96,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2014
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Typical settlement pond size at the site is 48,000 square feet with two ponds being treated.

Construction Phase - For two ponds staggered construction

Off-road Equipment -

Off-road Equipment - Equipment for simultaneous compacting and finish grading of completed cement areas

Off-road Equipment -

Off-road Equipment - Assumed same as construction of ramp

Off-road Equipment - Rough Grade Site equipment

Off-road Equipment - Spreading and mixing cement equipment

Off-road Equipment - Equipment for spread & mix lime

Trips and VMT - Worker trips per modified equipment lists

Grading - Pond size consistency

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6.00	4.00
tblConstructionPhase	NumDays	6.00	13.00
tblConstructionPhase	NumDays	6.00	10.00
tblConstructionPhase	NumDays	10.00	6.00
tblConstructionPhase	NumDays	10.00	8.00
tblConstructionPhase	NumDays	3.00	2.00
tblConstructionPhase	NumDays	3.00	5.00
tblConstructionPhase	PhaseEndDate	8/15/2014	7/29/2014
tblConstructionPhase	PhaseEndDate	8/22/2014	8/8/2014
tblConstructionPhase	PhaseEndDate	8/15/2014	8/14/2014
tblConstructionPhase	PhaseStartDate	8/8/2014	7/22/2014
tblConstructionPhase	PhaseStartDate	8/13/2014	7/30/2014
tblConstructionPhase	PhaseStartDate	8/9/2014	8/13/2014
tblGrading	AcresOfGrading	1.00	2.50
tblGrading	MaterialImported	0.00	1,389.00
tblLandUse	LandUseSquareFeet	0.00	96,000.00
tblLandUse	LotAcreage	0.00	2.20
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Finish Grade Pond
tblOffRoadEquipment	PhaseName		Finish Grade Pond

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2014	0.0224	0.2371	0.1511	2.0000e-004	0.1285	0.0130	0.1415	0.0158	0.0120	0.0277	0.0000	18.7309	18.7309	5.1800e-003	0.0000	18.8397
Total	0.0224	0.2371	0.1511	2.0000e-004	0.1285	0.0130	0.1415	0.0158	0.0120	0.0277	0.0000	18.7309	18.7309	5.1800e-003	0.0000	18.8397

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2014	0.0224	0.2371	0.1511	2.0000e-004	9.8300e-003	0.0130	0.0228	3.9100e-003	0.0120	0.0159	0.0000	18.7309	18.7309	5.1800e-003	0.0000	18.8397
Total	0.0224	0.2371	0.1511	2.0000e-004	9.8300e-003	0.0130	0.0228	3.9100e-003	0.0120	0.0159	0.0000	18.7309	18.7309	5.1800e-003	0.0000	18.8397

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	92.35	0.00	83.86	75.17	0.00	42.71	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Build Access Ramp & Strip Site	Site Preparation	7/14/2014	7/15/2014	5	2	
2	Rough Grade Site	Grading	7/16/2014	7/21/2014	5	4	
3	Lime and Cement Delivery	Grading	7/22/2014	8/7/2014	5	13	
4	Spread & Mix Lime	Paving	7/22/2014	7/29/2014	5	6	
5	Finish Grade Pond	Grading	7/30/2014	8/12/2014	5	10	
6	Spread & Mix Cement	Paving	7/30/2014	8/8/2014	5	8	
7	Remove Ramp & Cleanup	Site Preparation	8/13/2014	8/14/2014	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Build Access Ramp & Strip Site	Graders	1	8.00	174	0.41
Build Access Ramp & Strip Site	Scrapers	1	8.00	361	0.48
Build Access Ramp & Strip Site	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Rough Grade Site	Graders	1	8.00	174	0.41
Rough Grade Site	Rubber Tired Dozers	1	8.00	255	0.40
Rough Grade Site	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Spread & Mix Lime	Cement and Mortar Mixers	1	8.00	9	0.56
Spread & Mix Lime	Pavers	1	8.00	125	0.42
Spread & Mix Lime	Paving Equipment	1	8.00	130	0.36
Spread & Mix Lime	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Finish Grade Pond	Plate Compactors	1	8.00	8	0.43
Finish Grade Pond	Rollers	1	8.00	80	0.38
Spread & Mix Cement	Cement and Mortar Mixers	1	8.00	9	0.56

Appendix A

Spread & Mix Cement	Pavers	1	8.00	125	0.42
Spread & Mix Cement	Paving Equipment	1	8.00	130	0.36
Spread & Mix Cement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Remove Ramp & Cleanup	Graders	1	8.00	174	0.41
Remove Ramp & Cleanup	Scrapers	1	8.00	361	0.48
Remove Ramp & Cleanup	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Build Access Ramp & Strip Site	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grade Site	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lime and Cement Delivery				0.00	10.80	7.30				
Spread & Mix Lime	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Finish Grade Pond	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Spread & Mix Cement	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Remove Ramp & Cleanup	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Build Access Ramp & Strip Site - 2014

Unmitigated Construction On-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.0000e-004	0.0000	8.0000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8500e-003	0.0331	0.0190	2.0000e-005		1.6300e-003	1.6300e-003		1.5000e-003	1.5000e-003	0.0000	2.2997	2.2997	6.8000e-004	0.0000	2.3139
Total	2.8500e-003	0.0331	0.0190	2.0000e-005	8.0000e-004	1.6300e-003	2.4300e-003	9.0000e-005	1.5000e-003	1.5900e-003	0.0000	2.2997	2.2997	6.8000e-004	0.0000	2.3139

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	5.0000e-005	4.5000e-004	0.0000	6.5600e-003	0.0000	6.5600e-003	6.6000e-004	0.0000	6.7000e-004	0.0000	0.0608	0.0608	0.0000	0.0000	0.0609
Total	4.0000e-005	5.0000e-005	4.5000e-004	0.0000	6.5600e-003	0.0000	6.5600e-003	6.6000e-004	0.0000	6.7000e-004	0.0000	0.0608	0.0608	0.0000	0.0000	0.0609

Mitigated Construction On-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.0000e-004	0.0000	8.0000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8500e-003	0.0331	0.0190	2.0000e-005		1.6300e-003	1.6300e-003		1.5000e-003	1.5000e-003	0.0000	2.2997	2.2997	6.8000e-004	0.0000	2.3139
Total	2.8500e-003	0.0331	0.0190	2.0000e-005	8.0000e-004	1.6300e-003	2.4300e-003	9.0000e-005	1.5000e-003	1.5900e-003	0.0000	2.2997	2.2997	6.8000e-004	0.0000	2.3139

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	5.0000e-005	4.5000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0608	0.0608	0.0000	0.0000	0.0609
Total	4.0000e-005	5.0000e-005	4.5000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0608	0.0608	0.0000	0.0000	0.0609

3.3 Rough Grade Site - 2014

Unmitigated Construction On-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.3500e-003	0.0000	7.3500e-003	3.4500e-003	0.0000	3.4500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3200e-003	0.0571	0.0364	4.0000e-005		3.0700e-003	3.0700e-003		2.8200e-003	2.8200e-003	0.0000	3.4431	3.4431	1.0200e-003	0.0000	3.4645
Total	5.3200e-003	0.0571	0.0364	4.0000e-005	7.3500e-003	3.0700e-003	0.0104	3.4500e-003	2.8200e-003	6.2700e-003	0.0000	3.4431	3.4431	1.0200e-003	0.0000	3.4645

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	1.1000e-004	1.1300e-003	0.0000	0.0164	0.0000	0.0164	1.6600e-003	0.0000	1.6600e-003	0.0000	0.1519	0.1519	1.0000e-005	0.0000	0.1521
Total	9.0000e-005	1.1000e-004	1.1300e-003	0.0000	0.0164	0.0000	0.0164	1.6600e-003	0.0000	1.6600e-003	0.0000	0.1519	0.1519	1.0000e-005	0.0000	0.1521

Mitigated Construction On-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.3500e-003	0.0000	7.3500e-003	3.4500e-003	0.0000	3.4500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3200e-003	0.0571	0.0364	4.0000e-005		3.0700e-003	3.0700e-003		2.8200e-003	2.8200e-003	0.0000	3.4431	3.4431	1.0200e-003	0.0000	3.4645
Total	5.3200e-003	0.0571	0.0364	4.0000e-005	7.3500e-003	3.0700e-003	0.0104	3.4500e-003	2.8200e-003	6.2700e-003	0.0000	3.4431	3.4431	1.0200e-003	0.0000	3.4645

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	1.1000e-004	1.1300e-003	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1519	0.1519	1.0000e-005	0.0000	0.1521
Total	9.0000e-005	1.1000e-004	1.1300e-003	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1519	0.1519	1.0000e-005	0.0000	0.1521

3.4 Lime and Cement Delivery - 2014**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					2.7000e-004	0.0000	2.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Appendix A

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					2.7000e-004	0.0000	2.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.5 Spread & Mix Lime - 2014**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.7100e-003	0.0406	0.0245	4.0000e-005		2.2900e-003	2.2900e-003		2.1100e-003	2.1100e-003	0.0000	3.4977	3.4977	1.0100e-003	0.0000	3.5188
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.7100e-003	0.0406	0.0245	4.0000e-005		2.2900e-003	2.2900e-003		2.1100e-003	2.1100e-003	0.0000	3.4977	3.4977	1.0100e-003	0.0000	3.5188

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	1.7000e-004	1.6900e-003	0.0000	0.0246	0.0000	0.0246	2.4900e-003	0.0000	2.4900e-003	0.0000	0.2279	0.2279	1.0000e-005	0.0000	0.2282
Total	1.3000e-004	1.7000e-004	1.6900e-003	0.0000	0.0246	0.0000	0.0246	2.4900e-003	0.0000	2.4900e-003	0.0000	0.2279	0.2279	1.0000e-005	0.0000	0.2282

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.7100e-003	0.0406	0.0245	4.0000e-005		2.2900e-003	2.2900e-003		2.1100e-003	2.1100e-003	0.0000	3.4977	3.4977	1.0100e-003	0.0000	3.5188
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.7100e-003	0.0406	0.0245	4.0000e-005		2.2900e-003	2.2900e-003		2.1100e-003	2.1100e-003	0.0000	3.4977	3.4977	1.0100e-003	0.0000	3.5188

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	1.7000e-004	1.6900e-003	0.0000	2.3000e-004	0.0000	2.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2279	0.2279	1.0000e-005	0.0000	0.2282
Total	1.3000e-004	1.7000e-004	1.6900e-003	0.0000	2.3000e-004	0.0000	2.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2279	0.2279	1.0000e-005	0.0000	0.2282

3.6 Finish Grade Pond - 2014**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0600e-003	0.0184	0.0113	2.0000e-005		1.3200e-003	1.3200e-003		1.2200e-003	1.2200e-003	0.0000	1.4181	1.4181	3.9000e-004	0.0000	1.4263
Total	2.0600e-003	0.0184	0.0113	2.0000e-005	0.0000	1.3200e-003	1.3200e-003	0.0000	1.2200e-003	1.2200e-003	0.0000	1.4181	1.4181	3.9000e-004	0.0000	1.4263

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	2.3000e-004	2.2600e-003	0.0000	0.0328	0.0000	0.0328	3.3200e-003	0.0000	3.3300e-003	0.0000	0.3039	0.3039	2.0000e-005	0.0000	0.3043
Total	1.8000e-004	2.3000e-004	2.2600e-003	0.0000	0.0328	0.0000	0.0328	3.3200e-003	0.0000	3.3300e-003	0.0000	0.3039	0.3039	2.0000e-005	0.0000	0.3043

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0600e-003	0.0184	0.0113	2.0000e-005		1.3200e-003	1.3200e-003		1.2200e-003	1.2200e-003	0.0000	1.4181	1.4181	3.9000e-004	0.0000	1.4263
Total	2.0600e-003	0.0184	0.0113	2.0000e-005	0.0000	1.3200e-003	1.3200e-003	0.0000	1.2200e-003	1.2200e-003	0.0000	1.4181	1.4181	3.9000e-004	0.0000	1.4263

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	2.3000e-004	2.2600e-003	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.3039	0.3039	2.0000e-005	0.0000	0.3043
Total	1.8000e-004	2.3000e-004	2.2600e-003	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.3039	0.3039	2.0000e-005	0.0000	0.3043

3.7 Spread & Mix Cement - 2014**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.9400e-003	0.0541	0.0327	5.0000e-005		3.0600e-003	3.0600e-003		2.8200e-003	2.8200e-003	0.0000	4.6636	4.6636	1.3400e-003	0.0000	4.6918
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.9400e-003	0.0541	0.0327	5.0000e-005		3.0600e-003	3.0600e-003		2.8200e-003	2.8200e-003	0.0000	4.6636	4.6636	1.3400e-003	0.0000	4.6918

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	2.3000e-004	2.2600e-003	0.0000	0.0328	0.0000	0.0328	3.3200e-003	0.0000	3.3300e-003	0.0000	0.3039	0.3039	2.0000e-005	0.0000	0.3043
Total	1.8000e-004	2.3000e-004	2.2600e-003	0.0000	0.0328	0.0000	0.0328	3.3200e-003	0.0000	3.3300e-003	0.0000	0.3039	0.3039	2.0000e-005	0.0000	0.3043

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.9400e-003	0.0541	0.0327	5.0000e-005		3.0600e-003	3.0600e-003		2.8200e-003	2.8200e-003	0.0000	4.6636	4.6636	1.3400e-003	0.0000	4.6918
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.9400e-003	0.0541	0.0327	5.0000e-005		3.0600e-003	3.0600e-003		2.8200e-003	2.8200e-003	0.0000	4.6636	4.6636	1.3400e-003	0.0000	4.6918

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	2.3000e-004	2.2600e-003	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.3039	0.3039	2.0000e-005	0.0000	0.3043
Total	1.8000e-004	2.3000e-004	2.2600e-003	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.3039	0.3039	2.0000e-005	0.0000	0.3043

3.8 Remove Ramp & Cleanup - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.2000e-004	0.0000	3.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8500e-003	0.0331	0.0190	2.0000e-005		1.6300e-003	1.6300e-003		1.5000e-003	1.5000e-003	0.0000	2.2997	2.2997	6.8000e-004	0.0000	2.3139
Total	2.8500e-003	0.0331	0.0190	2.0000e-005	3.2000e-004	1.6300e-003	1.9500e-003	3.0000e-005	1.5000e-003	1.5300e-003	0.0000	2.2997	2.2997	6.8000e-004	0.0000	2.3139

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	5.0000e-005	4.5000e-004	0.0000	6.5600e-003	0.0000	6.5600e-003	6.6000e-004	0.0000	6.7000e-004	0.0000	0.0608	0.0608	0.0000	0.0000	0.0609
Total	4.0000e-005	5.0000e-005	4.5000e-004	0.0000	6.5600e-003	0.0000	6.5600e-003	6.6000e-004	0.0000	6.7000e-004	0.0000	0.0608	0.0608	0.0000	0.0000	0.0609

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.2000e-004	0.0000	3.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8500e-003	0.0331	0.0190	2.0000e-005		1.6300e-003	1.6300e-003		1.5000e-003	1.5000e-003	0.0000	2.2997	2.2997	6.8000e-004	0.0000	2.3139
Total	2.8500e-003	0.0331	0.0190	2.0000e-005	3.2000e-004	1.6300e-003	1.9500e-003	3.0000e-005	1.5000e-003	1.5300e-003	0.0000	2.2997	2.2997	6.8000e-004	0.0000	2.3139

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	5.0000e-005	4.5000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0608	0.0608	0.0000	0.0000	0.0609
Total	4.0000e-005	5.0000e-005	4.5000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0608	0.0608	0.0000	0.0000	0.0609

MLE Construction

Yolo County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.70	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2015
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Single pond acreage and estimated blower building plus internal piping acreage. Concrete removal square footage per pond.

Construction Phase - Blower Building Construction

Off-road Equipment -

Off-road Equipment - 0.26 acre pad

Off-road Equipment - 0.26 acre pad

Off-road Equipment - 0.26 acre pad

Off-road Equipment - internal piping of blower building pumps to pond

Off-road Equipment - demolition and removal of existing aeration equipment

Off-road Equipment - ditch reconstruction, installation of MLE equipment, and finishing

Off-road Equipment - internal piping of blower building pumps to pond

Appendix A

Off-road Equipment - demolition and removal of existing aeration equipment
Off-road Equipment - ditch reconstruction, installation of MLE equipment, and finishing
Off-road Equipment - internal piping of blower building pumps to pond
Off-road Equipment - demolition and removal of existing aeration equipment
Off-road Equipment - ditch reconstruction, installation of MLE equipment, and finishing
Off-road Equipment - internal piping of blower building pumps to pond
Off-road Equipment - demolition and removal of existing aeration equipment
Off-road Equipment - ditch reconstruction, installation of MLE equipment, and finishing
Grading -
Demolition -
Trips and VMT - vendor trips for material delivery, haul trip for demolition material removal
Area Coating -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstructionPhase	NumDays	100.00	30.00
tblConstructionPhase	NumDays	100.00	30.00
tblConstructionPhase	NumDays	100.00	30.00
tblConstructionPhase	NumDays	100.00	30.00
tblConstructionPhase	NumDays	100.00	30.00
tblConstructionPhase	PhaseEndDate	1/14/2015	1/27/2015
tblConstructionPhase	PhaseEndDate	4/7/2015	4/20/2015
tblConstructionPhase	PhaseEndDate	6/29/2015	7/10/2015
tblConstructionPhase	PhaseStartDate	1/1/2015	1/14/2015
tblConstructionPhase	PhaseStartDate	3/25/2015	4/7/2015
tblConstructionPhase	PhaseStartDate	6/16/2015	6/29/2015
tblConstructionPhase	PhaseStartDate	7/11/2015	7/13/2015
tblConstructionPhase	PhaseStartDate	7/25/2015	7/27/2015
tblLandUse	LandUseSquareFeet	0.00	2,000.00
tblLandUse	LotAcreage	0.00	0.70
tblOffRoadEquipment	HorsePower	81.00	16.00

Appendix A

tblOffRoadEquipment	HorsePower	81.00	16.00
tblOffRoadEquipment	HorsePower	81.00	16.00
tblOffRoadEquipment	HorsePower	81.00	16.00
tblOffRoadEquipment	HorsePower	81.00	16.00
tblOffRoadEquipment	HorsePower	81.00	16.00
tblOffRoadEquipment	HorsePower	81.00	16.00
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment

Appendix A

tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Pond 2 MLE Construction
tblOffRoadEquipment	PhaseName		Pond 3 MLE Construction
tblOffRoadEquipment	PhaseName		Pond 4 MLE Construction
tblOffRoadEquipment	PhaseName		Pond 1 MLE Construction
tblOffRoadEquipment	PhaseName		Internal Piping to Pond 1
tblOffRoadEquipment	PhaseName		Internal Piping to Pond 1
tblOffRoadEquipment	PhaseName		Internal Piping to Pond 1
tblOffRoadEquipment	PhaseName		Internal Piping to Pond 1
tblOffRoadEquipment	PhaseName		Pond 1 Demo

Appendix A

tblOffRoadEquipment	PhaseName		Pond 1 MLE Construction
tblOffRoadEquipment	PhaseName		Internal Piping to Pond 2
tblOffRoadEquipment	PhaseName		Internal Piping to Pond 2
tblOffRoadEquipment	PhaseName		Internal Piping to Pond 2
tblOffRoadEquipment	PhaseName		Internal Piping to Pond 2
tblOffRoadEquipment	PhaseName		Pond 2 Demo
tblOffRoadEquipment	PhaseName		Pond 2 MLE Construction
tblOffRoadEquipment	PhaseName		Internal Piping to Pond 3
tblOffRoadEquipment	PhaseName		Internal Piping to Pond 3
tblOffRoadEquipment	PhaseName		Internal Piping to Pond 3
tblOffRoadEquipment	PhaseName		Internal Piping to Pond 3
tblOffRoadEquipment	PhaseName		Pond 3 Demo
tblOffRoadEquipment	PhaseName		Pond 3 MLE Construction
tblOffRoadEquipment	PhaseName		Internal Piping to Pond 4
tblOffRoadEquipment	PhaseName		Pond 4 MLE Construction
tblOffRoadEquipment	PhaseName		Internal Piping to Pond 4
tblOffRoadEquipment	PhaseName		Internal Piping to Pond 4
tblOffRoadEquipment	PhaseName		Internal Piping to Pond 4
tblOffRoadEquipment	PhaseName		Pond 4 Demo
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	4.00	2.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	4.00	1.00
tblOffRoadEquipment	UsageHours	4.00	1.00
tblOffRoadEquipment	UsageHours	4.00	1.00
tblOffRoadEquipment	UsageHours	4.00	1.00
tblOffRoadEquipment	UsageHours	8.00	6.00

Appendix A

tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	OperationalYear	2014	2015
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	PhaseName		Internal Piping to Pond 3
tblTripsAndVMT	PhaseName		Internal Piping to Pond 4
tblTripsAndVMT	PhaseName		Internal Piping to Pond 1
tblTripsAndVMT	PhaseName		Internal Piping to Pond 2
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	WorkerTripNumber	1.00	10.00
tblTripsAndVMT	WorkerTripNumber	18.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	1.00	10.00
tblTripsAndVMT	WorkerTripNumber	1.00	10.00
tblTripsAndVMT	WorkerTripNumber	1.00	10.00
tblTripsAndVMT	WorkerTripNumber	1.00	10.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	5.8907	14.5136	9.4484	0.0130	10.9172	0.9311	11.6332	1.3861	0.8910	2.2771	0.0000	1,288.6820	1,288.6820	0.2966	0.0000	1,294.9096
2015	0.7386	7.3560	5.5402	8.2500e-003	10.9172	0.4444	11.3615	1.1047	0.4094	1.5141	0.0000	851.4378	851.4378	0.2349	0.0000	856.3701
Total	6.6293	21.8696	14.9887	0.0212	21.8343	1.3755	22.9947	2.4908	1.3004	3.7912	0.0000	2,140.1198	2,140.1198	0.5314	0.0000	2,151.2797

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	5.8907	14.5136	9.4484	0.0130	0.8306	0.9311	1.7617	0.4345	0.8910	1.3255	0.0000	1,288.6820	1,288.6820	0.2966	0.0000	1,294.9096
2015	0.7386	5.6965	5.5402	8.2500e-003	0.1372	0.4444	0.5350	0.0299	0.4094	0.4339	0.0000	851.4378	851.4378	0.2349	0.0000	856.3701
Total	6.6293	20.2101	14.9887	0.0212	0.9678	1.3755	2.2968	0.4645	1.3004	1.7593	0.0000	2,140.1198	2,140.1198	0.5314	0.0000	2,151.2797

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	7.59	0.00	0.00	95.57	0.00	90.01	81.35	0.00	53.59	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Appendix A

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Blower Building Site Prep	Site Preparation	8/25/2014	8/25/2014	5	1	
2	Blower Building Grading	Grading	8/26/2014	8/27/2014	5	2	
3	Blower Building Pad	Paving	8/28/2014	9/3/2014	5	5	
4	Blower Building Construction	Building Construction	9/4/2014	10/15/2014	5	30	
5	Blower Building Arch. Coat.	Architectural Coating	10/16/2014	10/22/2014	5	5	
6	Internal Piping to Pond 1	Trenching	10/23/2014	11/5/2014	5	10	
7	Pond 1 Demo	Demolition	11/6/2014	11/19/2014	5	10	
8	Pond 1 MLE Construction	Building Construction	11/20/2014	12/31/2014	5	30	
9	Internal Piping to Pond 2	Trenching	1/14/2015	1/27/2015	5	10	
10	Pond 2 Demo	Demolition	1/28/2015	2/10/2015	5	10	
11	Pond 2 MLE Construction	Building Construction	2/11/2015	3/24/2015	5	30	
12	Internal Piping to Pond 3	Trenching	4/7/2015	4/20/2015	5	10	
13	Pond 3 Demo	Demolition	4/21/2015	5/4/2015	5	10	
14	Pond 3 MLE Construction	Building Construction	5/5/2015	6/15/2015	5	30	
15	Internal Piping to Pond 4	Trenching	6/29/2015	7/10/2015	5	10	
16	Pond 4 Demo	Demolition	7/13/2015	7/24/2015	5	10	
17	Pond 4 MLE Construction	Building Construction	7/27/2015	9/4/2015	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,000; Non-Residential Outdoor: 1,000 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Internal Piping to Pond 3	Excavators	1	8.00	162	0.38
Internal Piping to Pond 3	Concrete/Industrial Saws	1	1.00	16	0.73
Internal Piping to Pond 3	Paving Equipment	1	1.00	130	0.36

Appendix A

Internal Piping to Pond 3	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Pond 3 Demo	Cranes	1	2.00	226	0.29
Pond 3 MLE Construction	Cement and Mortar Mixers	1	4.00	9	0.56
Pond 3 MLE Construction	Paving Equipment	1	2.00	130	0.36
Internal Piping to Pond 4	Excavators	1	8.00	162	0.38
Internal Piping to Pond 4	Concrete/Industrial Saws	1	1.00	16	0.73
Internal Piping to Pond 4	Paving Equipment	1	1.00	130	0.36
Internal Piping to Pond 4	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Pond 4 Demo	Cranes	1	2.00	226	0.29
Pond 4 MLE Construction	Cement and Mortar Mixers	1	4.00	9	0.56
Pond 4 MLE Construction	Paving Equipment	1	2.00	130	0.36
Blower Building Arch. Coat.	Air Compressors	1	4.00	78	0.48
Blower Building Pad	Cement and Mortar Mixers	1	6.00	9	0.56
Pond 2 Demo	Concrete/Industrial Saws	1	4.00	16	0.73
Blower Building Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Blower Building Construction	Cranes	1	2.00	226	0.29
Blower Building Construction	Forklifts	1	6.00	89	0.20
Blower Building Site Prep	Graders	1	8.00	174	0.41
Blower Building Pad	Pavers	1	7.00	125	0.42
Blower Building Pad	Rollers	1	7.00	80	0.38
Pond 3 Demo	Concrete/Industrial Saws	1	4.00	16	0.73
Blower Building Grading	Rubber Tired Dozers	1	1.00	255	0.40
Blower Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Pond 4 Demo	Concrete/Industrial Saws	1	4.00	16	0.73
Blower Building Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Blower Building Pad	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Blower Building Site Prep	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Pond 1 Demo	Concrete/Industrial Saws	1	4.00	81	0.73
Pond 2 MLE Construction	Cranes	1	1.00	226	0.29
Pond 3 MLE Construction	Cranes	1	1.00	226	0.29

Appendix A

Pond 4 MLE Construction	Cranes	1	1.00	226	0.29
Pond 1 MLE Construction	Cranes	1	1.00	226	0.29
Pond 2 MLE Construction	Forklifts	1	6.00	89	0.20
Pond 3 MLE Construction	Forklifts	1	6.00	89	0.20
Pond 4 MLE Construction	Forklifts	1	6.00	89	0.20
Pond 1 MLE Construction	Forklifts	1	6.00	89	0.20
Pond 2 MLE Construction	Cement and Mortar Mixers	1	4.00	9	0.56
Pond 1 MLE Construction	Cement and Mortar Mixers	1	4.00	9	0.56
Pond 2 MLE Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Pond 3 MLE Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Pond 4 MLE Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Pond 1 MLE Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Pond 2 Demo	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Pond 3 Demo	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Pond 4 Demo	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Pond 1 Demo	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Internal Piping to Pond 1	Excavators	1	8.00	162	0.38
Internal Piping to Pond 1	Concrete/Industrial Saws	1	1.00	16	0.73
Internal Piping to Pond 1	Paving Equipment	1	1.00	130	0.36
Internal Piping to Pond 1	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Pond 1 Demo	Cranes	1	2.00	226	0.29
Pond 1 MLE Construction	Paving Equipment	1	2.00	130	0.36
Internal Piping to Pond 2	Excavators	1	8.00	162	0.38
Internal Piping to Pond 2	Concrete/Industrial Saws	1	1.00	16	0.73
Internal Piping to Pond 2	Paving Equipment	1	1.00	130	0.36
Internal Piping to Pond 2	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Pond 2 Demo	Cranes	1	2.00	226	0.29
Pond 2 MLE Construction	Paving Equipment	1	2.00	130	0.36

Trips and VMT

Appendix A

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Pond 2 MLE Construction	5	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Blower Building Site Prep	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Blower Building Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Blower Building Construction	5	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Blower Building Pad	7	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Blower Building Arch. Coat	1	2.00	1.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pond 3 MLE Construction	5	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pond 4 MLE Construction	5	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pond 1 MLE Construction	5	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pond 2 Demo	4	10.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pond 3 Demo	4	10.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pond 4 Demo	4	10.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pond 1 Demo	4	10.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Internal Piping to Pond 3	0	5.00	1.00		10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Internal Piping to Pond 4	0	5.00	1.00		10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Internal Piping to Pond 1	0	5.00	1.00		10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Internal Piping to Pond 2	0	5.00	1.00		10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Blower Building Site Prep - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000

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Off-Road	1.4341	14.4817	7.3936	9.3700e-003		0.8920	0.8920		0.8206	0.8206		995.1971	995.1971	0.2941		1,001.3730
Total	1.4341	14.4817	7.3936	9.3700e-003	0.5303	0.8920	1.4223	0.0573	0.8206	0.8779		995.1971	995.1971	0.2941		1,001.3730

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0233	0.0319	0.2978	4.6000e-004	4.8075	3.4000e-004	4.8079	0.4862	3.1000e-004	0.4865		40.7176	40.7176	2.4600e-003		40.7693
Total	0.0233	0.0319	0.2978	4.6000e-004	4.8075	3.4000e-004	4.8079	0.4862	3.1000e-004	0.4865		40.7176	40.7176	2.4600e-003		40.7693

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.4341	14.4817	7.3936	9.3700e-003		0.8920	0.8920		0.8206	0.8206	0.0000	995.1971	995.1971	0.2941		1,001.3730
Total	1.4341	14.4817	7.3936	9.3700e-003	0.5303	0.8920	1.4223	0.0573	0.8206	0.8779	0.0000	995.1971	995.1971	0.2941		1,001.3730

Mitigated Construction Off-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0233	0.0319	0.2978	4.6000e-004	0.0389	3.4000e-004	0.0393	0.0104	3.1000e-004	0.0107		40.7176	40.7176	2.4600e-003		40.7693
Total	0.0233	0.0319	0.2978	4.6000e-004	0.0389	3.4000e-004	0.0393	0.0104	3.1000e-004	0.0107		40.7176	40.7176	2.4600e-003		40.7693

3.3 Blower Building Grading - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.4929	12.4922	8.8528	0.0121		0.9304	0.9304		0.8904	0.8904		1,207.2469	1,207.2469	0.2515		1,212.5281
Total	1.4929	12.4922	8.8528	0.0121	0.7528	0.9304	1.6832	0.4138	0.8904	1.3041		1,207.2469	1,207.2469	0.2515		1,212.5281

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Appendix A

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0465	0.0637	0.5957	9.2000e-004	9.6151	6.7000e-004	9.6157	0.9724	6.1000e-004	0.9730		81.4352	81.4352	4.9200e-003		81.5385
Total	0.0465	0.0637	0.5957	9.2000e-004	9.6151	6.7000e-004	9.6157	0.9724	6.1000e-004	0.9730		81.4352	81.4352	4.9200e-003		81.5385

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.4929	12.4922	8.8528	0.0121		0.9304	0.9304		0.8904	0.8904	0.0000	1,207.2469	1,207.2469	0.2515		1,212.5281
Total	1.4929	12.4922	8.8528	0.0121	0.7528	0.9304	1.6832	0.4138	0.8904	1.3041	0.0000	1,207.2469	1,207.2469	0.2515		1,212.5281

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0465	0.0637	0.5957	9.2000e-004	0.0779	6.7000e-004	0.0785	0.0207	6.1000e-004	0.0214		81.4352	81.4352	4.9200e-003		81.5385
Total	0.0465	0.0637	0.5957	9.2000e-004	0.0779	6.7000e-004	0.0785	0.0207	6.1000e-004	0.0214		81.4352	81.4352	4.9200e-003		81.5385

3.4 Blower Building Pad - 2014**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0999	11.0160	6.6615	9.5000e-003		0.7103	0.7103		0.6544	0.6544		989.6209	989.6209	0.2853		995.6111
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0999	11.0160	6.6615	9.5000e-003		0.7103	0.7103		0.6544	0.6544		989.6209	989.6209	0.2853		995.6111

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0438	0.2633	0.5075	4.8000e-004	1.3021	5.0400e-003	1.3071	0.1323	4.6300e-003	0.1370		49.0075	49.0075	5.0000e-004		49.0181
Worker	0.0465	0.0637	0.5957	9.2000e-004	9.6151	6.7000e-004	9.6157	0.9724	6.1000e-004	0.9730		81.4352	81.4352	4.9200e-003		81.5385
Total	0.0903	0.3270	1.1032	1.4000e-003	10.9171	5.7100e-003	10.9229	1.1047	5.2400e-003	1.1099		130.4427	130.4427	5.4200e-003		130.5566

Mitigated Construction On-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0999	11.0160	6.6615	9.5000e-003		0.7103	0.7103		0.6544	0.6544	0.0000	989.6209	989.6209	0.2853		995.6111
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0999	11.0160	6.6615	9.5000e-003		0.7103	0.7103		0.6544	0.6544	0.0000	989.6209	989.6209	0.2853		995.6111

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0438	0.2633	0.5075	4.8000e-004	0.0128	5.0400e-003	0.0179	3.6900e-003	4.6300e-003	8.3200e-003		49.0075	49.0075	5.0000e-004		49.0181
Worker	0.0465	0.0637	0.5957	9.2000e-004	0.0779	6.7000e-004	0.0785	0.0207	6.1000e-004	0.0214		81.4352	81.4352	4.9200e-003		81.5385
Total	0.0903	0.3270	1.1032	1.4000e-003	0.0907	5.7100e-003	0.0964	0.0244	5.2400e-003	0.0297		130.4427	130.4427	5.4200e-003		130.5566

3.5 Blower Building Construction - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7465	7.4165	4.1710	5.6700e-003		0.5167	0.5167		0.4754	0.4754		602.1748	602.1748	0.1780		605.9118

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Total	0.7465	7.4165	4.1710	5.6700e-003		0.5167	0.5167		0.4754	0.4754		602.1748	602.1748	0.1780		605.9118
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0438	0.2633	0.5075	4.8000e-004	1.3021	5.0400e-003	1.3071	0.1323	4.6300e-003	0.1370		49.0075	49.0075	5.0000e-004		49.0181
Worker	0.0465	0.0637	0.5957	9.2000e-004	9.6151	6.7000e-004	9.6157	0.9724	6.1000e-004	0.9730		81.4352	81.4352	4.9200e-003		81.5385
Total	0.0903	0.3270	1.1032	1.4000e-003	10.9171	5.7100e-003	10.9229	1.1047	5.2400e-003	1.1099		130.4427	130.4427	5.4200e-003		130.5566

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7465	7.4165	4.1710	5.6700e-003		0.5167	0.5167		0.4754	0.4754	0.0000	602.1748	602.1748	0.1780		605.9118
Total	0.7465	7.4165	4.1710	5.6700e-003		0.5167	0.5167		0.4754	0.4754	0.0000	602.1748	602.1748	0.1780		605.9118

Mitigated Construction Off-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0438	0.2633	0.5075	4.8000e-004	0.0128	5.0400e-003	0.0179	3.6900e-003	4.6300e-003	8.3200e-003		49.0075	49.0075	5.0000e-004		49.0181
Worker	0.0465	0.0637	0.5957	9.2000e-004	0.0779	6.7000e-004	0.0785	0.0207	6.1000e-004	0.0214		81.4352	81.4352	4.9200e-003		81.5385
Total	0.0903	0.3270	1.1032	1.4000e-003	0.0907	5.7100e-003	0.0964	0.0244	5.2400e-003	0.0297		130.4427	130.4427	5.4200e-003		130.5566

3.6 Blower Building Arch. Coat. - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.5620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2975	1.8516	1.2810	1.9800e-003		0.1634	0.1634		0.1634	0.1634		187.6320	187.6320	0.0267		188.1936
Total	5.8595	1.8516	1.2810	1.9800e-003		0.1634	0.1634		0.1634	0.1634		187.6320	187.6320	0.0267		188.1936

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Appendix A

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0219	0.1317	0.2538	2.4000e-004	0.6511	2.5200e-003	0.6536	0.0662	2.3200e-003	0.0685		24.5038	24.5038	2.5000e-004		24.5090
Worker	9.3100e-003	0.0127	0.1191	1.8000e-004	1.9230	1.3000e-004	1.9232	0.1945	1.2000e-004	0.1946		16.2870	16.2870	9.8000e-004		16.3077
Total	0.0312	0.1444	0.3729	4.2000e-004	2.5741	2.6500e-003	2.5767	0.2606	2.4400e-003	0.2631		40.7908	40.7908	1.2300e-003		40.8167

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.5620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2975	1.8516	1.2810	1.9800e-003		0.1634	0.1634		0.1634	0.1634	0.0000	187.6320	187.6320	0.0267		188.1936
Total	5.8595	1.8516	1.2810	1.9800e-003		0.1634	0.1634		0.1634	0.1634	0.0000	187.6320	187.6320	0.0267		188.1936

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0219	0.1317	0.2538	2.4000e-004	6.4000e-003	2.5200e-003	8.9200e-003	1.8500e-003	2.3200e-003	4.1600e-003		24.5038	24.5038	2.5000e-004		24.5090
Worker	9.3100e-003	0.0127	0.1191	1.8000e-004	0.0156	1.3000e-004	0.0157	4.1500e-003	1.2000e-004	4.2700e-003		16.2870	16.2870	9.8000e-004		16.3077
Total	0.0312	0.1444	0.3729	4.2000e-004	0.0220	2.6500e-003	0.0246	6.0000e-003	2.4400e-003	8.4300e-003		40.7908	40.7908	1.2300e-003		40.8167

3.7 Internal Piping to Pond 1 - 2014**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6690	7.4831	5.0237	7.5500e-003		0.4175	0.4175		0.3844	0.3844		795.9397	795.9397	0.2325		800.8213
Total	0.6690	7.4831	5.0237	7.5500e-003		0.4175	0.4175		0.3844	0.3844		795.9397	795.9397	0.2325		800.8213

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0219	0.1317	0.2538	2.4000e-004	0.6511	2.5200e-003	0.6536	0.0662	2.3200e-003	0.0685		24.5038	24.5038	2.5000e-004		24.5090
Worker	0.0233	0.0319	0.2978	4.6000e-004	4.8075	3.4000e-004	4.8079	0.4862	3.1000e-004	0.4865		40.7176	40.7176	2.4600e-003		40.7693
Total	0.0452	0.1635	0.5516	7.0000e-004	5.4586	2.8600e-003	5.4614	0.5524	2.6300e-003	0.5550		65.2213	65.2213	2.7100e-003		65.2783

Mitigated Construction On-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6690	1.8707	5.0237	7.5500e-003		0.4175	0.4175		0.3844	0.3844	0.0000	795.9397	795.9397	0.2325		800.8213
Total	0.6690	1.8707	5.0237	7.5500e-003		0.4175	0.4175		0.3844	0.3844	0.0000	795.9397	795.9397	0.2325		800.8213

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0219	0.1317	0.2538	2.4000e-004	6.4000e-003	2.5200e-003	8.9200e-003	1.8500e-003	2.3200e-003	4.1600e-003		24.5038	24.5038	2.5000e-004		24.5090
Worker	0.0233	0.0319	0.2978	4.6000e-004	0.0389	3.4000e-004	0.0393	0.0104	3.1000e-004	0.0107		40.7176	40.7176	2.4600e-003		40.7693
Total	0.0452	0.1635	0.5516	7.0000e-004	0.0453	2.8600e-003	0.0482	0.0122	2.6300e-003	0.0148		65.2213	65.2213	2.7100e-003		65.2783

3.8 Pond 1 Demo - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0577	0.0000	0.0577	8.7300e-003	0.0000	8.7300e-003			0.0000			0.0000

Appendix A

Off-Road	0.8566	7.5967	4.5159	6.8700e-003		0.5264	0.5264		0.5015	0.5015		693.2521	693.2521	0.1522		696.4489
Total	0.8566	7.5967	4.5159	6.8700e-003	0.0577	0.5264	0.5840	8.7300e-003	0.5015	0.5102		693.2521	693.2521	0.1522		696.4489

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.7200e-003	0.0375	0.0439	8.0000e-005	0.1783	6.5000e-004	0.1789	0.0181	6.0000e-004	0.0187		7.6823	7.6823	7.0000e-005		7.6838
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0465	0.0637	0.5957	9.2000e-004	9.6151	6.7000e-004	9.6157	0.9724	6.1000e-004	0.9730		81.4352	81.4352	4.9200e-003		81.5385
Total	0.0503	0.1012	0.6396	1.0000e-003	9.7933	1.3200e-003	9.7947	0.9904	1.2100e-003	0.9917		89.1175	89.1175	4.9900e-003		89.2223

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0577	0.0000	0.0577	8.7300e-003	0.0000	8.7300e-003			0.0000			0.0000
Off-Road	0.8566	7.5967	4.5159	6.8700e-003		0.5264	0.5264		0.5015	0.5015	0.0000	693.2521	693.2521	0.1522		696.4489
Total	0.8566	7.5967	4.5159	6.8700e-003	0.0577	0.5264	0.5840	8.7300e-003	0.5015	0.5102	0.0000	693.2521	693.2521	0.1522		696.4489

Mitigated Construction Off-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.7200e-003	0.0375	0.0439	8.0000e-005	1.6700e-003	6.5000e-004	2.3200e-003	4.6000e-004	6.0000e-004	1.0600e-003		7.6823	7.6823	7.0000e-005		7.6838
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0465	0.0637	0.5957	9.2000e-004	0.0779	6.7000e-004	0.0785	0.0207	6.1000e-004	0.0214		81.4352	81.4352	4.9200e-003		81.5385
Total	0.0503	0.1012	0.6396	1.0000e-003	0.0795	1.3200e-003	0.0809	0.0212	1.2100e-003	0.0224		89.1175	89.1175	4.9900e-003		89.2223

3.9 Pond 1 MLE Construction - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6730	6.6455	3.9559	5.5300e-003		0.4538	0.4538		0.4181	0.4181		574.6983	574.6983	0.1650		578.1640
Total	0.6730	6.6455	3.9559	5.5300e-003		0.4538	0.4538		0.4181	0.4181		574.6983	574.6983	0.1650		578.1640

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Appendix A

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0438	0.2633	0.5075	4.8000e-004	1.3021	5.0400e-003	1.3071	0.1323	4.6300e-003	0.1370		49.0075	49.0075	5.0000e-004		49.0181
Worker	0.0465	0.0637	0.5957	9.2000e-004	9.6151	6.7000e-004	9.6157	0.9724	6.1000e-004	0.9730		81.4352	81.4352	4.9200e-003		81.5385
Total	0.0903	0.3270	1.1032	1.4000e-003	10.9171	5.7100e-003	10.9229	1.1047	5.2400e-003	1.1099		130.4427	130.4427	5.4200e-003		130.5566

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6730	5.5839	3.9559	5.5300e-003		0.4538	0.4538		0.4181	0.4181	0.0000	574.6983	574.6983	0.1650		578.1640
Total	0.6730	5.5839	3.9559	5.5300e-003		0.4538	0.4538		0.4181	0.4181	0.0000	574.6983	574.6983	0.1650		578.1640

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0438	0.2633	0.5075	4.8000e-004	0.0128	5.0400e-003	0.0179	3.6900e-003	4.6300e-003	8.3200e-003		49.0075	49.0075	5.0000e-004		49.0181
Worker	0.0465	0.0637	0.5957	9.2000e-004	0.0779	6.7000e-004	0.0785	0.0207	6.1000e-004	0.0214		81.4352	81.4352	4.9200e-003		81.5385
Total	0.0903	0.3270	1.1032	1.4000e-003	0.0907	5.7100e-003	0.0964	0.0244	5.2400e-003	0.0297		130.4427	130.4427	5.4200e-003		130.5566

3.10 Internal Piping to Pond 2 - 2015**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6576	7.2152	5.0404	7.5500e-003		0.4039	0.4039		0.3720	0.3720		787.9395	787.9395	0.2324		792.8206
Total	0.6576	7.2152	5.0404	7.5500e-003		0.4039	0.4039		0.3720	0.3720		787.9395	787.9395	0.2324		792.8206

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0197	0.1127	0.2384	2.4000e-004	0.6511	1.9200e-003	0.6530	0.0662	1.7600e-003	0.0679		24.1922	24.1922	2.2000e-004		24.1968
Worker	0.0205	0.0282	0.2614	4.6000e-004	4.8075	3.1000e-004	4.8078	0.4862	2.8000e-004	0.4865		39.3061	39.3061	2.2200e-003		39.3527
Total	0.0402	0.1408	0.4998	7.0000e-004	5.4586	2.2300e-003	5.4608	0.5524	2.0400e-003	0.5544		63.4983	63.4983	2.4400e-003		63.5495

Mitigated Construction On-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6576	1.8207	5.0404	7.5500e-003		0.4039	0.4039		0.3720	0.3720	0.0000	787.9395	787.9395	0.2324		792.8206
Total	0.6576	1.8207	5.0404	7.5500e-003		0.4039	0.4039		0.3720	0.3720	0.0000	787.9395	787.9395	0.2324		792.8206

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0197	0.1127	0.2384	2.4000e-004	6.4000e-003	1.9200e-003	8.3200e-003	1.8500e-003	1.7600e-003	3.6100e-003		24.1922	24.1922	2.2000e-004		24.1968
Worker	0.0205	0.0282	0.2614	4.6000e-004	0.0389	3.1000e-004	0.0392	0.0104	2.8000e-004	0.0107		39.3061	39.3061	2.2200e-003		39.3527
Total	0.0402	0.1408	0.4998	7.0000e-004	0.0453	2.2300e-003	0.0476	0.0122	2.0400e-003	0.0143		63.4983	63.4983	2.4400e-003		63.5495

3.11 Pond 2 Demo - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0577	0.0000	0.0577	8.7300e-003	0.0000	8.7300e-003			0.0000			0.0000

Appendix A

Off-Road	0.5252	5.2084	2.8219	4.4600e-003		0.3181	0.3181		0.2939	0.2939		451.2686	451.2686	0.1235		453.8628
Total	0.5252	5.2084	2.8219	4.4600e-003	0.0577	0.3181	0.3757	8.7300e-003	0.2939	0.3027		451.2686	451.2686	0.1235		453.8628

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4000e-003	0.0318	0.0415	7.0000e-005	0.1783	4.9000e-004	0.1788	0.0181	4.6000e-004	0.0185		7.5835	7.5835	6.0000e-005		7.5848
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0410	0.0564	0.5229	9.2000e-004	9.6151	6.2000e-004	9.6157	0.9724	5.7000e-004	0.9729		78.6123	78.6123	4.4400e-003		78.7055
Total	0.0444	0.0881	0.5644	9.9000e-004	9.7933	1.1100e-003	9.7945	0.9904	1.0300e-003	0.9915		86.1958	86.1958	4.5000e-003		86.2902

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0577	0.0000	0.0577	8.7300e-003	0.0000	8.7300e-003			0.0000			0.0000
Off-Road	0.5252	5.2084	2.8219	4.4600e-003		0.3181	0.3181		0.2939	0.2939	0.0000	451.2686	451.2686	0.1235		453.8628
Total	0.5252	5.2084	2.8219	4.4600e-003	0.0577	0.3181	0.3757	8.7300e-003	0.2939	0.3027	0.0000	451.2686	451.2686	0.1235		453.8628

Mitigated Construction Off-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4000e-003	0.0318	0.0415	7.0000e-005	1.6700e-003	4.9000e-004	2.1600e-003	4.6000e-004	4.6000e-004	9.1000e-004		7.5835	7.5835	6.0000e-005		7.5848
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0410	0.0564	0.5229	9.2000e-004	0.0779	6.2000e-004	0.0785	0.0207	5.7000e-004	0.0213		78.6123	78.6123	4.4400e-003		78.7055
Total	0.0444	0.0881	0.5644	9.9000e-004	0.0795	1.1100e-003	0.0807	0.0212	1.0300e-003	0.0222		86.1958	86.1958	4.5000e-003		86.2902

3.12 Pond 2 MLE Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6571	6.4255	3.9453	5.5300e-003		0.4392	0.4392		0.4047	0.4047		568.9791	568.9791	0.1650		572.4429
Total	0.6571	6.4255	3.9453	5.5300e-003		0.4392	0.4392		0.4047	0.4047		568.9791	568.9791	0.1650		572.4429

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Appendix A

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0393	0.2253	0.4768	4.8000e-004	1.3021	3.8400e-003	1.3059	0.1323	3.5200e-003	0.1359		48.3844	48.3844	4.3000e-004		48.3935
Worker	0.0410	0.0564	0.5229	9.2000e-004	9.6151	6.2000e-004	9.6157	0.9724	5.7000e-004	0.9729		78.6123	78.6123	4.4400e-003		78.7055
Total	0.0803	0.2817	0.9997	1.4000e-003	10.9171	4.4600e-003	10.9216	1.1047	4.0900e-003	1.1088		126.9966	126.9966	4.8700e-003		127.0990

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6571	5.4148	3.9453	5.5300e-003		0.4392	0.4392		0.4047	0.4047	0.0000	568.9791	568.9791	0.1650		572.4429
Total	0.6571	5.4148	3.9453	5.5300e-003		0.4392	0.4392		0.4047	0.4047	0.0000	568.9791	568.9791	0.1650		572.4429

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0393	0.2253	0.4768	4.8000e-004	0.0128	3.8400e-003	0.0166	3.6900e-003	3.5200e-003	7.2200e-003		48.3844	48.3844	4.3000e-004		48.3935
Worker	0.0410	0.0564	0.5229	9.2000e-004	0.0779	6.2000e-004	0.0785	0.0207	5.7000e-004	0.0213		78.6123	78.6123	4.4400e-003		78.7055
Total	0.0803	0.2817	0.9997	1.4000e-003	0.0907	4.4600e-003	0.0951	0.0244	4.0900e-003	0.0285		126.9966	126.9966	4.8700e-003		127.0990

3.13 Internal Piping to Pond 3 - 2015**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6576	7.2152	5.0404	7.5500e-003		0.4039	0.4039		0.3720	0.3720		787.9395	787.9395	0.2324		792.8206
Total	0.6576	7.2152	5.0404	7.5500e-003		0.4039	0.4039		0.3720	0.3720		787.9395	787.9395	0.2324		792.8206

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0197	0.1127	0.2384	2.4000e-004	0.6511	1.9200e-003	0.6530	0.0662	1.7600e-003	0.0679		24.1922	24.1922	2.2000e-004		24.1968
Worker	0.0205	0.0282	0.2614	4.6000e-004	4.8075	3.1000e-004	4.8078	0.4862	2.8000e-004	0.4865		39.3061	39.3061	2.2200e-003		39.3527
Total	0.0402	0.1408	0.4998	7.0000e-004	5.4586	2.2300e-003	5.4608	0.5524	2.0400e-003	0.5544		63.4983	63.4983	2.4400e-003		63.5495

Mitigated Construction On-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6576	1.8207	5.0404	7.5500e-003		0.4039	0.4039		0.3720	0.3720	0.0000	787.9395	787.9395	0.2324		792.8206
Total	0.6576	1.8207	5.0404	7.5500e-003		0.4039	0.4039		0.3720	0.3720	0.0000	787.9395	787.9395	0.2324		792.8206

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0197	0.1127	0.2384	2.4000e-004	6.4000e-003	1.9200e-003	8.3200e-003	1.8500e-003	1.7600e-003	3.6100e-003		24.1922	24.1922	2.2000e-004		24.1968
Worker	0.0205	0.0282	0.2614	4.6000e-004	0.0389	3.1000e-004	0.0392	0.0104	2.8000e-004	0.0107		39.3061	39.3061	2.2200e-003		39.3527
Total	0.0402	0.1408	0.4998	7.0000e-004	0.0453	2.2300e-003	0.0476	0.0122	2.0400e-003	0.0143		63.4983	63.4983	2.4400e-003		63.5495

3.14 Pond 3 Demo - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0577	0.0000	0.0577	8.7300e-003	0.0000	8.7300e-003			0.0000			0.0000

Appendix A

Off-Road	0.5252	5.2084	2.8219	4.4600e-003		0.3181	0.3181		0.2939	0.2939		451.2686	451.2686	0.1235		453.8628
Total	0.5252	5.2084	2.8219	4.4600e-003	0.0577	0.3181	0.3757	8.7300e-003	0.2939	0.3027		451.2686	451.2686	0.1235		453.8628

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4000e-003	0.0318	0.0415	7.0000e-005	0.1783	4.9000e-004	0.1788	0.0181	4.6000e-004	0.0185		7.5835	7.5835	6.0000e-005		7.5848
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0410	0.0564	0.5229	9.2000e-004	9.6151	6.2000e-004	9.6157	0.9724	5.7000e-004	0.9729		78.6123	78.6123	4.4400e-003		78.7055
Total	0.0444	0.0881	0.5644	9.9000e-004	9.7933	1.1100e-003	9.7945	0.9904	1.0300e-003	0.9915		86.1958	86.1958	4.5000e-003		86.2902

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0577	0.0000	0.0577	8.7300e-003	0.0000	8.7300e-003			0.0000			0.0000
Off-Road	0.5252	5.2084	2.8219	4.4600e-003		0.3181	0.3181		0.2939	0.2939	0.0000	451.2686	451.2686	0.1235		453.8628
Total	0.5252	5.2084	2.8219	4.4600e-003	0.0577	0.3181	0.3757	8.7300e-003	0.2939	0.3027	0.0000	451.2686	451.2686	0.1235		453.8628

Mitigated Construction Off-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4000e-003	0.0318	0.0415	7.0000e-005	1.6700e-003	4.9000e-004	2.1600e-003	4.6000e-004	4.6000e-004	9.1000e-004		7.5835	7.5835	6.0000e-005		7.5848
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0410	0.0564	0.5229	9.2000e-004	0.0779	6.2000e-004	0.0785	0.0207	5.7000e-004	0.0213		78.6123	78.6123	4.4400e-003		78.7055
Total	0.0444	0.0881	0.5644	9.9000e-004	0.0795	1.1100e-003	0.0807	0.0212	1.0300e-003	0.0222		86.1958	86.1958	4.5000e-003		86.2902

3.15 Pond 3 MLE Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6571	6.4255	3.9453	5.5300e-003		0.4392	0.4392		0.4047	0.4047		568.9791	568.9791	0.1650		572.4429
Total	0.6571	6.4255	3.9453	5.5300e-003		0.4392	0.4392		0.4047	0.4047		568.9791	568.9791	0.1650		572.4429

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Appendix A

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0393	0.2253	0.4768	4.8000e-004	1.3021	3.8400e-003	1.3059	0.1323	3.5200e-003	0.1359		48.3844	48.3844	4.3000e-004		48.3935
Worker	0.0410	0.0564	0.5229	9.2000e-004	9.6151	6.2000e-004	9.6157	0.9724	5.7000e-004	0.9729		78.6123	78.6123	4.4400e-003		78.7055
Total	0.0803	0.2817	0.9997	1.4000e-003	10.9171	4.4600e-003	10.9216	1.1047	4.0900e-003	1.1088		126.9966	126.9966	4.8700e-003		127.0990

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6571	5.4148	3.9453	5.5300e-003		0.4392	0.4392		0.4047	0.4047	0.0000	568.9791	568.9791	0.1650		572.4429
Total	0.6571	5.4148	3.9453	5.5300e-003		0.4392	0.4392		0.4047	0.4047	0.0000	568.9791	568.9791	0.1650		572.4429

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0393	0.2253	0.4768	4.8000e-004	0.0128	3.8400e-003	0.0166	3.6900e-003	3.5200e-003	7.2200e-003		48.3844	48.3844	4.3000e-004		48.3935
Worker	0.0410	0.0564	0.5229	9.2000e-004	0.0779	6.2000e-004	0.0785	0.0207	5.7000e-004	0.0213		78.6123	78.6123	4.4400e-003		78.7055
Total	0.0803	0.2817	0.9997	1.4000e-003	0.0907	4.4600e-003	0.0951	0.0244	4.0900e-003	0.0285		126.9966	126.9966	4.8700e-003		127.0990

3.16 Internal Piping to Pond 4 - 2015**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6576	7.2152	5.0404	7.5500e-003		0.4039	0.4039		0.3720	0.3720		787.9395	787.9395	0.2324		792.8206
Total	0.6576	7.2152	5.0404	7.5500e-003		0.4039	0.4039		0.3720	0.3720		787.9395	787.9395	0.2324		792.8206

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0197	0.1127	0.2384	2.4000e-004	0.6511	1.9200e-003	0.6530	0.0662	1.7600e-003	0.0679		24.1922	24.1922	2.2000e-004		24.1968
Worker	0.0205	0.0282	0.2614	4.6000e-004	4.8075	3.1000e-004	4.8078	0.4862	2.8000e-004	0.4865		39.3061	39.3061	2.2200e-003		39.3527
Total	0.0402	0.1408	0.4998	7.0000e-004	5.4586	2.2300e-003	5.4608	0.5524	2.0400e-003	0.5544		63.4983	63.4983	2.4400e-003		63.5495

Mitigated Construction On-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6576	1.8207	5.0404	7.5500e-003		0.4039	0.4039		0.3720	0.3720	0.0000	787.9395	787.9395	0.2324		792.8206
Total	0.6576	1.8207	5.0404	7.5500e-003		0.4039	0.4039		0.3720	0.3720	0.0000	787.9395	787.9395	0.2324		792.8206

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0197	0.1127	0.2384	2.4000e-004	6.4000e-003	1.9200e-003	8.3200e-003	1.8500e-003	1.7600e-003	3.6100e-003		24.1922	24.1922	2.2000e-004		24.1968
Worker	0.0205	0.0282	0.2614	4.6000e-004	0.0389	3.1000e-004	0.0392	0.0104	2.8000e-004	0.0107		39.3061	39.3061	2.2200e-003		39.3527
Total	0.0402	0.1408	0.4998	7.0000e-004	0.0453	2.2300e-003	0.0476	0.0122	2.0400e-003	0.0143		63.4983	63.4983	2.4400e-003		63.5495

3.17 Pond 4 Demo - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0577	0.0000	0.0577	8.7300e-003	0.0000	8.7300e-003			0.0000			0.0000

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Off-Road	0.5252	5.2084	2.8219	4.4600e-003		0.3181	0.3181		0.2939	0.2939		451.2686	451.2686	0.1235		453.8628
Total	0.5252	5.2084	2.8219	4.4600e-003	0.0577	0.3181	0.3757	8.7300e-003	0.2939	0.3027		451.2686	451.2686	0.1235		453.8628

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4000e-003	0.0318	0.0415	7.0000e-005	0.1783	4.9000e-004	0.1788	0.0181	4.6000e-004	0.0185		7.5835	7.5835	6.0000e-005		7.5848
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0410	0.0564	0.5229	9.2000e-004	9.6151	6.2000e-004	9.6157	0.9724	5.7000e-004	0.9729		78.6123	78.6123	4.4400e-003		78.7055
Total	0.0444	0.0881	0.5644	9.9000e-004	9.7933	1.1100e-003	9.7945	0.9904	1.0300e-003	0.9915		86.1958	86.1958	4.5000e-003		86.2902

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0577	0.0000	0.0577	8.7300e-003	0.0000	8.7300e-003			0.0000			0.0000
Off-Road	0.5252	5.2084	2.8219	4.4600e-003		0.3181	0.3181		0.2939	0.2939	0.0000	451.2686	451.2686	0.1235		453.8628
Total	0.5252	5.2084	2.8219	4.4600e-003	0.0577	0.3181	0.3757	8.7300e-003	0.2939	0.3027	0.0000	451.2686	451.2686	0.1235		453.8628

Mitigated Construction Off-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4000e-003	0.0318	0.0415	7.0000e-005	1.6700e-003	4.9000e-004	2.1600e-003	4.6000e-004	4.6000e-004	9.1000e-004		7.5835	7.5835	6.0000e-005		7.5848
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0410	0.0564	0.5229	9.2000e-004	0.0779	6.2000e-004	0.0785	0.0207	5.7000e-004	0.0213		78.6123	78.6123	4.4400e-003		78.7055
Total	0.0444	0.0881	0.5644	9.9000e-004	0.0795	1.1100e-003	0.0807	0.0212	1.0300e-003	0.0222		86.1958	86.1958	4.5000e-003		86.2902

3.18 Pond 4 MLE Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6582	6.4395	3.9541	5.5400e-003		0.4399	0.4399		0.4053	0.4053		570.4112	570.4112	0.1654		573.8840
Total	0.6582	6.4395	3.9541	5.5400e-003		0.4399	0.4399		0.4053	0.4053		570.4112	570.4112	0.1654		573.8840

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Appendix A

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0393	0.2253	0.4768	4.8000e-004	1.3021	3.8400e-003	1.3059	0.1323	3.5200e-003	0.1359		48.3844	48.3844	4.3000e-004		48.3935
Worker	0.0410	0.0564	0.5229	9.2000e-004	9.6151	6.2000e-004	9.6157	0.9724	5.7000e-004	0.9729		78.6123	78.6123	4.4400e-003		78.7055
Total	0.0803	0.2817	0.9997	1.4000e-003	10.9171	4.4600e-003	10.9216	1.1047	4.0900e-003	1.1088		126.9966	126.9966	4.8700e-003		127.0990

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6582	5.4148	3.9541	5.5400e-003		0.4399	0.4399		0.4053	0.4053	0.0000	570.4112	570.4112	0.1654		573.8840
Total	0.6582	5.4148	3.9541	5.5400e-003		0.4399	0.4399		0.4053	0.4053	0.0000	570.4112	570.4112	0.1654		573.8840

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0393	0.2253	0.4768	4.8000e-004	0.0128	3.8400e-003	0.0166	3.6900e-003	3.5200e-003	7.2200e-003		48.3844	48.3844	4.3000e-004		48.3935
Worker	0.0410	0.0564	0.5229	9.2000e-004	0.0779	6.2000e-004	0.0785	0.0207	5.7000e-004	0.0213		78.6123	78.6123	4.4400e-003		78.7055
Total	0.0803	0.2817	0.9997	1.4000e-003	0.0907	4.4600e-003	0.0951	0.0244	4.0900e-003	0.0285		126.9966	126.9966	4.8700e-003		127.0990

MLE Construction Yolo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.70	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2015
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Single pond acreage and estimated blow building plus internal piping acreage. Concrete removal square footage per pond.

Construction Phase - Blower Building Construction

Off-road Equipment -

Off-road Equipment - 0.26 acre pad

Off-road Equipment - 0.26 acre pad

Off-road Equipment - 0.26 acre pad

Off-road Equipment - internal piping of blower building pumps to pond

Off-road Equipment - demolition and removal of existing aeration equipment

Off-road Equipment - ditch reconstruction, installation of MLE equipment, and finishing

Off-road Equipment - internal piping of blower building pumps to pond

Appendix A

Off-road Equipment - demolition and removal of existing aeration equipment

Off-road Equipment - ditch reconstruction, installation of MLE equipment, and finishing

Off-road Equipment - internal piping of blower building pumps to pond

Off-road Equipment - demolition and removal of existing aeration equipment

Off-road Equipment - ditch reconstruction, installation of MLE equipment, and finishing

Off-road Equipment - internal piping of blower building pumps to pond

Off-road Equipment - demolition and removal of existing aeration equipment

Off-road Equipment - ditch reconstruction, installation of MLE equipment, and finishing

Grading -

Demolition -

Trips and VMT - vendor trips for material delivery, haul trip for demolition material removal

Area Coating -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstructionPhase	NumDays	100.00	30.00
tblConstructionPhase	NumDays	100.00	30.00
tblConstructionPhase	NumDays	100.00	30.00
tblConstructionPhase	NumDays	100.00	30.00
tblConstructionPhase	NumDays	100.00	30.00
tblConstructionPhase	PhaseEndDate	1/14/2015	1/27/2015
tblConstructionPhase	PhaseEndDate	4/7/2015	4/20/2015
tblConstructionPhase	PhaseEndDate	6/29/2015	7/10/2015
tblConstructionPhase	PhaseStartDate	1/1/2015	1/14/2015
tblConstructionPhase	PhaseStartDate	3/25/2015	4/7/2015
tblConstructionPhase	PhaseStartDate	6/16/2015	6/29/2015
tblConstructionPhase	PhaseStartDate	7/11/2015	7/13/2015
tblConstructionPhase	PhaseStartDate	7/25/2015	7/27/2015
tblLandUse	LandUseSquareFeet	0.00	2,000.00
tblLandUse	LotAcreage	0.00	0.70
tblOffRoadEquipment	HorsePower	81.00	16.00

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tblOffRoadEquipment	HorsePower	81.00	16.00
tblOffRoadEquipment	HorsePower	81.00	16.00
tblOffRoadEquipment	HorsePower	81.00	16.00
tblOffRoadEquipment	HorsePower	81.00	16.00
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tblOffRoadEquipment	HorsePower	81.00	16.00
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment

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tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	PhaseName		Pond 3 MLE Construction
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tblOffRoadEquipment	PhaseName		Internal Piping to Pond 1
tblOffRoadEquipment	PhaseName		Internal Piping to Pond 1
tblOffRoadEquipment	PhaseName		Internal Piping to Pond 1
tblOffRoadEquipment	PhaseName		Internal Piping to Pond 1
tblOffRoadEquipment	PhaseName		Pond 1 Demo

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tblOffRoadEquipment	PhaseName		Pond 1 MLE Construction
tblOffRoadEquipment	PhaseName		Internal Piping to Pond 2
tblOffRoadEquipment	PhaseName		Internal Piping to Pond 2
tblOffRoadEquipment	PhaseName		Internal Piping to Pond 2
tblOffRoadEquipment	PhaseName		Internal Piping to Pond 2
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tblOffRoadEquipment	PhaseName		Internal Piping to Pond 3
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tblOffRoadEquipment	PhaseName		Internal Piping to Pond 4
tblOffRoadEquipment	PhaseName		Pond 4 MLE Construction
tblOffRoadEquipment	PhaseName		Internal Piping to Pond 4
tblOffRoadEquipment	PhaseName		Internal Piping to Pond 4
tblOffRoadEquipment	PhaseName		Internal Piping to Pond 4
tblOffRoadEquipment	PhaseName		Pond 4 Demo
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	4.00	2.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
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tblOffRoadEquipment	UsageHours	4.00	1.00
tblOffRoadEquipment	UsageHours	4.00	1.00
tblOffRoadEquipment	UsageHours	4.00	1.00
tblOffRoadEquipment	UsageHours	4.00	1.00
tblOffRoadEquipment	UsageHours	8.00	6.00

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tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	OperationalYear	2014	2015
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tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	PhaseName		Internal Piping to Pond 3
tblTripsAndVMT	PhaseName		Internal Piping to Pond 4
tblTripsAndVMT	PhaseName		Internal Piping to Pond 1
tblTripsAndVMT	PhaseName		Internal Piping to Pond 2
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
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tblTripsAndVMT	VendorTripNumber	0.00	1.00
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tblTripsAndVMT	WorkerTripNumber	1.00	10.00
tblTripsAndVMT	WorkerTripNumber	18.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	1.00	10.00
tblTripsAndVMT	WorkerTripNumber	1.00	10.00
tblTripsAndVMT	WorkerTripNumber	1.00	10.00
tblTripsAndVMT	WorkerTripNumber	1.00	10.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2014	0.0517	0.3502	0.2397	3.4000e-004	0.3848	0.0231	0.4078	0.0394	0.0214	0.0607	0.0000	31.8113	31.8113	7.6800e-003	0.0000	31.9726
2015	0.0517	0.4912	0.3486	5.2000e-004	0.6151	0.0309	0.6459	0.0624	0.0284	0.0908	0.0000	47.4782	47.4782	0.0119	0.0000	47.7276
Total	0.1034	0.8414	0.5883	8.6000e-004	0.9998	0.0539	1.0538	0.1018	0.0498	0.1516	0.0000	79.2895	79.2895	0.0196	0.0000	79.7002

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2014	0.0517	0.3062	0.2397	3.4000e-004	4.9100e-003	0.0231	0.0280	1.4600e-003	0.0214	0.0228	0.0000	31.8112	31.8112	7.6800e-003	0.0000	31.9726
2015	0.0517	0.3646	0.3486	5.2000e-004	6.6300e-003	0.0309	0.0375	1.6900e-003	0.0284	0.0301	0.0000	47.4781	47.4781	0.0119	0.0000	47.7276
Total	0.1034	0.6708	0.5883	8.6000e-004	0.0115	0.0539	0.0655	3.1500e-003	0.0498	0.0530	0.0000	79.2894	79.2894	0.0196	0.0000	79.7002

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	20.28	0.00	0.00	98.85	0.00	93.79	96.90	0.00	65.06	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Blower Building Site Prep	Site Preparation	8/25/2014	8/25/2014	5	1	
2	Blower Building Grading	Grading	8/26/2014	8/27/2014	5	2	
3	Blower Building Pad	Paving	8/28/2014	9/3/2014	5	5	
4	Blower Building Construction	Building Construction	9/4/2014	10/15/2014	5	30	
5	Blower Building Arch. Coat.	Architectural Coating	10/16/2014	10/22/2014	5	5	
6	Internal Piping to Pond 1	Trenching	10/23/2014	11/5/2014	5	10	
7	Pond 1 Demo	Demolition	11/6/2014	11/19/2014	5	10	
8	Pond 1 MLE Construction	Building Construction	11/20/2014	12/31/2014	5	30	
9	Internal Piping to Pond 2	Trenching	1/14/2015	1/27/2015	5	10	
10	Pond 2 Demo	Demolition	1/28/2015	2/10/2015	5	10	
11	Pond 2 MLE Construction	Building Construction	2/11/2015	3/24/2015	5	30	
12	Internal Piping to Pond 3	Trenching	4/7/2015	4/20/2015	5	10	
13	Pond 3 Demo	Demolition	4/21/2015	5/4/2015	5	10	
14	Pond 3 MLE Construction	Building Construction	5/5/2015	6/15/2015	5	30	
15	Internal Piping to Pond 4	Trenching	6/29/2015	7/10/2015	5	10	
16	Pond 4 Demo	Demolition	7/13/2015	7/24/2015	5	10	
17	Pond 4 MLE Construction	Building Construction	7/27/2015	9/4/2015	5	30	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,000; Non-Residential Outdoor: 1,000 (Architectural Coating –****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Internal Piping to Pond 3	Excavators	1	8.00	162	0.38
Internal Piping to Pond 3	Concrete/Industrial Saws	1	1.00	16	0.73

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Internal Piping to Pond 3	Paving Equipment	1	1.00	130	0.36
Internal Piping to Pond 3	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Pond 3 Demo	Cranes	1	2.00	226	0.29
Pond 3 MLE Construction	Cement and Mortar Mixers	1	4.00	9	0.56
Pond 3 MLE Construction	Paving Equipment	1	2.00	130	0.36
Internal Piping to Pond 4	Excavators	1	8.00	162	0.38
Internal Piping to Pond 4	Concrete/Industrial Saws	1	1.00	16	0.73
Internal Piping to Pond 4	Paving Equipment	1	1.00	130	0.36
Internal Piping to Pond 4	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Pond 4 Demo	Cranes	1	2.00	226	0.29
Pond 4 MLE Construction	Cement and Mortar Mixers	1	4.00	9	0.56
Pond 4 MLE Construction	Paving Equipment	1	2.00	130	0.36
Blower Building Arch. Coat.	Air Compressors	1	4.00	78	0.48
Blower Building Pad	Cement and Mortar Mixers	1	6.00	9	0.56
Pond 2 Demo	Concrete/Industrial Saws	1	4.00	16	0.73
Blower Building Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Blower Building Construction	Cranes	1	2.00	226	0.29
Blower Building Construction	Forklifts	1	6.00	89	0.20
Blower Building Site Prep	Graders	1	8.00	174	0.41
Blower Building Pad	Pavers	1	7.00	125	0.42
Blower Building Pad	Rollers	1	7.00	80	0.38
Pond 3 Demo	Concrete/Industrial Saws	1	4.00	16	0.73
Blower Building Grading	Rubber Tired Dozers	1	1.00	255	0.40
Blower Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Pond 4 Demo	Concrete/Industrial Saws	1	4.00	16	0.73
Blower Building Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Blower Building Pad	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Blower Building Site Prep	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Pond 1 Demo	Concrete/Industrial Saws	1	4.00	81	0.73
Pond 2 MLE Construction	Cranes	1	1.00	226	0.29

Appendix A

Pond 3 MLE Construction	Cranes	1	1.00	226	0.29
Pond 4 MLE Construction	Cranes	1	1.00	226	0.29
Pond 1 MLE Construction	Cranes	1	1.00	226	0.29
Pond 2 MLE Construction	Forklifts	1	6.00	89	0.20
Pond 3 MLE Construction	Forklifts	1	6.00	89	0.20
Pond 4 MLE Construction	Forklifts	1	6.00	89	0.20
Pond 1 MLE Construction	Forklifts	1	6.00	89	0.20
Pond 2 MLE Construction	Cement and Mortar Mixers	1	4.00	9	0.56
Pond 1 MLE Construction	Cement and Mortar Mixers	1	4.00	9	0.56
Pond 2 MLE Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Pond 3 MLE Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Pond 4 MLE Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Pond 1 MLE Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Pond 2 Demo	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Pond 3 Demo	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Pond 4 Demo	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Pond 1 Demo	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Internal Piping to Pond 1	Excavators	1	8.00	162	0.38
Internal Piping to Pond 1	Concrete/Industrial Saws	1	1.00	16	0.73
Internal Piping to Pond 1	Paving Equipment	1	1.00	130	0.36
Internal Piping to Pond 1	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Pond 1 Demo	Cranes	1	2.00	226	0.29
Pond 1 MLE Construction	Paving Equipment	1	2.00	130	0.36
Internal Piping to Pond 2	Excavators	1	8.00	162	0.38
Internal Piping to Pond 2	Concrete/Industrial Saws	1	1.00	16	0.73
Internal Piping to Pond 2	Paving Equipment	1	1.00	130	0.36
Internal Piping to Pond 2	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Pond 2 Demo	Cranes	1	2.00	226	0.29
Pond 2 MLE Construction	Paving Equipment	1	2.00	130	0.36

Trips and VMT

Appendix A

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Pond 2 MLE Construction	5	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Blower Building Site Prep	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Blower Building Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Blower Building Construction	5	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Blower Building Pad	7	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Blower Building Arch. Coat	1	2.00	1.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pond 3 MLE Construction	5	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pond 4 MLE Construction	5	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pond 1 MLE Construction	5	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pond 2 Demo	4	10.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pond 3 Demo	4	10.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pond 4 Demo	4	10.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pond 1 Demo	4	10.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Internal Piping to Pond 3	0	5.00	1.00		10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Internal Piping to Pond 4	0	5.00	1.00		10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Internal Piping to Pond 1	0	5.00	1.00		10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Internal Piping to Pond 2	0	5.00	1.00		10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Blower Building Site Prep - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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Off-Road	7.2000e-004	7.2400e-003	3.7000e-003	0.0000		4.5000e-004	4.5000e-004		4.1000e-004	4.1000e-004	0.0000	0.4514	0.4514	1.3000e-004	0.0000	0.4542
Total	7.2000e-004	7.2400e-003	3.7000e-003	0.0000	2.7000e-004	4.5000e-004	7.2000e-004	3.0000e-005	4.1000e-004	4.4000e-004	0.0000	0.4514	0.4514	1.3000e-004	0.0000	0.4542

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	1.4000e-004	0.0000	2.0500e-003	0.0000	2.0500e-003	2.1000e-004	0.0000	2.1000e-004	0.0000	0.0190	0.0190	0.0000	0.0000	0.0190
Total	1.0000e-005	1.0000e-005	1.4000e-004	0.0000	2.0500e-003	0.0000	2.0500e-003	2.1000e-004	0.0000	2.1000e-004	0.0000	0.0190	0.0190	0.0000	0.0000	0.0190

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2000e-004	7.2400e-003	3.7000e-003	0.0000		4.5000e-004	4.5000e-004		4.1000e-004	4.1000e-004	0.0000	0.4514	0.4514	1.3000e-004	0.0000	0.4542
Total	7.2000e-004	7.2400e-003	3.7000e-003	0.0000	2.7000e-004	4.5000e-004	7.2000e-004	3.0000e-005	4.1000e-004	4.4000e-004	0.0000	0.4514	0.4514	1.3000e-004	0.0000	0.4542

Mitigated Construction Off-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	1.4000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0190	0.0190	0.0000	0.0000	0.0190
Total	1.0000e-005	1.0000e-005	1.4000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0190	0.0190	0.0000	0.0000	0.0190

3.3 Blower Building Grading - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4900e-003	0.0125	8.8500e-003	1.0000e-005		9.3000e-004	9.3000e-004		8.9000e-004	8.9000e-004	0.0000	1.0952	1.0952	2.3000e-004	0.0000	1.1000
Total	1.4900e-003	0.0125	8.8500e-003	1.0000e-005	7.5000e-004	9.3000e-004	1.6800e-003	4.1000e-004	8.9000e-004	1.3000e-003	0.0000	1.0952	1.0952	2.3000e-004	0.0000	1.1000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Appendix A

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	6.0000e-005	5.6000e-004	0.0000	8.2000e-003	0.0000	8.2000e-003	8.3000e-004	0.0000	8.3000e-004	0.0000	0.0760	0.0760	0.0000	0.0000	0.0761
Total	4.0000e-005	6.0000e-005	5.6000e-004	0.0000	8.2000e-003	0.0000	8.2000e-003	8.3000e-004	0.0000	8.3000e-004	0.0000	0.0760	0.0760	0.0000	0.0000	0.0761

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4900e-003	0.0125	8.8500e-003	1.0000e-005		9.3000e-004	9.3000e-004		8.9000e-004	8.9000e-004	0.0000	1.0952	1.0952	2.3000e-004	0.0000	1.1000
Total	1.4900e-003	0.0125	8.8500e-003	1.0000e-005	7.5000e-004	9.3000e-004	1.6800e-003	4.1000e-004	8.9000e-004	1.3000e-003	0.0000	1.0952	1.0952	2.3000e-004	0.0000	1.1000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	6.0000e-005	5.6000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0760	0.0760	0.0000	0.0000	0.0761
Total	4.0000e-005	6.0000e-005	5.6000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0760	0.0760	0.0000	0.0000	0.0761

3.4 Blower Building Pad - 2014**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.7500e-003	0.0275	0.0167	2.0000e-005		1.7800e-003	1.7800e-003		1.6400e-003	1.6400e-003	0.0000	2.2444	2.2444	6.5000e-004	0.0000	2.2580
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.7500e-003	0.0275	0.0167	2.0000e-005		1.7800e-003	1.7800e-003		1.6400e-003	1.6400e-003	0.0000	2.2444	2.2444	6.5000e-004	0.0000	2.2580

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	6.5000e-004	9.6000e-004	0.0000	2.7800e-003	1.0000e-005	2.7900e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.1116	0.1116	0.0000	0.0000	0.1117
Worker	1.1000e-004	1.4000e-004	1.4100e-003	0.0000	0.0205	0.0000	0.0205	2.0800e-003	0.0000	2.0800e-003	0.0000	0.1899	0.1899	1.0000e-005	0.0000	0.1902
Total	2.0000e-004	7.9000e-004	2.3700e-003	0.0000	0.0233	1.0000e-005	0.0233	2.3600e-003	1.0000e-005	2.3700e-003	0.0000	0.3016	0.3016	1.0000e-005	0.0000	0.3018

Mitigated Construction On-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.7500e-003	0.0275	0.0167	2.0000e-005		1.7800e-003	1.7800e-003		1.6400e-003	1.6400e-003	0.0000	2.2444	2.2444	6.5000e-004	0.0000	2.2580
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.7500e-003	0.0275	0.0167	2.0000e-005		1.7800e-003	1.7800e-003		1.6400e-003	1.6400e-003	0.0000	2.2444	2.2444	6.5000e-004	0.0000	2.2580

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	6.5000e-004	9.6000e-004	0.0000	3.0000e-005	1.0000e-005	4.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.1116	0.1116	0.0000	0.0000	0.1117
Worker	1.1000e-004	1.4000e-004	1.4100e-003	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1899	0.1899	1.0000e-005	0.0000	0.1902
Total	2.0000e-004	7.9000e-004	2.3700e-003	0.0000	2.2000e-004	1.0000e-005	2.3000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.3016	0.3016	1.0000e-005	0.0000	0.3018

3.5 Blower Building Construction - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0112	0.1113	0.0626	9.0000e-005		7.7500e-003	7.7500e-003		7.1300e-003	7.1300e-003	0.0000	8.1943	8.1943	2.4200e-003	0.0000	8.2451

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Total	0.0112	0.1113	0.0626	9.0000e-005		7.7500e-003	7.7500e-003		7.1300e-003	7.1300e-003	0.0000	8.1943	8.1943	2.4200e-003	0.0000	8.2451
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.4000e-004	3.8800e-003	5.7800e-003	1.0000e-005	0.0167	8.0000e-005	0.0167	1.7000e-003	7.0000e-005	1.7700e-003	0.0000	0.6698	0.6698	1.0000e-005	0.0000	0.6699
Worker	6.6000e-004	8.5000e-004	8.4600e-003	1.0000e-005	0.1230	1.0000e-005	0.1230	0.0125	1.0000e-005	0.0125	0.0000	1.1395	1.1395	7.0000e-005	0.0000	1.1409
Total	1.2000e-003	4.7300e-003	0.0142	2.0000e-005	0.1397	9.0000e-005	0.1398	0.0142	8.0000e-005	0.0142	0.0000	1.8093	1.8093	8.0000e-005	0.0000	1.8109

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0112	0.1113	0.0626	9.0000e-005		7.7500e-003	7.7500e-003		7.1300e-003	7.1300e-003	0.0000	8.1943	8.1943	2.4200e-003	0.0000	8.2451
Total	0.0112	0.1113	0.0626	9.0000e-005		7.7500e-003	7.7500e-003		7.1300e-003	7.1300e-003	0.0000	8.1943	8.1943	2.4200e-003	0.0000	8.2451

Mitigated Construction Off-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.4000e-004	3.8800e-003	5.7800e-003	1.0000e-005	1.9000e-004	8.0000e-005	2.6000e-004	5.0000e-005	7.0000e-005	1.2000e-004	0.0000	0.6698	0.6698	1.0000e-005	0.0000	0.6699
Worker	6.6000e-004	8.5000e-004	8.4600e-003	1.0000e-005	1.1300e-003	1.0000e-005	1.1400e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	1.1395	1.1395	7.0000e-005	0.0000	1.1409
Total	1.2000e-003	4.7300e-003	0.0142	2.0000e-005	1.3200e-003	9.0000e-005	1.4000e-003	3.5000e-004	8.0000e-005	4.3000e-004	0.0000	1.8093	1.8093	8.0000e-005	0.0000	1.8109

3.6 Blower Building Arch. Coat. - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4000e-004	4.6300e-003	3.2000e-003	0.0000		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.4255	0.4255	6.0000e-005	0.0000	0.4268
Total	0.0147	4.6300e-003	3.2000e-003	0.0000		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.4255	0.4255	6.0000e-005	0.0000	0.4268

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

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Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	3.2000e-004	4.8000e-004	0.0000	1.3900e-003	1.0000e-005	1.4000e-003	1.4000e-004	1.0000e-005	1.5000e-004	0.0000	0.0558	0.0558	0.0000	0.0000	0.0558
Worker	2.0000e-005	3.0000e-005	2.8000e-004	0.0000	4.1000e-003	0.0000	4.1000e-003	4.2000e-004	0.0000	4.2000e-004	0.0000	0.0380	0.0380	0.0000	0.0000	0.0380
Total	7.0000e-005	3.5000e-004	7.6000e-004	0.0000	5.4900e-003	1.0000e-005	5.5000e-003	5.6000e-004	1.0000e-005	5.7000e-004	0.0000	0.0938	0.0938	0.0000	0.0000	0.0939

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4000e-004	4.6300e-003	3.2000e-003	0.0000		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.4255	0.4255	6.0000e-005	0.0000	0.4268
Total	0.0147	4.6300e-003	3.2000e-003	0.0000		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.4255	0.4255	6.0000e-005	0.0000	0.4268

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	3.2000e-004	4.8000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0558	0.0558	0.0000	0.0000	0.0558
Worker	2.0000e-005	3.0000e-005	2.8000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0380	0.0380	0.0000	0.0000	0.0380
Total	7.0000e-005	3.5000e-004	7.6000e-004	0.0000	6.0000e-005	1.0000e-005	6.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.0938	0.0938	0.0000	0.0000	0.0939

3.7 Internal Piping to Pond 1 - 2014**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.3400e-003	0.0374	0.0251	4.0000e-005		2.0900e-003	2.0900e-003		1.9200e-003	1.9200e-003	0.0000	3.6103	3.6103	1.0500e-003	0.0000	3.6325
Total	3.3400e-003	0.0374	0.0251	4.0000e-005		2.0900e-003	2.0900e-003		1.9200e-003	1.9200e-003	0.0000	3.6103	3.6103	1.0500e-003	0.0000	3.6325

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	6.5000e-004	9.6000e-004	0.0000	2.7800e-003	1.0000e-005	2.7900e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.1116	0.1116	0.0000	0.0000	0.1117
Worker	1.1000e-004	1.4000e-004	1.4100e-003	0.0000	0.0205	0.0000	0.0205	2.0800e-003	0.0000	2.0800e-003	0.0000	0.1899	0.1899	1.0000e-005	0.0000	0.1902
Total	2.0000e-004	7.9000e-004	2.3700e-003	0.0000	0.0233	1.0000e-005	0.0233	2.3600e-003	1.0000e-005	2.3700e-003	0.0000	0.3016	0.3016	1.0000e-005	0.0000	0.3018

Mitigated Construction On-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.3400e-003	9.3500e-003	0.0251	4.0000e-005		2.0900e-003	2.0900e-003		1.9200e-003	1.9200e-003	0.0000	3.6103	3.6103	1.0500e-003	0.0000	3.6325
Total	3.3400e-003	9.3500e-003	0.0251	4.0000e-005		2.0900e-003	2.0900e-003		1.9200e-003	1.9200e-003	0.0000	3.6103	3.6103	1.0500e-003	0.0000	3.6325

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	6.5000e-004	9.6000e-004	0.0000	3.0000e-005	1.0000e-005	4.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.1116	0.1116	0.0000	0.0000	0.1117
Worker	1.1000e-004	1.4000e-004	1.4100e-003	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1899	0.1899	1.0000e-005	0.0000	0.1902
Total	2.0000e-004	7.9000e-004	2.3700e-003	0.0000	2.2000e-004	1.0000e-005	2.3000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.3016	0.3016	1.0000e-005	0.0000	0.3018

3.8 Pond 1 Demo - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.9000e-004	0.0000	2.9000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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Off-Road	4.2800e-003	0.0380	0.0226	3.0000e-005		2.6300e-003	2.6300e-003		2.5100e-003	2.5100e-003	0.0000	3.1445	3.1445	6.9000e-004	0.0000	3.1590
Total	4.2800e-003	0.0380	0.0226	3.0000e-005	2.9000e-004	2.6300e-003	2.9200e-003	4.0000e-005	2.5100e-003	2.5500e-003	0.0000	3.1445	3.1445	6.9000e-004	0.0000	3.1590

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	1.8000e-004	1.7000e-004	0.0000	7.6000e-004	0.0000	7.6000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0349	0.0349	0.0000	0.0000	0.0349
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	2.8000e-004	2.8200e-003	0.0000	0.0410	0.0000	0.0410	4.1500e-003	0.0000	4.1600e-003	0.0000	0.3798	0.3798	2.0000e-005	0.0000	0.3803
Total	2.4000e-004	4.6000e-004	2.9900e-003	0.0000	0.0418	0.0000	0.0418	4.2300e-003	0.0000	4.2400e-003	0.0000	0.4147	0.4147	2.0000e-005	0.0000	0.4152

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.9000e-004	0.0000	2.9000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2800e-003	0.0380	0.0226	3.0000e-005		2.6300e-003	2.6300e-003		2.5100e-003	2.5100e-003	0.0000	3.1445	3.1445	6.9000e-004	0.0000	3.1590
Total	4.2800e-003	0.0380	0.0226	3.0000e-005	2.9000e-004	2.6300e-003	2.9200e-003	4.0000e-005	2.5100e-003	2.5500e-003	0.0000	3.1445	3.1445	6.9000e-004	0.0000	3.1590

Mitigated Construction Off-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	1.8000e-004	1.7000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0349	0.0349	0.0000	0.0000	0.0349
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	2.8000e-004	2.8200e-003	0.0000	3.8000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3798	0.3798	2.0000e-005	0.0000	0.3803
Total	2.4000e-004	4.6000e-004	2.9900e-003	0.0000	3.9000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.4147	0.4147	2.0000e-005	0.0000	0.4152

3.9 Pond 1 MLE Construction - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0101	0.0997	0.0593	8.0000e-005		6.8100e-003	6.8100e-003		6.2700e-003	6.2700e-003	0.0000	7.8204	7.8204	2.2500e-003	0.0000	7.8675
Total	0.0101	0.0997	0.0593	8.0000e-005		6.8100e-003	6.8100e-003		6.2700e-003	6.2700e-003	0.0000	7.8204	7.8204	2.2500e-003	0.0000	7.8675

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Appendix A

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.4000e-004	3.8800e-003	5.7800e-003	1.0000e-005	0.0167	8.0000e-005	0.0167	1.7000e-003	7.0000e-005	1.7700e-003	0.0000	0.6698	0.6698	1.0000e-005	0.0000	0.6699
Worker	6.6000e-004	8.5000e-004	8.4600e-003	1.0000e-005	0.1230	1.0000e-005	0.1230	0.0125	1.0000e-005	0.0125	0.0000	1.1395	1.1395	7.0000e-005	0.0000	1.1409
Total	1.2000e-003	4.7300e-003	0.0142	2.0000e-005	0.1397	9.0000e-005	0.1398	0.0142	8.0000e-005	0.0142	0.0000	1.8093	1.8093	8.0000e-005	0.0000	1.8109

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0101	0.0838	0.0593	8.0000e-005		6.8100e-003	6.8100e-003		6.2700e-003	6.2700e-003	0.0000	7.8204	7.8204	2.2500e-003	0.0000	7.8675
Total	0.0101	0.0838	0.0593	8.0000e-005		6.8100e-003	6.8100e-003		6.2700e-003	6.2700e-003	0.0000	7.8204	7.8204	2.2500e-003	0.0000	7.8675

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.4000e-004	3.8800e-003	5.7800e-003	1.0000e-005	1.9000e-004	8.0000e-005	2.6000e-004	5.0000e-005	7.0000e-005	1.2000e-004	0.0000	0.6698	0.6698	1.0000e-005	0.0000	0.6699
Worker	6.6000e-004	8.5000e-004	8.4600e-003	1.0000e-005	1.1300e-003	1.0000e-005	1.1400e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	1.1395	1.1395	7.0000e-005	0.0000	1.1409
Total	1.2000e-003	4.7300e-003	0.0142	2.0000e-005	1.3200e-003	9.0000e-005	1.4000e-003	3.5000e-004	8.0000e-005	4.3000e-004	0.0000	1.8093	1.8093	8.0000e-005	0.0000	1.8109

3.10 Internal Piping to Pond 2 - 2015**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2900e-003	0.0361	0.0252	4.0000e-005		2.0200e-003	2.0200e-003		1.8600e-003	1.8600e-003	0.0000	3.5740	3.5740	1.0500e-003	0.0000	3.5962
Total	3.2900e-003	0.0361	0.0252	4.0000e-005		2.0200e-003	2.0200e-003		1.8600e-003	1.8600e-003	0.0000	3.5740	3.5740	1.0500e-003	0.0000	3.5962

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	5.5000e-004	9.0000e-004	0.0000	2.7800e-003	1.0000e-005	2.7900e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.1102	0.1102	0.0000	0.0000	0.1102
Worker	1.0000e-004	1.3000e-004	1.2400e-003	0.0000	0.0205	0.0000	0.0205	2.0800e-003	0.0000	2.0800e-003	0.0000	0.1834	0.1834	1.0000e-005	0.0000	0.1836
Total	1.8000e-004	6.8000e-004	2.1400e-003	0.0000	0.0233	1.0000e-005	0.0233	2.3600e-003	1.0000e-005	2.3700e-003	0.0000	0.2936	0.2936	1.0000e-005	0.0000	0.2938

Mitigated Construction On-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2900e-003	9.1000e-003	0.0252	4.0000e-005		2.0200e-003	2.0200e-003		1.8600e-003	1.8600e-003	0.0000	3.5740	3.5740	1.0500e-003	0.0000	3.5962
Total	3.2900e-003	9.1000e-003	0.0252	4.0000e-005		2.0200e-003	2.0200e-003		1.8600e-003	1.8600e-003	0.0000	3.5740	3.5740	1.0500e-003	0.0000	3.5962

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	5.5000e-004	9.0000e-004	0.0000	3.0000e-005	1.0000e-005	4.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.1102	0.1102	0.0000	0.0000	0.1102
Worker	1.0000e-004	1.3000e-004	1.2400e-003	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1834	0.1834	1.0000e-005	0.0000	0.1836
Total	1.8000e-004	6.8000e-004	2.1400e-003	0.0000	2.2000e-004	1.0000e-005	2.3000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.2936	0.2936	1.0000e-005	0.0000	0.2938

3.11 Pond 2 Demo - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.9000e-004	0.0000	2.9000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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Off-Road	2.6300e-003	0.0260	0.0141	2.0000e-005		1.5900e-003	1.5900e-003		1.4700e-003	1.4700e-003	0.0000	2.0469	2.0469	5.6000e-004	0.0000	2.0587
Total	2.6300e-003	0.0260	0.0141	2.0000e-005	2.9000e-004	1.5900e-003	1.8800e-003	4.0000e-005	1.4700e-003	1.5100e-003	0.0000	2.0469	2.0469	5.6000e-004	0.0000	2.0587

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	1.6000e-004	1.6000e-004	0.0000	7.6000e-004	0.0000	7.6000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0345	0.0345	0.0000	0.0000	0.0345
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	2.5000e-004	2.4900e-003	0.0000	0.0410	0.0000	0.0410	4.1500e-003	0.0000	4.1600e-003	0.0000	0.3667	0.3667	2.0000e-005	0.0000	0.3671
Total	2.0000e-004	4.1000e-004	2.6500e-003	0.0000	0.0418	0.0000	0.0418	4.2300e-003	0.0000	4.2400e-003	0.0000	0.4011	0.4011	2.0000e-005	0.0000	0.4016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.9000e-004	0.0000	2.9000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6300e-003	0.0260	0.0141	2.0000e-005		1.5900e-003	1.5900e-003		1.4700e-003	1.4700e-003	0.0000	2.0469	2.0469	5.6000e-004	0.0000	2.0587
Total	2.6300e-003	0.0260	0.0141	2.0000e-005	2.9000e-004	1.5900e-003	1.8800e-003	4.0000e-005	1.4700e-003	1.5100e-003	0.0000	2.0469	2.0469	5.6000e-004	0.0000	2.0587

Mitigated Construction Off-Site

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	1.6000e-004	1.6000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0345	0.0345	0.0000	0.0000	0.0345
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	2.5000e-004	2.4900e-003	0.0000	3.8000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3667	0.3667	2.0000e-005	0.0000	0.3671
Total	2.0000e-004	4.1000e-004	2.6500e-003	0.0000	3.9000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.4011	0.4011	2.0000e-005	0.0000	0.4016

3.12 Pond 2 MLE Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.8600e-003	0.0964	0.0592	8.0000e-005		6.5900e-003	6.5900e-003		6.0700e-003	6.0700e-003	0.0000	7.7425	7.7425	2.2400e-003	0.0000	7.7897
Total	9.8600e-003	0.0964	0.0592	8.0000e-005		6.5900e-003	6.5900e-003		6.0700e-003	6.0700e-003	0.0000	7.7425	7.7425	2.2400e-003	0.0000	7.7897

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

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Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.9000e-004	3.3200e-003	5.4000e-003	1.0000e-005	0.0167	6.0000e-005	0.0167	1.7000e-003	5.0000e-005	1.7500e-003	0.0000	0.6613	0.6613	1.0000e-005	0.0000	0.6614
Worker	5.8000e-004	7.5000e-004	7.4600e-003	1.0000e-005	0.1230	1.0000e-005	0.1230	0.0125	1.0000e-005	0.0125	0.0000	1.1001	1.1001	6.0000e-005	0.0000	1.1014
Total	1.0700e-003	4.0700e-003	0.0129	2.0000e-005	0.1397	7.0000e-005	0.1398	0.0142	6.0000e-005	0.0142	0.0000	1.7614	1.7614	7.0000e-005	0.0000	1.7628

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.8600e-003	0.0812	0.0592	8.0000e-005		6.5900e-003	6.5900e-003		6.0700e-003	6.0700e-003	0.0000	7.7425	7.7425	2.2400e-003	0.0000	7.7897
Total	9.8600e-003	0.0812	0.0592	8.0000e-005		6.5900e-003	6.5900e-003		6.0700e-003	6.0700e-003	0.0000	7.7425	7.7425	2.2400e-003	0.0000	7.7897

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.9000e-004	3.3200e-003	5.4000e-003	1.0000e-005	1.9000e-004	6.0000e-005	2.4000e-004	5.0000e-005	5.0000e-005	1.1000e-004	0.0000	0.6613	0.6613	1.0000e-005	0.0000	0.6614
Worker	5.8000e-004	7.5000e-004	7.4600e-003	1.0000e-005	1.1300e-003	1.0000e-005	1.1400e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	1.1001	1.1001	6.0000e-005	0.0000	1.1014
Total	1.0700e-003	4.0700e-003	0.0129	2.0000e-005	1.3200e-003	7.0000e-005	1.3800e-003	3.5000e-004	6.0000e-005	4.2000e-004	0.0000	1.7614	1.7614	7.0000e-005	0.0000	1.7628

3.13 Internal Piping to Pond 3 - 2015**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2900e-003	0.0361	0.0252	4.0000e-005		2.0200e-003	2.0200e-003		1.8600e-003	1.8600e-003	0.0000	3.5740	3.5740	1.0500e-003	0.0000	3.5962
Total	3.2900e-003	0.0361	0.0252	4.0000e-005		2.0200e-003	2.0200e-003		1.8600e-003	1.8600e-003	0.0000	3.5740	3.5740	1.0500e-003	0.0000	3.5962

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	5.5000e-004	9.0000e-004	0.0000	2.7800e-003	1.0000e-005	2.7900e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.1102	0.1102	0.0000	0.0000	0.1102
Worker	1.0000e-004	1.3000e-004	1.2400e-003	0.0000	0.0205	0.0000	0.0205	2.0800e-003	0.0000	2.0800e-003	0.0000	0.1834	0.1834	1.0000e-005	0.0000	0.1836
Total	1.8000e-004	6.8000e-004	2.1400e-003	0.0000	0.0233	1.0000e-005	0.0233	2.3600e-003	1.0000e-005	2.3700e-003	0.0000	0.2936	0.2936	1.0000e-005	0.0000	0.2938

Mitigated Construction On-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2900e-003	9.1000e-003	0.0252	4.0000e-005		2.0200e-003	2.0200e-003		1.8600e-003	1.8600e-003	0.0000	3.5740	3.5740	1.0500e-003	0.0000	3.5962
Total	3.2900e-003	9.1000e-003	0.0252	4.0000e-005		2.0200e-003	2.0200e-003		1.8600e-003	1.8600e-003	0.0000	3.5740	3.5740	1.0500e-003	0.0000	3.5962

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	5.5000e-004	9.0000e-004	0.0000	3.0000e-005	1.0000e-005	4.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.1102	0.1102	0.0000	0.0000	0.1102
Worker	1.0000e-004	1.3000e-004	1.2400e-003	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1834	0.1834	1.0000e-005	0.0000	0.1836
Total	1.8000e-004	6.8000e-004	2.1400e-003	0.0000	2.2000e-004	1.0000e-005	2.3000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.2936	0.2936	1.0000e-005	0.0000	0.2938

3.14 Pond 3 Demo - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.9000e-004	0.0000	2.9000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Appendix A

Off-Road	2.6300e-003	0.0260	0.0141	2.0000e-005		1.5900e-003	1.5900e-003		1.4700e-003	1.4700e-003	0.0000	2.0469	2.0469	5.6000e-004	0.0000	2.0587
Total	2.6300e-003	0.0260	0.0141	2.0000e-005	2.9000e-004	1.5900e-003	1.8800e-003	4.0000e-005	1.4700e-003	1.5100e-003	0.0000	2.0469	2.0469	5.6000e-004	0.0000	2.0587

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	1.6000e-004	1.6000e-004	0.0000	7.6000e-004	0.0000	7.6000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0345	0.0345	0.0000	0.0000	0.0345
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	2.5000e-004	2.4900e-003	0.0000	0.0410	0.0000	0.0410	4.1500e-003	0.0000	4.1600e-003	0.0000	0.3667	0.3667	2.0000e-005	0.0000	0.3671
Total	2.0000e-004	4.1000e-004	2.6500e-003	0.0000	0.0418	0.0000	0.0418	4.2300e-003	0.0000	4.2400e-003	0.0000	0.4011	0.4011	2.0000e-005	0.0000	0.4016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.9000e-004	0.0000	2.9000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6300e-003	0.0260	0.0141	2.0000e-005		1.5900e-003	1.5900e-003		1.4700e-003	1.4700e-003	0.0000	2.0469	2.0469	5.6000e-004	0.0000	2.0587
Total	2.6300e-003	0.0260	0.0141	2.0000e-005	2.9000e-004	1.5900e-003	1.8800e-003	4.0000e-005	1.4700e-003	1.5100e-003	0.0000	2.0469	2.0469	5.6000e-004	0.0000	2.0587

Mitigated Construction Off-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	1.6000e-004	1.6000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0345	0.0345	0.0000	0.0000	0.0345
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	2.5000e-004	2.4900e-003	0.0000	3.8000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3667	0.3667	2.0000e-005	0.0000	0.3671
Total	2.0000e-004	4.1000e-004	2.6500e-003	0.0000	3.9000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.4011	0.4011	2.0000e-005	0.0000	0.4016

3.15 Pond 3 MLE Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.8600e-003	0.0964	0.0592	8.0000e-005		6.5900e-003	6.5900e-003		6.0700e-003	6.0700e-003	0.0000	7.7425	7.7425	2.2400e-003	0.0000	7.7897
Total	9.8600e-003	0.0964	0.0592	8.0000e-005		6.5900e-003	6.5900e-003		6.0700e-003	6.0700e-003	0.0000	7.7425	7.7425	2.2400e-003	0.0000	7.7897

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Appendix A

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.9000e-004	3.3200e-003	5.4000e-003	1.0000e-005	0.0167	6.0000e-005	0.0167	1.7000e-003	5.0000e-005	1.7500e-003	0.0000	0.6613	0.6613	1.0000e-005	0.0000	0.6614
Worker	5.8000e-004	7.5000e-004	7.4600e-003	1.0000e-005	0.1230	1.0000e-005	0.1230	0.0125	1.0000e-005	0.0125	0.0000	1.1001	1.1001	6.0000e-005	0.0000	1.1014
Total	1.0700e-003	4.0700e-003	0.0129	2.0000e-005	0.1397	7.0000e-005	0.1398	0.0142	6.0000e-005	0.0142	0.0000	1.7614	1.7614	7.0000e-005	0.0000	1.7628

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.8600e-003	0.0812	0.0592	8.0000e-005		6.5900e-003	6.5900e-003		6.0700e-003	6.0700e-003	0.0000	7.7425	7.7425	2.2400e-003	0.0000	7.7897
Total	9.8600e-003	0.0812	0.0592	8.0000e-005		6.5900e-003	6.5900e-003		6.0700e-003	6.0700e-003	0.0000	7.7425	7.7425	2.2400e-003	0.0000	7.7897

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.9000e-004	3.3200e-003	5.4000e-003	1.0000e-005	1.9000e-004	6.0000e-005	2.4000e-004	5.0000e-005	5.0000e-005	1.1000e-004	0.0000	0.6613	0.6613	1.0000e-005	0.0000	0.6614
Worker	5.8000e-004	7.5000e-004	7.4600e-003	1.0000e-005	1.1300e-003	1.0000e-005	1.1400e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	1.1001	1.1001	6.0000e-005	0.0000	1.1014
Total	1.0700e-003	4.0700e-003	0.0129	2.0000e-005	1.3200e-003	7.0000e-005	1.3800e-003	3.5000e-004	6.0000e-005	4.2000e-004	0.0000	1.7614	1.7614	7.0000e-005	0.0000	1.7628

3.16 Internal Piping to Pond 4 - 2015**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2900e-003	0.0361	0.0252	4.0000e-005		2.0200e-003	2.0200e-003		1.8600e-003	1.8600e-003	0.0000	3.5740	3.5740	1.0500e-003	0.0000	3.5962
Total	3.2900e-003	0.0361	0.0252	4.0000e-005		2.0200e-003	2.0200e-003		1.8600e-003	1.8600e-003	0.0000	3.5740	3.5740	1.0500e-003	0.0000	3.5962

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	5.5000e-004	9.0000e-004	0.0000	2.7800e-003	1.0000e-005	2.7900e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.1102	0.1102	0.0000	0.0000	0.1102
Worker	1.0000e-004	1.3000e-004	1.2400e-003	0.0000	0.0205	0.0000	0.0205	2.0800e-003	0.0000	2.0800e-003	0.0000	0.1834	0.1834	1.0000e-005	0.0000	0.1836
Total	1.8000e-004	6.8000e-004	2.1400e-003	0.0000	0.0233	1.0000e-005	0.0233	2.3600e-003	1.0000e-005	2.3700e-003	0.0000	0.2936	0.2936	1.0000e-005	0.0000	0.2938

Mitigated Construction On-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2900e-003	9.1000e-003	0.0252	4.0000e-005		2.0200e-003	2.0200e-003		1.8600e-003	1.8600e-003	0.0000	3.5740	3.5740	1.0500e-003	0.0000	3.5962
Total	3.2900e-003	9.1000e-003	0.0252	4.0000e-005		2.0200e-003	2.0200e-003		1.8600e-003	1.8600e-003	0.0000	3.5740	3.5740	1.0500e-003	0.0000	3.5962

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	5.5000e-004	9.0000e-004	0.0000	3.0000e-005	1.0000e-005	4.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.1102	0.1102	0.0000	0.0000	0.1102
Worker	1.0000e-004	1.3000e-004	1.2400e-003	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1834	0.1834	1.0000e-005	0.0000	0.1836
Total	1.8000e-004	6.8000e-004	2.1400e-003	0.0000	2.2000e-004	1.0000e-005	2.3000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.2936	0.2936	1.0000e-005	0.0000	0.2938

3.17 Pond 4 Demo - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.9000e-004	0.0000	2.9000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Appendix A

Off-Road	2.6300e-003	0.0260	0.0141	2.0000e-005		1.5900e-003	1.5900e-003		1.4700e-003	1.4700e-003	0.0000	2.0469	2.0469	5.6000e-004	0.0000	2.0587
Total	2.6300e-003	0.0260	0.0141	2.0000e-005	2.9000e-004	1.5900e-003	1.8800e-003	4.0000e-005	1.4700e-003	1.5100e-003	0.0000	2.0469	2.0469	5.6000e-004	0.0000	2.0587

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	1.6000e-004	1.6000e-004	0.0000	7.6000e-004	0.0000	7.6000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0345	0.0345	0.0000	0.0000	0.0345
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	2.5000e-004	2.4900e-003	0.0000	0.0410	0.0000	0.0410	4.1500e-003	0.0000	4.1600e-003	0.0000	0.3667	0.3667	2.0000e-005	0.0000	0.3671
Total	2.0000e-004	4.1000e-004	2.6500e-003	0.0000	0.0418	0.0000	0.0418	4.2300e-003	0.0000	4.2400e-003	0.0000	0.4011	0.4011	2.0000e-005	0.0000	0.4016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.9000e-004	0.0000	2.9000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6300e-003	0.0260	0.0141	2.0000e-005		1.5900e-003	1.5900e-003		1.4700e-003	1.4700e-003	0.0000	2.0469	2.0469	5.6000e-004	0.0000	2.0587
Total	2.6300e-003	0.0260	0.0141	2.0000e-005	2.9000e-004	1.5900e-003	1.8800e-003	4.0000e-005	1.4700e-003	1.5100e-003	0.0000	2.0469	2.0469	5.6000e-004	0.0000	2.0587

Mitigated Construction Off-Site

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	1.6000e-004	1.6000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0345	0.0345	0.0000	0.0000	0.0345
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	2.5000e-004	2.4900e-003	0.0000	3.8000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3667	0.3667	2.0000e-005	0.0000	0.3671
Total	2.0000e-004	4.1000e-004	2.6500e-003	0.0000	3.9000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.4011	0.4011	2.0000e-005	0.0000	0.4016

3.18 Pond 4 MLE Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.8700e-003	0.0966	0.0593	8.0000e-005		6.6000e-003	6.6000e-003		6.0800e-003	6.0800e-003	0.0000	7.7620	7.7620	2.2500e-003	0.0000	7.8093
Total	9.8700e-003	0.0966	0.0593	8.0000e-005		6.6000e-003	6.6000e-003		6.0800e-003	6.0800e-003	0.0000	7.7620	7.7620	2.2500e-003	0.0000	7.8093

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Appendix A

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.9000e-004	3.3200e-003	5.4000e-003	1.0000e-005	0.0167	6.0000e-005	0.0167	1.7000e-003	5.0000e-005	1.7500e-003	0.0000	0.6613	0.6613	1.0000e-005	0.0000	0.6614
Worker	5.8000e-004	7.5000e-004	7.4600e-003	1.0000e-005	0.1230	1.0000e-005	0.1230	0.0125	1.0000e-005	0.0125	0.0000	1.1001	1.1001	6.0000e-005	0.0000	1.1014
Total	1.0700e-003	4.0700e-003	0.0129	2.0000e-005	0.1397	7.0000e-005	0.1398	0.0142	6.0000e-005	0.0142	0.0000	1.7614	1.7614	7.0000e-005	0.0000	1.7628

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.8700e-003	0.0812	0.0593	8.0000e-005		6.6000e-003	6.6000e-003		6.0800e-003	6.0800e-003	0.0000	7.7620	7.7620	2.2500e-003	0.0000	7.8093
Total	9.8700e-003	0.0812	0.0593	8.0000e-005		6.6000e-003	6.6000e-003		6.0800e-003	6.0800e-003	0.0000	7.7620	7.7620	2.2500e-003	0.0000	7.8093

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.9000e-004	3.3200e-003	5.4000e-003	1.0000e-005	1.9000e-004	6.0000e-005	2.4000e-004	5.0000e-005	5.0000e-005	1.1000e-004	0.0000	0.6613	0.6613	1.0000e-005	0.0000	0.6614
Worker	5.8000e-004	7.5000e-004	7.4600e-003	1.0000e-005	1.1300e-003	1.0000e-005	1.1400e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	1.1001	1.1001	6.0000e-005	0.0000	1.1014
Total	1.0700e-003	4.0700e-003	0.0129	2.0000e-005	1.3200e-003	7.0000e-005	1.3800e-003	3.5000e-004	6.0000e-005	4.2000e-004	0.0000	1.7614	1.7614	7.0000e-005	0.0000	1.7628

Woodland Citywide Pipeline Replacement Yolo County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	25,000.00	User Defined Unit	4.00	175,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2014
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Pipeline: 25,000 linear feet (100 feet/day over 250 days/year); assumed 7-feet wide trenches.

Construction Phase - Excavation and Pipeline Installation (Grading)

Off-road Equipment - 1 Concrete/Industrial Saw (1 hr/day); 1 Excavator (8 hrs/day); 1 Paving Equipment (1 hr/day); 1 Roller (2 hrs/day);

Tractor/Loader/Backhoe (1 hr/day)

Grading - 4 acres disturbed

Trips and VMT - 10 worker trips/day (5 workers). 2 vendor trips/day. 100 total haul truck trips (average 1 round trip per 5 days).

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Interior	262500	283500
tblConstructionPhase	NumDays	8.00	250.00
tblGrading	AcresOfGrading	125.00	4.00
tblLandUse	LandUseSquareFeet	0.00	175,000.00

Appendix A

tblLandUse	LotAcreage	0.00	4.00
tblOffRoadEquipment	HorsePower	81.00	16.00
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	100.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	15.00	10.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	1.9315	19.7476	11.7719	0.0161	11.6472	1.1034	12.7507	1.1789	1.0155	2.1943	0.0000	1,688.6475	1,688.6475	0.4543	0.0000	1,698.1883
Total	1.9315	19.7476	11.7719	0.0161	11.6472	1.1034	12.7507	1.1789	1.0155	2.1943	0.0000	1,688.6475	1,688.6475	0.4543	0.0000	1,698.1883

Mitigated Construction

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	1.9315	19.7476	11.7719	0.0161	0.1143	1.1034	1.2177	0.0281	1.0155	1.0436	0.0000	1,688.6475	1,688.6475	0.4543	0.0000	1,698.1883
Total	1.9315	19.7476	11.7719	0.0161	0.1143	1.1034	1.2177	0.0281	1.0155	1.0436	0.0000	1,688.6475	1,688.6475	0.4543	0.0000	1,698.1883

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	99.02	0.00	90.45	97.62	0.00	52.44	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading (Pipeline Installation)	Grading	1/2/2014	12/17/2014	5	250	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading (Pipeline Installation)	Graders	1	8.00	174	0.41
Grading (Pipeline Installation)	Excavators	1	8.00	162	0.38
Grading (Pipeline Installation)	Rollers	1	2.00	80	0.38
Grading (Pipeline Installation)	Concrete/Industrial Saws	1	1.00	16	0.73

Appendix A

Grading (Pipeline Installation)	Paving Equipment	1	1.00	130	0.36
Grading (Pipeline Installation)	Rubber Tired Dozers	0	1.00	255	0.40
Grading (Pipeline Installation)	Tractors/Loaders/Backhoes	1	4.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading (Pipeline Installation)	6	10.00	2.00	100.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Grading (Pipeline Installation) - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0170	0.0000	0.0170	1.8300e-003	0.0000	1.8300e-003			0.0000			0.0000
Off-Road	1.8263	19.2706	10.4931	0.0144		1.0951	1.0951		1.0078	1.0078		1,527.4754	1,527.4754	0.4486		1,536.8967
Total	1.8263	19.2706	10.4931	0.0144	0.0170	1.0951	1.1121	1.8300e-003	1.0078	1.0097		1,527.4754	1,527.4754	0.4486		1,536.8967

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Appendix A

Hauling	0.0149	0.1500	0.1756	3.0000e-004	0.7131	2.6000e-003	0.7157	0.0723	2.3900e-003	0.0747		30.7294	30.7294	2.7000e-004		30.7350
Vendor	0.0438	0.2633	0.5075	4.8000e-004	1.3021	5.0400e-003	1.3071	0.1323	4.6300e-003	0.1370		49.0075	49.0075	5.0000e-004		49.0181
Worker	0.0465	0.0637	0.5957	9.2000e-004	9.6151	6.7000e-004	9.6157	0.9724	6.1000e-004	0.9730		81.4352	81.4352	4.9200e-003		81.5385
Total	0.1052	0.4770	1.2788	1.7000e-003	11.6303	8.3100e-003	11.6386	1.1770	7.6300e-003	1.1847		161.1721	161.1721	5.6900e-003		161.2916

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0170	0.0000	0.0170	1.8300e-003	0.0000	1.8300e-003			0.0000			0.0000
Off-Road	1.8263	19.2706	10.4931	0.0144		1.0951	1.0951		1.0078	1.0078	0.0000	1,527.4754	1,527.4754	0.4486		1,536.8967
Total	1.8263	19.2706	10.4931	0.0144	0.0170	1.0951	1.1121	1.8300e-003	1.0078	1.0097	0.0000	1,527.4754	1,527.4754	0.4486		1,536.8967

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0149	0.1500	0.1756	3.0000e-004	6.6600e-003	2.6000e-003	9.2600e-003	1.8300e-003	2.3900e-003	4.2300e-003		30.7294	30.7294	2.7000e-004		30.7350
Vendor	0.0438	0.2633	0.5075	4.8000e-004	0.0128	5.0400e-003	0.0179	3.6900e-003	4.6300e-003	8.3200e-003		49.0075	49.0075	5.0000e-004		49.0181
Worker	0.0465	0.0637	0.5957	9.2000e-004	0.0779	6.7000e-004	0.0785	0.0207	6.1000e-004	0.0214		81.4352	81.4352	4.9200e-003		81.5385
Total	0.1052	0.4770	1.2788	1.7000e-003	0.0973	8.3100e-003	0.1057	0.0263	7.6300e-003	0.0339		161.1721	161.1721	5.6900e-003		161.2916

Woodland Citywide Pipeline Replacement Yolo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	25,000.00	User Defined Unit	4.00	175,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2	Operational Year	2014		
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Pipeline: 25,000 linear feet (100 feet/day over 250 days/year); assumed 7-feet wide trenches.

Construction Phase - Excavation and Pipeline Installation (Grading)

Off-road Equipment - 1 Concrete/Industrial Saw (1 hr/day); 1 Excavator (8 hrs/day); 1 Paving Equipment (1 hr/day); 1 Roller (2 hrs/day);

Trencher/Backhoe (1 hr/day)

Grading - 4 acres disturbed

Trips and VMT - 10 worker trips/day (5 workers). 2 vendor trips/day. 100 total haul truck trips (average 1 round trip per 5 days).

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Interior	262500	283500
tblConstructionPhase	NumDays	8.00	250.00
tblGrading	AcresOfGrading	125.00	4.00
tblLandUse	LandUseSquareFeet	0.00	175,000.00
Dudek		A-135	

tblLandUse	LotAcreage	Appendix A	4.00
tblOffRoadEquipment	HorsePower	81.00	16.00
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	100.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	15.00	10.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2014	0.2399	2.4667	1.4476	2.0200e-003	1.2423	0.1379	1.3802	0.1260	0.1269	0.2529	0.0000	191.7797	191.7797	0.0515	0.0000	192.8616
Total	0.2399	2.4667	1.4476	2.0200e-003	1.2423	0.1379	1.3802	0.1260	0.1269	0.2529	0.0000	191.7797	191.7797	0.0515	0.0000	192.8616

Mitigated Construction

Appendix A

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2014	0.2399	2.4667	1.4476	2.0200e-003	0.0139	0.1379	0.1518	3.4200e-003	0.1269	0.1304	0.0000	191.7795	191.7795	0.0515	0.0000	192.8614
Total	0.2399	2.4667	1.4476	2.0200e-003	0.0139	0.1379	0.1518	3.4200e-003	0.1269	0.1304	0.0000	191.7795	191.7795	0.0515	0.0000	192.8614

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	98.88	0.00	89.00	97.29	0.00	48.46	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading (Pipeline Installation)	Grading	1/2/2014	12/17/2014	5	250	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading (Pipeline Installation)	Graders	1	8.00	174	0.41
Grading (Pipeline Installation)	Excavators	1	8.00	162	0.38
Grading (Pipeline Installation)	Rollers	1	2.00	80	0.38
Grading (Pipeline Installation) Dudek	Concrete/Industrial Saws	1	A-137 1.00	16	0.73

Grading (Pipeline Installation)	Paving Equipment	Appendix A	1.00	130	0.36
Grading (Pipeline Installation)	Rubber Tired Dozers	0	1.00	255	0.40
Grading (Pipeline Installation)	Tractors/Loaders/Backhoes	1	4.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading (Pipeline Installation)	6	10.00	2.00	100.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Grading (Pipeline Installation) - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.1200e-003	0.0000	2.1200e-003	2.3000e-004	0.0000	2.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2283	2.4088	1.3116	1.8000e-003		0.1369	0.1369		0.1260	0.1260	0.0000	173.2128	173.2128	0.0509	0.0000	174.2812
Total	0.2283	2.4088	1.3116	1.8000e-003	2.1200e-003	0.1369	0.1390	2.3000e-004	0.1260	0.1262	0.0000	173.2128	173.2128	0.0509	0.0000	174.2812

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	1.5900e-003	0.0184	0.0173	4.0000e-005	0.0761	3.2000e-004	0.0764	7.7300e-003	3.8900e-004	8.0300e-003	0.0000	3.4894	3.4894	3.0000e-005	0.0000	3.4900
Vendor	4.5400e-003	0.0324	0.0482	6.0000e-005	0.1389	6.3000e-004	0.1395	0.0142	5.7000e-004	0.0147	0.0000	5.5815	5.5815	6.0000e-005	0.0000	5.5827
Worker	5.5000e-003	7.0900e-003	0.0705	1.2000e-004	1.0252	8.0000e-005	1.0253	0.1039	8.0000e-005	0.1040	0.0000	9.4960	9.4960	5.6000e-004	0.0000	9.5077
Total	0.0116	0.0578	0.1360	2.2000e-004	1.2401	1.0300e-003	1.2412	0.1258	9.5000e-004	0.1267	0.0000	18.5670	18.5670	6.5000e-004	0.0000	18.5805

Appendix A

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.1200e-003	0.0000	2.1200e-003	2.3000e-004	0.0000	2.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2283	2.4088	1.3116	1.8000e-003		0.1369	0.1369		0.1260	0.1260	0.0000	173.2126	173.2126	0.0509	0.0000	174.2809
Total	0.2283	2.4088	1.3116	1.8000e-003	2.1200e-003	0.1369	0.1390	2.3000e-004	0.1260	0.1262	0.0000	173.2126	173.2126	0.0509	0.0000	174.2809

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5900e-003	0.0184	0.0173	4.0000e-005	8.1000e-004	3.2000e-004	1.1300e-003	2.2000e-004	3.0000e-004	5.2000e-004	0.0000	3.4894	3.4894	3.0000e-005	0.0000	3.4900
Vendor	4.5400e-003	0.0324	0.0482	6.0000e-005	1.5600e-003	6.3000e-004	2.1800e-003	4.5000e-004	5.7000e-004	1.0300e-003	0.0000	5.5815	5.5815	6.0000e-005	0.0000	5.5827
Worker	5.5000e-003	7.0900e-003	0.0705	1.2000e-004	9.4200e-003	8.0000e-005	9.5100e-003	2.5200e-003	8.0000e-005	2.5900e-003	0.0000	9.4960	9.4960	5.6000e-004	0.0000	9.5077
Total	0.0116	0.0578	0.1360	2.2000e-004	0.0118	1.0300e-003	0.0128	3.1900e-003	9.5000e-004	4.1400e-003	0.0000	18.5670	18.5670	6.5000e-004	0.0000	18.5805

Dudek

A-139

**Woodland SRF
Operational GHG Emissions**

	Existing Aeration Process	MLE Aeration Process
Cost (\$/year)	560,000	400,000
Cost Basis (\$/kWh)	0.13	0.13
kWh/year	4,307,692	3,076,923
MWh/year	4,308	3,077
PG&E lb CO₂/MWh	641.35	641.35
CO₂ (lb/year)	2,762,717	1,973,369
CO₂E (lb/year)	2,776,266	1,983,047
CO₂E (MT/year)	1,259.29	899.50
Reduction (MT CO₂E/year)		359.80
Reduction (%)		29%

Woodland SRF
CO₂-to-CO₂ Equivalent Factors

	Source	Units	CO₂	CH₄	N₂O	CO₂E/CO₂
Global Warming Potential			1	21	310	
Electrical Generation	1	lb/MWh	641.35	0.0302	0.0081	1.005

Serving Utility: PG&E

PG&E 641.35

PG&E

1. Pacific Gas & Electric. 2010. Annual Emissions Report. https://www.climateregistry.org/CarrotDocs/19/2008/2008_PG&E_CCAR_PUP_Spreadsheet_FINAL_2-11-10.xls and California Climate Action Registry. 2009. *General Reporting Protocol: Reporting Entity-Wide Greenhouse Gas Emissions*, Version 3.1, Table C.2.

APPENDIX B

Biological Resources Assessment



**Biological Resources Assessment
of the Proposed Aeration System Retrofit Design Project at the
City of Woodland Water Pollution Control Facility**

Prepared for:

City of Woodland
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Prepared By:

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916-921-2515

March 26, 2013

Introduction

Background

The City of Woodland's (City) Water Pollution Control Facility (WPCF) provides tertiary-level treatment and disinfection for wastewater generated within the City. A recent study has determined that the actual capacity of its secondary-level water treatment process is less than its rated capacity due to insufficient aeration. The City intends to correct this deficiency by making improvements to the secondary process to restore capacity to its original design value. Improvements include the following:

- Replace existing aeration brushes with more energy efficient bubble diffusers;
- Add a new blower building to house new energy-efficient aeration blowers; and,
- Implement process modifications to the oxidation ditches to improve secondary process performance and settleability. Modifications will consist of adding selector zones with baffling and mixers.

Replacement of aeration brushes and modifications to oxidation ditches occur within the existing facility, are unlikely to result in impacts to biological resources, and are therefore not addressed in this biological resources assessment. However, the new blower building will be constructed immediately adjacent to but outside of the existing perimeter fence and is the subject of this assessment.

The City is currently preparing an Initial Study for the project in accordance with the California Environmental Quality Act (CEQA) (Public Resources Code §21000 - §21177). This biological resources assessment will supplement the Initial Study for purposes of addressing the biological issues included on the Initial Study Checklist.

This biological resources assessment describes the biological setting of the proposed project, provides a summary of natural communities, habitats, and terrestrial wildlife and plant resources including special-status species, and provides a preliminary assessment of potential impacts and recommendations for additional surveys or evaluation.

Project Description

The total construction envelope (building pad), which will include the blower building and an asphalt perimeter includes approximately 11,246 square feet, or 0.26 acres. This building pad will be elevated by 4 feet of fill to bring it to the approximate elevation of the existing facility. The blower building will be approximately 36 x 96 feet and will sit near the upper center of the building pad (Figure 1). The asphalt perimeter will extend 5 feet on the northern edge of the building where it will connect with the existing facility, and 30 feet from the east, west, and southern edges of the building on a 2.5% slope. A curb and gutter will be constructed around the edge of the paved surface to prevent concentrated flows onto the sloped surfaces. The northwest and northeast edges of the

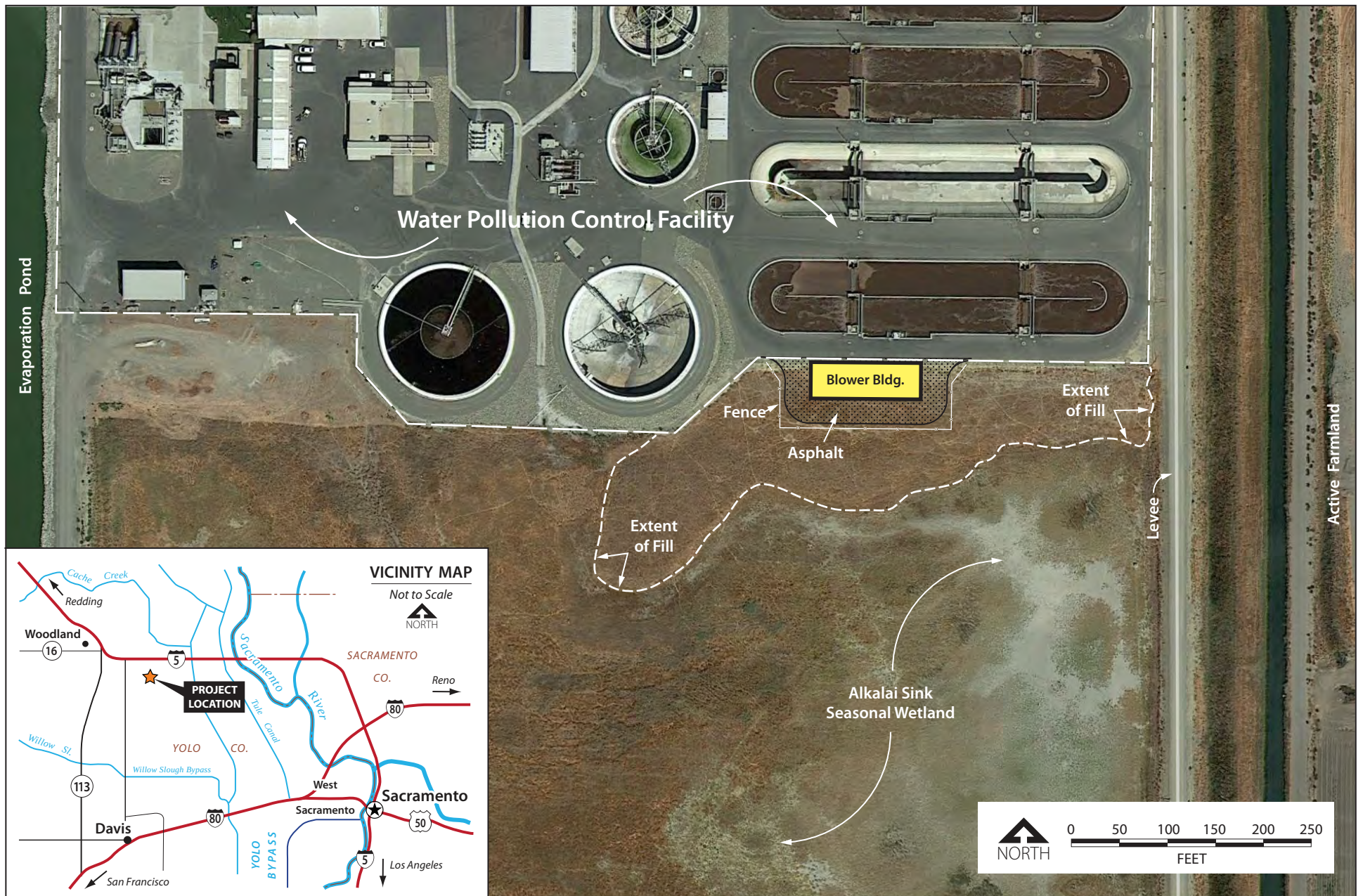


Figure 1
Proposed WPCF Blower Building Project Site

pad will flare outward until they connect with the existing facility. A chain-link fence will surround the new building pad and connect with the existing perimeter fence.

Project Location and Setting

The WPCF is located on the southeastern edge of the City south of Interstate 5 and east of County Road 102 (Figure 1). The surrounding area is primarily agricultural; however, urbanization from the City extends to the west side of County Road 102 and north of Interstate 5. The WPCF facility includes the water treatment facility and a series of treatment and evaporation ponds to the north and south. The proposed blower building site is located on the southeastern edge of the WPCF immediately adjacent to the perimeter fence (Figure 1). Its bordered on the north by the perimeter fence and open space to the west, east, and south. The proposed site sits on existing fill material placed during the construction of the existing facility. The fill material extends along the southern boundary of the existing facility ranging from approximately 90 feet to 150 feet south of the perimeter fence in the vicinity of the proposed project. Its elevation is approximately 4 feet below that of the existing facility, and approximately 2 feet above the natural grade.

An approximately 23-acre remnant natural area occurs immediately south of the WPCF and proposed project site (Figure 1). It is bordered on the west and south by treatment ponds and on the east by farmland. This natural area is primarily a seasonal wetland complex that retains characteristics of the native alkali sink natural community historically common to this area. The proposed project site as well as the existing facility were also formerly part of a larger alkali sink natural community that existed in this portion of Yolo County (<http://www.yoloconservationplan.org/species.html>).

Objectives

The purpose of this biological resources assessment is to describe and evaluate the biological resources and use of the project site. Based on a reconnaissance-level survey of the project site, the assessment describes the presence and distribution of natural communities and habitats, the occurrence or potential for occurrence of special-status species, and the general biological use of the area. This information will help determine the scope of any subsequent environmental impact assessments with regard to biological resources and will be used to assess impacts to biological resources from implementation of the proposed project pursuant to CEQA guidance.

Methods

Pre-survey Investigation

Prior to conducting the site visit, available information regarding biological resources on or near the project site was gathered and reviewed. Sources included:

- California Natural Diversity Data Base;
- Yolo County General Plan;
- City of Woodland General Plan
- Yolo Natural Heritage Plan species accounts and maps
- Estep 2008 (Distribution, Abundance, and Habitat Associations of the Swainson's Hawk in Yolo County)
- Dean 2009 (Woodland Regional Park Special-Status Plant Survey Report)
- Center for Natural Lands Management Alkali Grasslands Preserve Report

Aerial photographs and land use/vegetation maps of the project site and surrounding area were also reviewed.

Field Surveys

A biological resources survey of the project site was conducted on March 1, 2013. The survey was designed for complete coverage of the proposed project site and to record land uses, natural communities and wildlife habitats, occurrences of sensitive wildlife resources, and general wildlife use of the area. The survey was conducted by walking meandering transects approximately 10-feet apart throughout and adjacent to the project site. All vegetation, land uses, and habitat types were noted, mapped, and evaluated. All water conveyance channels or swales, fence rows, and other physical and topographic features were inspected and evaluated. Surveys for special-status plants were not conducted. Binoculars and spotting scope were used to identify wildlife occurrences. Representative photographs were taken from several vantage points. Locations of significant wildlife occurrences were photographed and recorded using a Garmin Etrex Global Positioning Systems (GPS) unit.

Results

General Characteristics

Physiography

The topography in the project area is generally flat; however, the site was apparently used as a spoils area during construction of the existing WPFC. This fill area extends along the southern perimeter fence of the existing facility from a permanent water conveyance channel and levee bordering the eastern edge of the facility westward for over 500 feet and from the perimeter fence south ranging from approximately 90 to 150 feet in the vicinity of the proposed project site. To the south, the fill area drops in elevation beyond the 30-foot contour line 1 to 2 feet toward the natural alkali wetland area. Prior to construction of the WPFC facility, the fill area and the existing WPFC were part of a once larger natural alkali wetland complex. To the north, the elevation increases by

approximately 4 feet toward the existing WPFC facility. The fill area itself, the location of the proposed project, is flat with no discernable topography or hydrological features. The climate in the vicinity of the project site is mild with average annual maximum temperature of 73.6 degrees Fahrenheit and average annual minimum temperature of 49.0 degrees Fahrenheit, with winter rains and dry summers, and an average annual rainfall of approximately 20 inches.

Land Use

Land use on the project site is considered idle or vacant. Because it consists of fill material, it is not considered a natural feature or part of the adjacent wetland complex; however, since its initial disturbance it has developed grassland characteristics and retains alkaline soils that are characteristic of the adjacent alkali sink natural community.

Surrounding Land Uses

The project site is bordered on the north by the existing WPFC facility, which consists of settling basins, sedimentation tanks, surface-aerated basins, office facilities, and other standard components of a waste water treatment facility. Other large settling basins and evaporation ponds occur north of the main facility and south of the adjacent natural area, which occurs along the southern border of the WPFC facility and proposed project site. While part of the long-range plan for facility expansion, this approximately 26-acre natural area remains largely undisturbed and functions as a seasonal wetland/grassland complex.

Lands east and south of the WPFC facility are primarily under active cultivation and are contiguous with the large agricultural landscape of Yolo County. Urbanization from the City of Woodland extends to the western edge of County Road 102 to the west and to Interstate 5 on the north.

Biological Communities and Wildlife Habitats

The approximately 0.26 acre project site consists entirely of a mixture of annual grasses and weedy non-native species (Plate 1). The plant community presumably developed since the fill was deposited following construction of the WPFC.

Annual Grassland

The project site (Plate 1) consists primarily of a mixture of annual grasses including wild oat (*Avena fatua*), soft chess (*Bromus hordeaceus*), medusahead (*Taeniatherum caput-medusae*), perennial ryegrass (*Lolium multiflorum*), and Mediterranean barley (*Hordeum marinum*), and a variety of common agricultural weeds. Several small openings indicate the retention of alkaline soils. Annual grassland natural community is also found along the entire southern perimeter of the WPFC, also appearing to have been placed as fill during construction of the WPFC, and within the adjacent alkali seasonal wetland

community. Approximately 150 feet from the WPFC perimeter fence (at the project site) the grassland fill area drops between 1 to 2 feet in elevation to the natural grade of the adjacent seasonal wetland community (Plates 2 through 4).



Plate 1. Location of the proposed project, looking west from the levee bordering the eastern boundary of the WPFC facility. The new building site will extend directly off of the existing facility. Note the annual grass and non-native weed plant composition of the site, and the approximately 4-foot transition from the project site to the elevation of the existing facility.

Adjacent Alkali Seasonal Wetlands

The approximately 26-acre alkali seasonal wetland immediately south of the proposed project site (Plates 2 through 4) is remnant of a once larger alkali sink natural community that historically extended throughout much of the area east and southeast of the City. Other nearby remnant patches of this community exist in the general area between County Road 24 south to Willow Slough and east to County Road 103 (Figure 2). Two of these remnant patches are currently managed as alkali sink preserves, Woodland Regional Park and Alkali Grasslands Preserve, both located near County Road 25 and County Road 102, within 1 mile of the project site. The adjacent patch is isolated from other remnant patches and surrounded by WPFC evaporation ponds and agricultural lands. The vegetation and elevational transition between the grassland fill area (project site) and the alkali seasonal wetland is shown on Plates 2 through 4.



Plate 2. Proximity of the project site to the adjacent wetland, looking west from the levee bordering the eastern edge of the WPFC. Note the transition from the wetland (light brown to light green) to the fill area of the project site (dark green). The project boundary will extend southward (left) from the perimeter fence approximately two-thirds of the distance between the existing fence and the wetland transition edge.



Plate 3. Looking northeast from southwest of the project site showing the vegetation and elevational transition between the project site and the adjacent wetland.



Plate 4. Looking due north toward the project site with the WPFC facility in the background. Note the clear transition from the alkali seasonal wetland in the foreground to the grassy fill area of the project site.

Wildlife Occurrence and Use

Because the proposed project site is entirely grassland, wildlife use is limited to those species that nest or forage in grassland habitats and that also may use the adjacent seasonal wetland habitat. Evidence of meadow vole (*Microtus californicus*) was present throughout much of the 0.26 acre site. This species is likely present throughout the adjacent grasslands and edge habitats and in the upland grassland portion of the adjacent alkali seasonal wetland community. There was also evidence of use by pocket gophers (*Thomomys bottae*), and black-tailed jackrabbit (*Lepus californicus*) was observed onsite and on adjacent grassland habitats.

Bird species observed during the survey included red-wing blackbird (*Agelaius phoeniceus*), Brewer's blackbird (*Euphagus cyanocephalus*), mourning dove (*Zenaida macroura*), and yellow-rumped warbler (*Dendroica coronata*). The project site and surrounding grassland areas are likely used by both breeding and wintering grassland-associated birds for foraging. The lack of trees or shrubs on the site provide few nesting opportunities with the exception of ground-nesting birds such as western meadowlark (*Sturnella neglecta*). No nesting activity was observed during the survey, in part due to

the time of year the survey was conducted; however, the potential use of the site by ground-nesting birds is limited due to the small size of the project site.

Raptor species, including northern harrier (*Circus cyaneus*), which was observed foraging in the adjacent seasonal wetlands, also likely forage on the project site. Meadow voles are a key species in the diet of most diurnal raptors in the Central Valley, and the presence of this rodent on the project site is likely to attract occasional foraging activity by several local raptor species. Only ground-nesting raptors, including northern harrier and burrowing owl (*Athene cunicularia*), have potential to nest on the project site; however, the northern harrier is more likely to occur within the more dense vegetation of the seasonal wetland complex. An active burrowing owl nest was observed adjacent to the project site and is addressed below under special-status species.

No reptiles or amphibians were observed during the survey; however, due to the close proximity of the seasonal wetland complex, tree frog (*Pseudacris regilla*) potentially occurs onsite; and gopher snake (*Pituophis catenifer*) and western fence lizard (*Sceloporus occidentalis*), both common throughout Yolo County, potentially occur onsite and throughout the adjacent grasslands and edge habitats.

Special-status Species

Special-status species are generally defined as species that are assigned a status designation indicating possible risk to the species. These designations are assigned by state and federal resource agencies (e.g., California Department of Fish and Wildlife [CDFW], U.S. Fish and Wildlife Service) or by private research or conservation groups (e.g., National Audubon Society, California Native Plant Society). Assignment to a special-status designation is usually done on the basis of a declining or potentially declining population, either locally, regionally, or nationally. The extent to which a species or population is at risk usually determines the status designation. The factors that determine risk to a species or population generally fall into one of several categories, such as habitat loss or modification affecting the distribution and abundance of a species; environmental contaminants affecting the reproductive potential of a species; or a variety of mortality factors such as hunting or fishing, interference with man-made objects (e.g., collision, electrocution, etc), invasive species, or toxins.

For purposes of CEQA environmental review, special-status species are generally defined as follows:

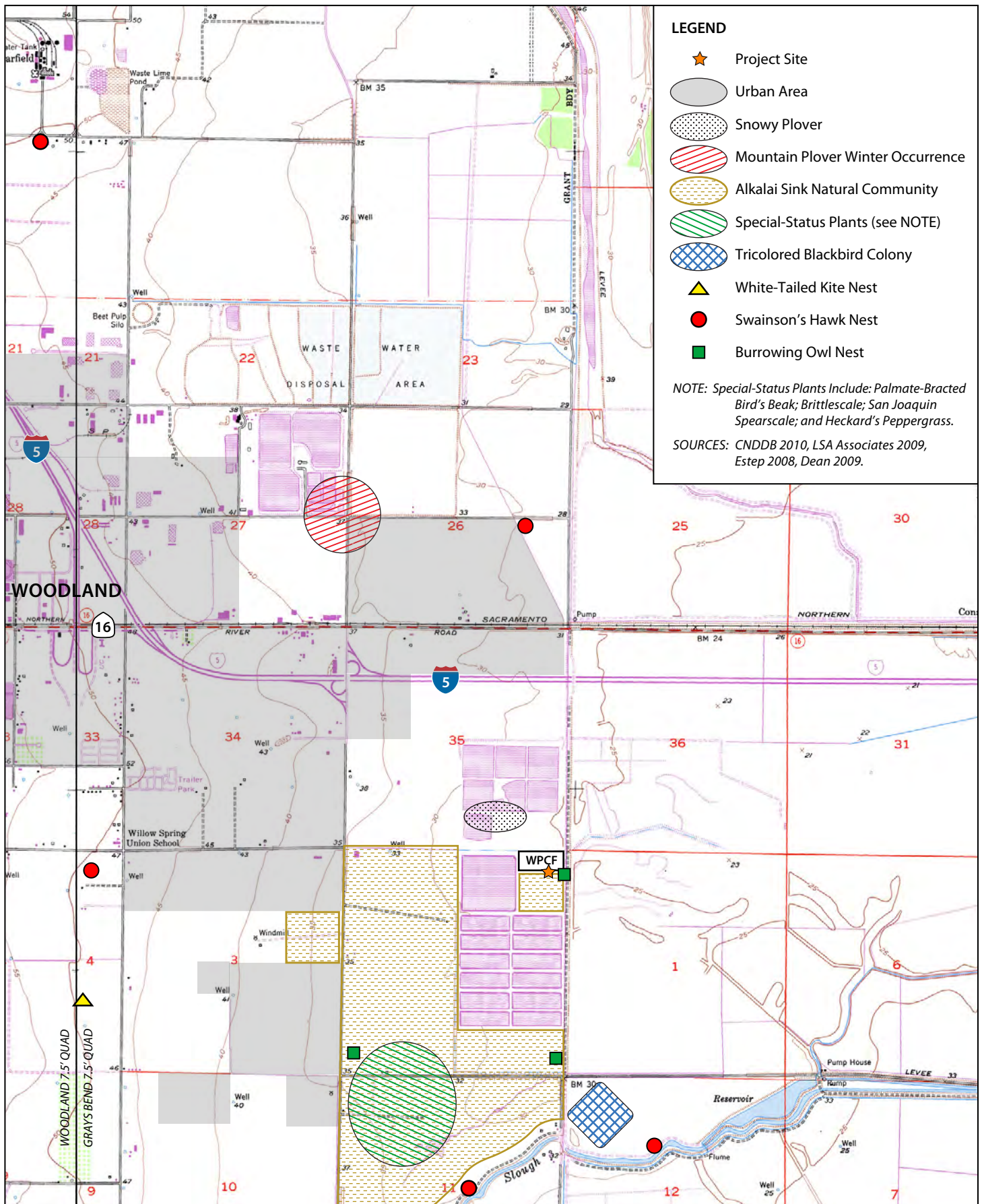
- Species that are listed, proposed, or candidates for listing under the federal Endangered Species Act (50 CFR 17.11 – listed; 61 FR 7591, February 28, 1996 - candidates);
- Species that are listed or proposed for listing under the California Endangered Species Act (Fish and Game Code 1992 Sections 2050 et seq.; 14 CCR Sections 670.1 et seq.);
- Species that are designated as Species of Special Concern by CDFW;

- Species that are designated as Fully Protected by CDFW (Fish and Game Code, Section 3511, 4700, 5050, and 5515;
- Species included on Lists 1B or 2 by the California Native Plant Society;
- Species that meet the definition of rare or endangered under CEQA (14 CCR Section 15380).

Table 1 lists the special-status species with potential to occur in the vicinity of the project site based on their local and regional distribution and indicates whether or not they occur or have potential to occur on or adjacent to the project site based on reported observations and/or the availability of suitable habitat. Each of these species is also described in more detail below. Figure 2 illustrates the location of reported special-status species occurrences in the vicinity of the project site.

Table 1. Special-status species with potential to occur in the vicinity of the project area.

Species	Status State/federal/ CNPS	Habitat Association	Habitat Availability in the Project Area	Occurrence on the Project Site
Vernal pool fairy shrimp <i>Branchinecta lynchi</i>	-/T	Vernal pools and other seasonal wetlands	May have potential to occur within the adjacent seasonal wetland complex	No. There are no suitable wetlands present on the 0.26 acre project site.
Vernal pool tadpole shrimp <i>Lepidurus packardii</i>	-/E	Vernal pools and other seasonal wetlands	May have potential to occur within the adjacent seasonal wetland complex	No. There are no suitable wetlands present on the 0.26 acre project site.
Conservancy fairy shrimp <i>Branchinecta conservatio</i>	-/	Vernal pools and other seasonal wetlands	May have potential to occur within the adjacent seasonal wetland complex	No. There are no suitable wetlands present on the 0.26 acre project site.
Valley elderberry longhorn beetle <i>Desmocerus californicus dimorphus</i>	-/T	Elderberry shrubs	No elderberry shrubs are present in or near the project site.	No
Giant garter snake <i>Thamnophis gigas</i>	T/T	Streams, water conveyance channels	Low suitability in channel east of the project site, but not known to occur in area.	No
Western pond turtle <i>Actinemys marmorata</i>	CSC/-	Streams, ponds, water conveyance channels	Low suitability in channel east of the project site.	No
White-tailed kite <i>Elanus leucurus</i>	FP/-	Riparian trees, woodlands, roadside trees, grasslands, agricultural lands	Nearest suitable nesting habitat at Willow Slough and at Woodland Regional Park, south of CR 25.	Project site supports suitable foraging habitat.
Northern harrier <i>Circus cyaneus</i>	CSC/-	Grasslands, seasonal marshes, some agricultural habitats	Nesting/foraging habitat on adjacent seasonal wetland	Project site supports suitable foraging habitat



BASE MAP: USGS 7.5'-Series Woodland (1952, Photorevised 1981) and Grays Bend (1953, Photorevised 1968 and 1975), California Quadrangles.

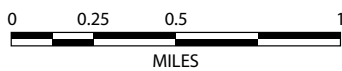


Figure 2
Location of Special-Status Species Occurrences in the Vicinity of the City of Woodland WPCF

Species	Status State/federal/ CNPS	Habitat Association	Habitat Availability in the Project Area	Occurrence on the Project Site
Swainson's hawk <i>Buteo swainsoni</i>	T/-	Riparian trees, woodlands, roadside trees, grasslands, agricultural lands	Nearest suitable nesting habitat at Willow Slough and at Woodland Regional Park	Project site supports suitable foraging habitat
Snowy plover <i>Charadrius alexandrinus nivosus</i>	CSC/-	Alkali lakeshores, dry evaporation ponds	Suitable habitat along WPFC evaporation pond levees	No
Mountain plover <i>Charadrius montanus</i>	CSC/-	Plowed agricultural fields during winter	Surrounding ag lands may provide suitable habitat	No
Burrowing owl <i>Athene cunicularia</i>	CSC/-	Grasslands, ruderal habitats, field edges with ground squirrel activity	Suitable nesting habitat along fence rows and berms adjacent to ag fields and grassland habitats	Project site supports suitable foraging habitat. Nest along the WPCF perimeter fence immediately east of project site
Loggerhead shrike <i>Lanius ludovicianus</i>	CSC/-	Grasslands, agricultural lands	No nesting habitat available in the immediate vicinity.	Project site supports suitable foraging habitat
Tricolored blackbird <i>Agelaius tricolor</i>	CSC/-	Emergent marshes, blackberry thickets, silage, pastures, some agricultural habitats	Potential nesting habitat in nearby marshes. Active colony 1 mile south of project site	Project site supports suitable foraging habitat
Pallid Bat <i>Antrozous pallidus</i>	SSC/-	Shrublands, grasslands, ag lands, woodlands; rocky areas, caves, mines, trees, buildings for roosting.	Nearest possible roosting habitat is along Willow Slough. May hunt above wetlands and ag lands	May forage above project site
Townsend's Big-eared Bat <i>Corynorhinus townsendii townsendii</i>	SSC/-	Most low to mid-elevation habitats; caves, mines, and buildings for roosting.	No roosting habitat, may forage wetlands and ag lands	May forage above project site
Palmate-bracted bird's beak <i>Cordylanthus palmatus</i>	E/E	Alkali playa/meadow	Known to occur in Woodland Regional Park, about 1 mile south of project site	Unlikely on project site fill, but some potential if present in seed bank
Brittlescale <i>Atriplex depressa</i>	-/-1B	Alkali playa, vernal pools, valley grasslands	Known to occur in Woodland Regional Park, about 1 mile south of project site	Unlikely on project site fill, but some potential if present in seed bank
San Joaquin spearscale <i>Atriplex joaquiniana</i>	-/-1B	Alkali playa, vernal pools, valley grasslands	Known to occur in Woodland Regional Park, about 1 mile south of project site	Unlikely on project site fill, but some potential if present in seed bank

Species	Status State/federal/ CNPS	Habitat Association	Habitat Availability in the Project Area	Occurrence on the Project Site
Rose mallow <i>Hibiscus lasiocarpus</i>	-/-/2	Freshwater marshes, riparian	Not in the immediately vicinity	No
Alkali milkvetch (<i>Astragalus tener</i>)	-/-/1B		Known to occur in Woodland Regional Park, about 1 mile south of project site	Unlikely on project site fill, but some potential if present in seed bank
Heckard's peppergrass (<i>Lepidium latipes</i>)	-/-/1B		Known to occur in Woodland Regional Park, about 1 mile south of project site	Unlikely on project site fill, but some potential if present in seed bank

T=threatened; E=Endangered; CSC=California species of species concern; FP=state fully protected; 1B=CNPS threatened or endangered in California; 2=CNPS

Aquatic Invertebrates

Several special-status invertebrates are known to occur in vernal pool and other seasonal wetland habitats in Yolo County including vernal pool tadpole shrimp (*Lepidurus packardii*) and conservancy fairy shrimp (*Branchinecta conservatio*), both federally listed endangered species, and vernal pool fairy shrimp (*Branchinecta lynchi*), a federally listed threatened species. Collectively, these species occur within a range of specific environmental conditions unique to certain vernal pool communities that include soil type, vegetation characteristics, water depth, water temperature, inundation duration, and water quality (Ericksen and Belk 1999). As a result of the substantial loss of vernal pool habitats in the Central Valley from urbanization and agricultural conversion, populations of these species have declined throughout their range (U.S. Fish and Wildlife Service 1994). There are no vernal pool or other seasonal wetland habitats on the project site and therefore no potential for these species to occur. However, there may be potential for occurrence elsewhere in the adjacent alkali wetland complex.

Valley Elderberry Longhorn Beetle

The Valley Elderberry Longhorn Beetle (VELB) (*Desmocerus californicus dimorphus*) is a federally-listed threatened species. VELB is a medium-sized woodboring beetle, about 0.8 inches long. Endemic to California's Central Valley and watersheds that drain into the Central Valley (Barr 1991), this species' presence is entirely dependent on the presence of its host plant, the elderberry shrub (*Sambucus* spp.).

VELB is a specialized herbivore that feeds exclusively on elderberry shrubs, the adults feeding on leaves and flowers, and the larvae on the stem pith. Habitat for VELB consists of elderberry shrubs with stems greater than 1 inch in basal diameter. Elderberry grows in upland riparian forests or savannas adjacent to riparian vegetation, but also occurs in oak woodlands and savannas and in disturbed areas. It usually co-occurs with other woody riparian plants, including Fremont cottonwood, California sycamore

(*Platanus racemosa*), various willows, wild grape (*Vitus californica*), blackberry (*Rubus* spp.), and poison-oak (*Rhus diversiloba*) (U.S. Fish and Wildlife Service 1984, Collinge et al 2001), but can also occur as an isolated shrub in open grasslands or along fence rows or field borders in grassland and agricultural areas.

There are no elderberry shrubs present on or adjacent to the project site and therefore no potential for this species to occur.

Northern Harrier

The northern harrier is designated as a state species of special concern (Shuford and Gardali 2008). It is a medium-sized hawk with a slight build and relatively long tail and wings (3.5 foot wingspan). Adult males are pale gray, while juveniles and females are brown. All plumages show a distinctive white rump patch in flight (Sibley 2000).

In California, this species is a permanent resident of the northeastern plateau, coastal areas, and the Central Valley. It is also a widespread winter visitor and migrant in suitable habitat. While declines in the California population have been noted for many years (Grinnell and Miller 1944, Remsen 1978), the species can be locally abundant where suitable habitat remains free of disturbance, especially from intensive agriculture. Breeding populations have declined from destruction of wetland habitats, native grasslands, and moist meadows, and in agricultural areas from burning and plowing of nest sites during early stages of the breeding cycle (Remsen 1978, MacWhirter and Bildstein 1996).

The northern harrier is a ground-nesting raptor, constructing rudimentary nest sites on the ground in marsh, grassland, and some agricultural habitats, particularly grain fields. They forage in seasonal wetland, grassland, and agricultural habitats for voles and other small mammals, birds, frogs, and small reptiles, crustaceans, and insects. They also roost on the ground, using tall grasses and forbs in wetlands, or along wetland/field borders for cover (MacWhirter and Bildstein 1996).

No northern harriers were observed on the project site during the field survey; however the species was observed on the adjacent alkali sink seasonal wetland complex, which provides both suitable nesting and foraging habitat for this species. Northern harriers may forage on the project site.

White-tailed Kite

The white-tailed kite is designated a state fully protected species. The white-tailed kite is a highly specialized and distinctively marked bird of prey; smaller than most hawks with a wingspan of just over three feet, white underneath and light gray above, black shoulder patches, and white tail (Dunk 1995). The species name is derived from its distinctive hunting behavior, kiting, hovering in the air while hunting for prey.

The white-tailed kite is known primarily from the Central Valley and coastal areas of California; however, breeding has also been documented in parts of Oregon and Washington, southern Texas, Florida, and south from northern Mexico to South America.

In the Central Valley, white-tailed kites nest in riparian forests and woodlands, woodlots, and occasionally in isolated trees. They forage in grasslands, seasonal wetlands, and agricultural fields. Like most raptors, its distribution is determined more by prey abundance and vegetation structure than by specific plant associations. They appear to be more sensitive to intensive farming practices and while they are found in agricultural areas, populations have likely declined as a result of conversion from native grassland and seasonal wetland habitats to agriculture. White-tailed kites prey mainly on small rodents, especially California vole, but also take small birds, reptiles, and insects (Dunk 1995, Erichsen 1995).

No white-tailed kites were observed during the field survey and no nesting habitat exists on or near the project site. The nearest suitable nesting habitat for white-tailed kite is along Willow Slough and the Woodland Preserve south of the County Road 25. The nearest reported white-tailed kite nest is approximately 2 miles southwest of the project site (Figure 2). The project site does, however, support suitable foraging habitat for this species.

Swainson's Hawk

Swainson's hawk is a state-listed threatened species. It is a medium-sized hawk with long (3.5 to 4 feet) narrow wings, dark breast and head, and with several distinctive plumage variations on the underwing coverts and belly (England et al. 1997). Swainson's hawk is an open country species found throughout the plains and deserts of the western United States. Associated primarily with open grassland habitats, throughout much of its range it is currently known to also occur in agricultural habitats, which has displaced much of the grassland habitat throughout North America. Formerly occurring throughout the lowland areas of California, as a result of habitat loss and conversion to agriculture, populations are now restricted mainly to the Central Valley and Great Basin portions of the state.

In the Central Valley, Swainson's hawks nest in riparian forests, remnant oak woodlands, isolated trees, and roadside trees. They forage primarily in agricultural habitats, particularly those that optimize availability of prey (e.g., alfalfa and other hay crops, some row and grain crops), but also use irrigated pastures and annual grasslands (Estep 1989, 2009). The principal prey item of Swainson's hawks in the Central Valley is the California vole, but other small mammals, birds, reptiles, and insects are also taken (Estep 1989, England et al. 1997).

Yolo County is within the core breeding area for Swainson's hawks in the Central Valley. Supporting as many as 300 nesting pairs, the breeding density in Yolo County is the highest reported anywhere within the range of the species (Estep 2008).

No Swainson's hawks were observed during the field survey and no potential nesting habitat for this species exists on or near the project site. The nearest suitable nesting habitat for Swainson's hawk is along Willow Slough and the Woodland Preserve south of the County Road 25. The nearest reported nest site is approximately 1.5 miles southeast of the project site (Figure 2). The project site does, however, support suitable foraging habitat for this species.

Western Snowy Plover

The inland population of western snowy plover (*Charadrius alexandrinus nivosus*) is designated as a state species of special concern. This small shorebird is a medium-distance migrant that nests primarily in the United States and winters in coastal areas of the southeastern U.S., and in Mexico and Central America (Page et al. 1995a). Similar to other plover species, the western snowy plover has a pointed black bill, relatively long legs and bill, short wings, and pale to black side patches on the collar. Its plumage is much paler than other plovers.

Arriving on their breeding grounds in February to March, snowy plovers nest in sand dunes on beaches and lakes, on shores of alkaline lakes, in dry evaporation ponds, and rarely on unvegetated islands in freshwater ponds. Fall migration is protracted and can extend from mid-June until mid-November (Page et al. 1995a).

Snowy plovers are found year-round in California, but breed and winter in different locations and habitats. Nesting in unvegetated open areas, primarily sand dunes, alkali lakeshores, and dry evaporation ponds, most snowy plovers that breed in the Central Valley migrate to the coast to winter primarily on beaches and a few dry evaporation ponds (Page et al. 1986, 1995b). Inland nesting birds begin to leave the breeding areas by early July and finish migrating by mid-October (Page et al. 1995a).

In Yolo County, snowy plovers have nested twice at the Yolo Bypass Wildlife Area in 1998, and at the Old Davis Sewage Ponds in 1963; they have also been detected during migration at those locations as well as the Davis Wetlands and along the evaporation pond levees of the WPFC (Yolo Audubon Society Checklist Committee 2004) (Figure 2). However, no nesting has been reported from the WPFC.

Mountain Plover

The mountain plover (*Charadrius montanus*) is designated as a state species of special concern. The mountain plover is a small, plainly-plumaged, brown and white plover slightly larger than the snowy plover. Mountain plovers are short to medium-distance migrants that nest primarily in the western Great Plains of the United States and winter in California, Arizona, New Mexico and northern Mexico (Knopf and Wunder 2006). Unlike most other plover species, the mountain plover is an upland species, often found far from water.

The mountain plover does not breed in California, but does occur during the winter. The species arrives on its wintering grounds in California from November through December where it remains through March (Hunting and Edson 2008).

The wintering habitat of mountain plovers in the Central Valley has been described as pastureland nearly devoid of vegetation (Stoner 1942), sparsely vegetated fields (Manolis and Tangren 1975), grazed grasslands and disked agricultural fields (Hunting et al. 2001, Hunting and Edson 2008). The species occurs only in areas either devoid of or with very sparse and short vegetation.

Mountain plovers are regular, but uncommon, winter visitors to Yolo County. Small flocks have been observed in recently-plowed agricultural fields near Woodland and Davis, especially along County Roads 16, 25, 27, and 102 (Figure 2), and in unflooded portions of the Yolo Bypass. The project site does not support suitable habitat for this species.

Western Burrowing Owl

The western burrowing owl (*Athene cunicularia*) is designated as a state species of special concern. The burrowing owl is a small ground-dwelling owl with a round head, yellow eyes, and long legs (Haug et al. 1993).

The burrowing owl occurs throughout most of western United States and northern Mexico. They also occur in southern Florida and on some Caribbean islands (Haug et al. 1993). In California, burrowing owls occur in open habitats throughout most of the state with the exception of the northwestern corner. Burrowing owls are found in open, dry grasslands, agricultural and range lands, and desert habitats. In the Central Valley, they are associated with remaining grassland habitats, pasturelands, and edges of agricultural fields. They also occur in vacant lots and remnant grassland or ruderal habitats within urbanizing areas. Historically nesting in larger colonies, due to limited nesting habitat availability most of the more recent occurrences are individual nesting pairs or several loosely associated nesting pairs.

The burrowing owl is a subterranean-nesting species, typically occupying the burrows created by California ground squirrels (*Spermophilus beecheyi*). They also occupy artificial habitats, such as those created by rock piles and occasionally in open pipes and small culverts. They forage for small rodents and insects in grassland and agricultural habitats with low vegetative height.

In Yolo County, burrowing owls occur in the grassland and pasture habitats of the southern panhandle and in the Davis area. Most isolated occurrences have been reported from the Dunnigan Hills, and in the agricultural lands between Davis and Woodland. There are two recently reported occurrences approximately 1 mile south of the project site (CNDDDB 2010) (Figure 2).

An active burrowing owl nest was found immediately adjacent to the project site during the survey. The active burrow is adjacent to the WPFC perimeter fence at the extreme southeast corner of the facility (Plates 5 and 6). The nesting burrow is approximately 220 feet from the eastern edge of the proposed project footprint.



Plate 5. Southeast corner of the existing facility showing the active burrowing owl burrow at the base the perimeter fence.



Plate 6. Close-up of the active burrowing owl burrow at the southeast corner of the perimeter fence. The owl can be seen near the center of the photograph.

Tricolored Blackbird

The tricolored blackbird (*Agelaius tricolor*) is a state species of special concern. Tricolored blackbirds are small blackbirds, very similar in appearance to the closely related red-winged blackbird (*Agelaius phoeniceus*). They differ from species by the slightly thinner bill, darker red shoulder patches, and broad white (not yellow) median coverts (Sibley 2000).

Tricolored blackbirds are largely endemic to California, and more than 99% of the global population occurs in the state. In any given year, more than 75% of the breeding population can be found in the Central Valley. Small breeding populations also exist at scattered sites in Oregon, Washington, Nevada, and western coastal Baja California (Beedy and Hamilton 1999). This species has suffered dramatic population declines throughout its range due to the loss of protected wetland nesting habitats.

Tricolored blackbirds breed in colonies from several dozen to several thousand breeding pairs. They have three basic requirements for selecting their breeding colony sites: open accessible water; a protected nesting substrate, including either flooded or thorny or spiny vegetation; and a suitable foraging space providing adequate insect prey within a few miles of the nesting colony (Beedy and Hamilton 1999).

Nesting colonies have been reported in freshwater marshes dominated by cattails and bulrushes, or in willows, blackberry bramble, thistles, or nettles. While freshwater marsh was once considered the primary breeding habitat type for tricolored blackbirds, an increasing percentage of tricolored blackbird colonies in the 1980s and 1990s were reported in Himalayan blackberries, and some of the largest recent colonies have been in silage and grain fields (Beedy and Hamilton 1999).

Foraging habitats in all seasons include annual grasslands; wet and dry vernal pools and other seasonal wetlands; agricultural fields (e.g., large tracts of alfalfa with continuous mowing schedules and recently tilled fields); cattle feedlots; and dairies. Tricolored blackbirds also forage occasionally in riparian scrub habitats and along marsh borders (Beedy and Hamilton 1999).

The project site and immediately surrounding area does not support nesting habitat for the tricolored blackbird. However, the species does occur in the general area. The nearest reported nesting colony is in a marshy field southeast of the intersection of County Road 25 and County Road 103, approximately 1 mile south of the project site (Figure 2) (LSA Associates 2009). The project site and the adjacent alkaline sink wetland complex provide suitable foraging habitat for tricolored blackbirds.

Loggerhead Shrike

The loggerhead shrike (*Lanius ludovicianus*) is designated as a state species of special concern. Loggerhead shrike is a permanent resident and winter visitor in foothills and lowlands throughout California, where it is considered a fairly common resident (Small

1994). It is a medium-sized (9 inches), stout, short-winged passerine that is often seen perched on barbed wire fences. The underparts and back are grey, with black tail, wings and facemask (Sibley 2000).

Shrikes prefer open habitats with scattered trees, shrubs, posts, fences, utility lines, or other perches. It nests in small trees and shrubs and forages for small rodents and insects in pastures and agricultural lands.

No shrikes were observed during the survey and no suitable nesting habitat occurs in or near the project site. The species occurs throughout lowland Yolo County and could potentially forage in the grasslands on the project site.

Giant Garter Snake

The giant garter snake (*Thamnophis gigas*) is a state and federally listed threatened species. Giant garter snake is an aquatic species endemic to the Central Valley. Loss or degradation of aquatic habitat resulting from agricultural and urban development has caused dramatic population declines and has resulted in the recognition of only 13 extant populations between Butte County and Fresno County (U.S. Fish and Wildlife Service 1999). The Willow Slough/Yolo Bypass subpopulation, approximately 3 miles southeast of the project area, is the nearest of these to the project area.

Described as among California's most aquatic garter snakes, giant garter snakes are associated with low-gradient streams and valley floor wetlands and marshes, and have adapted successfully to rice agriculture (Hansen 2002). Giant garter snakes occur in sloughs, creeks, and other watercourses including agricultural ditches that support sufficient water, aquatic prey, and emergent vegetation for basking sites. They generally are found in more open habitats and do not typically occur along watercourses that support dense riparian cover. Aquatic habitats are characterized by sufficient water during the snake's active season to supply cover and food such as small fish and amphibians; emergent herbaceous wetland vegetation such as cattails and bulrushes for basking, foraging, and escape cover; upland habitat (e.g., bankside burrows, holes, and crevices for short-term refugia; and high ground upland habitat for cover and refugia during the dormant winter period (Hansen and Brode 1980).

Giant garter snakes are known to occur in the vicinity of Willow Slough and the Yolo Bypass, but none have been reported in the agricultural lands, water conveyance channels, or wetlands in the interior of Yolo County, including in the vicinity of the project site. The nearest reported occurrences are over 3 miles south and southeast of the project area in the Yolo Bypass and in the vicinity of Willow Slough (Yolo Natural Heritage Program species accounts, <http://www.yoloconservationplan.org/species.html>).

Western Pond Turtle

The western pond turtle (*Clemmys marmorata*) is designated as a state species of special concern. The western pond turtle is a moderate sized turtle with drab brown coloring.

The carapace lacks any prominent markings (Holland 1991). In California, the western pond turtle is distributed throughout the state from sea level to mid-elevation Sierra Nevada (Jennings and Hayes 1994).

Western pond turtles are closely associated with permanent water bodies, such as lakes, ponds, slow moving streams, and irrigation canals that include basking sites as down logs or rocks, and that support sufficient aquatic prey. Western pond turtles also require upland habitat that is suitable for building nests, to aestivate, and to overwinter. Suitable upland habitat must have the proper thermal and hydric conditions in which to build nests (Jennings and Hayes 1994). Nests are constructed in sandy banks immediately adjacent to aquatic habitat or if necessary, females will climb hillsides and sometimes move considerable distances to find suitable nest sites. Females deposit their eggs in the nest from March to August depending on local conditions.

Western pond turtles are omnivorous and opportunistic feeders. Their diet includes slow-moving aquatic invertebrates and carrion. Aquatic vegetation may also be consumed, especially by females who have recently laid eggs. Hatchlings and juveniles feed primarily on zooplankton (Jennings and Hayes 1994).

There is no suitable aquatic habitat present in or immediately adjacent to the project site and therefore no potential for this species to occur.

Special-status Bats

Two special status bats potentially occur in the vicinity of the project site, including pallid bat (*Antrozous pallidus*) and Townsend's big-eared bat (*Corynorhinus townsendii townsendii*), both state species of special concern. Pallid bat occurs primarily in shrublands, woodlands, and forested habitats, but also can occur in grasslands and agricultural areas (Pierson and Rainey 1998). Townsends's big-eared bat occurs in a variety of woodland and open habitats, including agricultural areas (Pierson 1998, Fellers and Pierson 2002). Both species roost in mines, caves, rocky crevices, large hollow trees, and occasionally in large open buildings that are usually abandoned or infrequently inhabited.

There is no roosting habitat for either bat species on or immediately adjacent to the project site. Both species could potentially forage above the project site.

Special-status Plants

Six special-status plant species have potential to occur in the vicinity of the project site. Rose mallow (*Hibiscus lasiocarpus*) occurs in marshes and riparian habitats, neither of which occurs on the project site. Therefore, there is no potential for this species to occur.

The remaining five species, palmate-bracted bird's beak (*Cordylanthus palmatus*), brittlescale (*Atriplex depressa*), San Joaquin spearscale (*Atriplex joaquiniana*), alkali milkvetch (*Astragalus tener*), and Heckard's peppergrass (*Lepidium latipes*) occur in alkali

sink habitats. Prior to agricultural and urban conversion the alkali sink natural community was more widespread in the area, occurring throughout much of the area east and southeast of the City. Remaining patches occur primarily between County Road 24 south to Willow Slough and east to County Road 103 (Figure 2). Two of these remnant patches are currently managed as alkali sink preserves, Woodland Regional Park and Alkali Grasslands Preserve, both located near County Road 25 and County Road 102, within 1 mile of the project site. Recent surveys of these sites have detected occurrences of all four species noted above (Dean 2009, Center for Natural Lands Management (<http://www.cnlm.org>)). While the alkali sink wetland complex adjacent to the proposed project site has not been recently surveyed, it is possible that one or more of these species also occurs at that location. In addition, because the project site retains soil characteristics of alkali sink, it is possible that one or more of these species could be present on the project site.

Impacts and Recommendations

Impacts

Annual Grassland Natural Community and General Wildlife. The 0.26 acre project site constitutes a small patch of annual grassland habitat. It does, however, provide value to local wildlife, particularly due to its proximity to the adjacent alkali seasonal wetland natural community. Nonetheless, the very small size of the project site and its immediate proximity to the existing WPCF facility reduces the overall impact on biological resources. The amount of annual grassland that would be removed is negligible and would not substantially affect the distribution or abundance of this natural community nor would it noticeably affect wildlife use of the area. Those species that use grasslands for nesting or foraging would continue to use the adjacent open grasslands and surrounding open lands.

Alkali Sink and Special-Status Plants. While the project site retains soil characteristics of alkali sink, a unique and declining natural community that supports a variety of endemic and rare species, because the site consists of fill from previous construction of the WPCF, it is not considered part of the adjacent remnant alkali sink seasonal wetland. It does, however, function as an adjacent upland grassland and therefore remains integrated into the overall community. In addition, because of the soil composition, the source of the fill, and the proximity to the adjacent alkali sink seasonal wetland, it is possible that the project site supports one or more of the rare plant species found in alkali sink habitats and that are known to occur on nearby alkali sink preserves.

Special-status Wildlife. Several other special-status species may also use the project site for foraging, including Swainson's hawk, white-tailed kite, northern harrier, tricolored blackbird, loggerhead shrike, pallid bat, and Townsend's big-eared bat. Construction of the blower building would remove habitat for prey species, including microtine and other rodents, black-tailed jackrabbits, common reptiles, and insects; however, the negligible amount of annual grassland habitat (0.26 acre) that would be removed by the project

would not substantially affect the distribution and abundance of these species or the special-status wildlife that prey upon them.

One special-status species, the burrowing owl, nests within the annual grassland community immediately adjacent to the project site. Construction during the breeding season, which extends between approximately February 1 and August 31, can cause this nesting pair to abandon its nest and lead to the mortality of young and displacement of the nesting pair.

Recommendations

1. Special-status Plants. While unlikely, there is some potential for occurrence of one or more of the special-status plants noted above. To ensure avoidance of special-status plant populations, a survey should be conducted during the appropriate flowering season when the species are most identifiable. The flowering periods for these species are indicated in Table 2. If special-status plant populations are found onsite, avoid impacts to individual plants by developing and implementing a plan for relocating plants to a protected and approved site.

Table 2. Flowering periods of potentially occurring special-status plants.

Species	Flowering Period
palmate-bracted bird's beak <i>Cordylanthus palmatus</i>	May through October
brittlescale <i>Atriplex depressa</i>	April through October
San Joaquin spearscale <i>Atriplex joaquiniana</i>	April through October
alkali milk-vetch <i>Astragalus tener</i> var. <i>tener</i>	March through June
Heckard's pepper-grass <i>Lepidium latipes</i> var. <i>heckardii</i>	March through May

2. Burrowing Owl. To avoid impacts to nesting burrowing owls, postpone construction activities until after burrowing owl young have fledged, which should occur sometime in July. Prior to fledging, the burrowing owl nest is subject to disturbance and abandonment from ground disturbance activities near the nest. Once young are fledged, ground disturbance activities should be sufficiently distant (greater than 200 feet) from the nesting burrow to avoid disrupting owl movements and behavior, including ongoing parental care of the fledglings. The owls, who may continue to occupy the nesting burrow through at least the end of August, will continue to have full access to the open seasonal wetlands and adjacent grasslands south and west of the project site, and the levee and open agricultural lands to the south and east.

As a further precaution, orange barrier fencing should be installed along the eastern edge of the ground disturbance area to provide a visual buffer between the occupied burrow

and the construction area. This fencing should be installed at least one month prior to the beginning of construction to allow the owls to habituate to the visual barrier before construction activity begins. All other activities should be avoided until fledging occurs.

3. Adjacent Wetlands. All necessary precautions, including implementation of standard best management practices, should be employed to avoid runoff or fill material into the adjacent alkali seasonal wetland community. This may include establishing a well-defined work area, creating staging area and travel routes such that the seasonal wetland is not directly affected, and installation of sediment fencing between work areas and the seasonal wetland.

4. Swainson's Hawk. While the loss of approximately 0.26 acres of annual grassland foraging habitat does not represent a significant loss of habitat for the state-threatened Swainson's hawk, the project may be subject to the Yolo County Swainson's Hawk Interim Mitigation Program. This program is managed through the Joint Powers Authority of the Yolo County Natural Heritage Program, of which the City of Woodland is a member. If the proposed project is determined to be subject to this mitigation program, the standard mitigation procedure for projects that impact less than 40 acres is the payment of the current program per acre fee.

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APPENDIX C

Cultural Resources

December 20, 2013

8074

Mr. Mark Cocke
City of Woodland
300 First Street
Woodland, California 95695

***Subject: Negative Cultural Resources Letter Report for the City of Woodland
Pollution Control Facility SRF Project, Yolo County, California***

Dear Mr. Cocke:

This letter documents the cultural resources inventory conducted by Dudek for the proposed City of Woodland Pollution Control Facility SRF Project (project), which consists of two utility improvement projects: several related improvements to the current Water Pollution Treatment Facility (WPCF) and the repair or replacement of various water and wastewater pipelines throughout the city. The proposed WPCF improvements component is located southeast of the City of Woodland just south of County Road 24, approximately 0.75 miles south of Interstate 5, 7 miles north of Interstate 80 and 1.75 miles east of Highway 113 (Figure 1). The proposed area of potential effect (APE) consists of a 256 acre parcel which is comprised of the current WPCF and agricultural lands. The pipeline repair and replacement component of the project does not yet have specific project locations. The current cultural resource investigation primarily addresses the WPCF portion of the project because the locations of the pipeline replacement and repair are not yet known. However, cultural resources studies for the specific pipeline locations are not necessary because all pipelines subject to repair or replacement are buried in engineered backfill within existing roads or utility easements, furthermore any potential pipeline repair locations are addressed by the cultural resource record search in the City General Plan from 1996, making additional record searches unnecessary. The current cultural resources investigation was conducted by Dudek in accordance with the standards and guidelines defined under the California Environmental Quality Act (CEQA) and included records searches with the Northwest Information Center and Native American Heritage Commission, as well as an intensive pedestrian survey of the WPCF facility project boundary. No cultural resources were observed within project area.

Mr. Mark Cocke

Subject: Negative Cultural Resources Letter Report for the City of Woodland Water Pollution Control SRF Project, Yolo County, California

PROJECT DESCRIPTION AND LOCATION

Water Pollution Control Facility

The WPCF portion of the project is located along the south side of County Road 24, approximately 0.5 miles east of County Road 102 and 0.2 miles north of County Road 25 (Figure 2). The proposed project APE covers approximately 256 acres consisting of the current WPCF and agricultural lands. The WPCF project proposes modification of the four existing oxidation ditches, construction of a blower building on a 0.26 acre pad to the south of the existing facility fence line, soil cement treatment of two of the twelve existing settling ponds, and the construction and installation of approximately 2,700 linear feet of new pipe and eight new manholes.

Water/Wastewater Pipeline Repair

The City proposes to repair and replace various pipelines for both the municipal water system and the wastewater collection system. The municipal water system consists of 19 interconnected wells, 235 miles of water main lines, and more than 14,200 service connections. The work would consist of repair/replacement of existing water mains and service laterals. The exact location of these replacements has not yet been determined; however, all work would be within existing City right of way: streets, alleys, and public utilities easements (PUE).

REGULATORY FRAMEWORK

CEQA requires that all private and public activities not specifically exempted be evaluated for the potential to impact the environment, including effects to historical resources. Historical resources are recognized as part of the environment under CEQA. It defines historical resources as “any object, building, structure, site, area, or place, which is historically significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California” (Division I, Public Resources Code, Section 5021.1(b)).

Lead agencies have a responsibility to evaluate historical resources against the California Register criteria prior to making a finding as to a proposed project’s impacts to historical resources. Mitigation of adverse impacts is required if the proposed project will cause substantial adverse change. Substantial adverse change includes demolition, destruction, relocation, or alteration such that the significance of an historical resource would be impaired. While demolition and destruction are fairly obvious significant impacts, it is more difficult to assess when change, alteration, or relocation crosses the threshold of substantial adverse change. The CEQA Guidelines provide that a project that demolishes or alters those physical characteristics

Mr. Mark Cocke

Subject: Negative Cultural Resources Letter Report for the City of Woodland Water Pollution Control SRF Project, Yolo County, California

of an historical resource that convey its historical significance (i.e., its character-defining features) can be considered to materially impair the resource's significance.

The California Register is used in the consideration of historic resources relative to significance for purposes of CEQA. The California Register includes resources listed in, or formally determined eligible for some California State Landmarks and Points of Historical Interest. Properties of local significance that have been designated under a local preservation ordinance (local landmarks or landmark districts), or that have been identified in a local historical resources inventory may be eligible for listing in the California Register and are presumed to be significant resources for purposes of CEQA unless a preponderance of evidence indicates otherwise.

Generally, a resource shall be considered by the lead agency to be "historically significant" if the resource meets the criteria for listing on the California Register of Historical Resources (Pub. Res. Code SS5024.1, Title 14 CCR, Section 4852) consisting of the following:

1. It is associated with events that have made a significant contribution to the broad patterns of local or regional history, or the cultural heritage of California or the United States; or
2. It is associated with the lives of persons important to local, California, or national history; or
3. It embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of a master, or possesses high artistic values; or
4. It has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation.

METHODS

Records Search

Staff of the Northwest Information Center (NWIC) was contacted on November 18, 2013, requesting a record search for WPCF APE and a one-quarter mile radius surrounding the project area. One previous cultural resource report (S-2952) addresses a portion of the APE and three additional reports (S-2951, S-26861, and S-34832) address portions of the one-quarter mile record search boundary (Table 1). No previously recorded cultural resources were present within the proposed APE or the record search buffer.

Mr. Mark Cocke

Subject: Negative Cultural Resources Letter Report for the City of Woodland Water Pollution Control SRF Project, Yolo County, California

Table 1
Previous Cultural Resource Reports

S-Number	Year	Title	Author
S-002951	1979	Cultural Resource Assessment of the Woodland Industrial Wastewater Facilities, Yolo County, California	Ann S. Peak and Associates
S-002952	1976	Cultural Resource Assessment of the City of Woodland Wastewater Treatment System Expansion Project	Robert A. Gerry
S-026861	2003	Spring Lake Specific Plan: Water Detention Basins and Pipelines Proposal, City of Woodland, Yolo County, California: Cultural Resource Surveys and Assessments	Eleanor H. Derr
S-034832	2008	Cultural Resources Assessment of the Proposed Woodland Gateway Center Phase II, City of Woodland, Yolo County, California (Job #08-015)	Peak & Associates, Inc.

The Native American Heritage Commission (NAHC) was contacted by Dudek on November 18, 2013, to request a search of the Sacred Lands File for cultural resources in the project area. NAHC records indicated no previously identified sacred lands or areas of cultural importance within the project area. On, December 6, 2013, letters were sent to Native American Tribes and individuals identified by the NAHC, requesting information they may have relating to cultural resources that may be impacted by the project. To date, no responses have been received.

Intensive Pedestrian Survey

The intensive pedestrian survey was conducted by Dudek archaeologist Patrick Hadel on December 3, 2013, using standard archaeological procedures and techniques that meet the Secretary of Interior's standards and guidelines for cultural resources inventory. Approximately 75% of the project area was inaccessible due to standing water in the retention ponds. Accessible portions of the project area included the two central retention ponds on the east side of the facility, undeveloped area around the perimeter of the facility and the area between retention ponds. These areas were surveyed utilizing parallel transects spaced no more than 10 meters apart. The project area is heavily disturbed by construction of the existing facility, and the surrounding areas have been plowed or otherwise disturbed for agricultural activities. No artifacts or features were identified during this survey.

Mr. Mark Cocke

Subject: *Negative Cultural Resources Letter Report for the City of Woodland Water Pollution Control SRF Project, Yolo County, California*

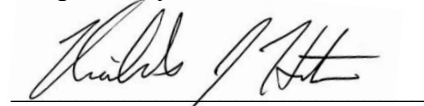
SUMMARY AND MANAGEMENT CONSIDERATIONS

Archaeological Sensitivity and Mitigation Measures

Dudek's cultural resources investigation of the project area indicates that there is very low potential for the inadvertent discovery of cultural resources during ground breaking activities. No cultural resources were observed during intensive pedestrian survey of the WPCF. Based on these observations, it is recommended that cultural monitoring is unnecessary during future ground disturbing activities associated with the current proposed project. Cultural monitoring may be required during the water/wastewater pipeline replacement/repair portion of the project in the event that any of the proposed locations fall within culturally sensitive areas as identified in the 1996 City General Plan. If any inadvertent discoveries of cultural resources are encountered during any portion of project implementation, a qualified archaeologist should be consulted to assess and evaluate the significance of the discovery under CEQA, and to propose treatment measures, if necessary.

If you have any questions about this report, please respond to me or Micah Hale at Dudek.

Respectfully Submitted,



Nicholas Hanten
Archaeologist

cc: Micah Hale, Dudek
Brian Grattidge, Dudek

Att: Figure 1. Regional Map
Figure 2. Project APE Map
Confidential Appendix A. Record Search Results
Confidential Appendix B. NAHC Consultation

NATIONAL ARCHAEOLOGICAL DATABASE (NADB) INFORMATION

Authors: Nicholas Hanten and Micah Hale, PhD, RPA

Firm: Dudek

Project Proponent: City of Woodland

Report Date: December 2013

Report Title: Negative Cultural Resources Survey Report for the City of Woodland Water Pollution Control SRF Project, Yolo County, California

Type of Study: Archaeological Inventory

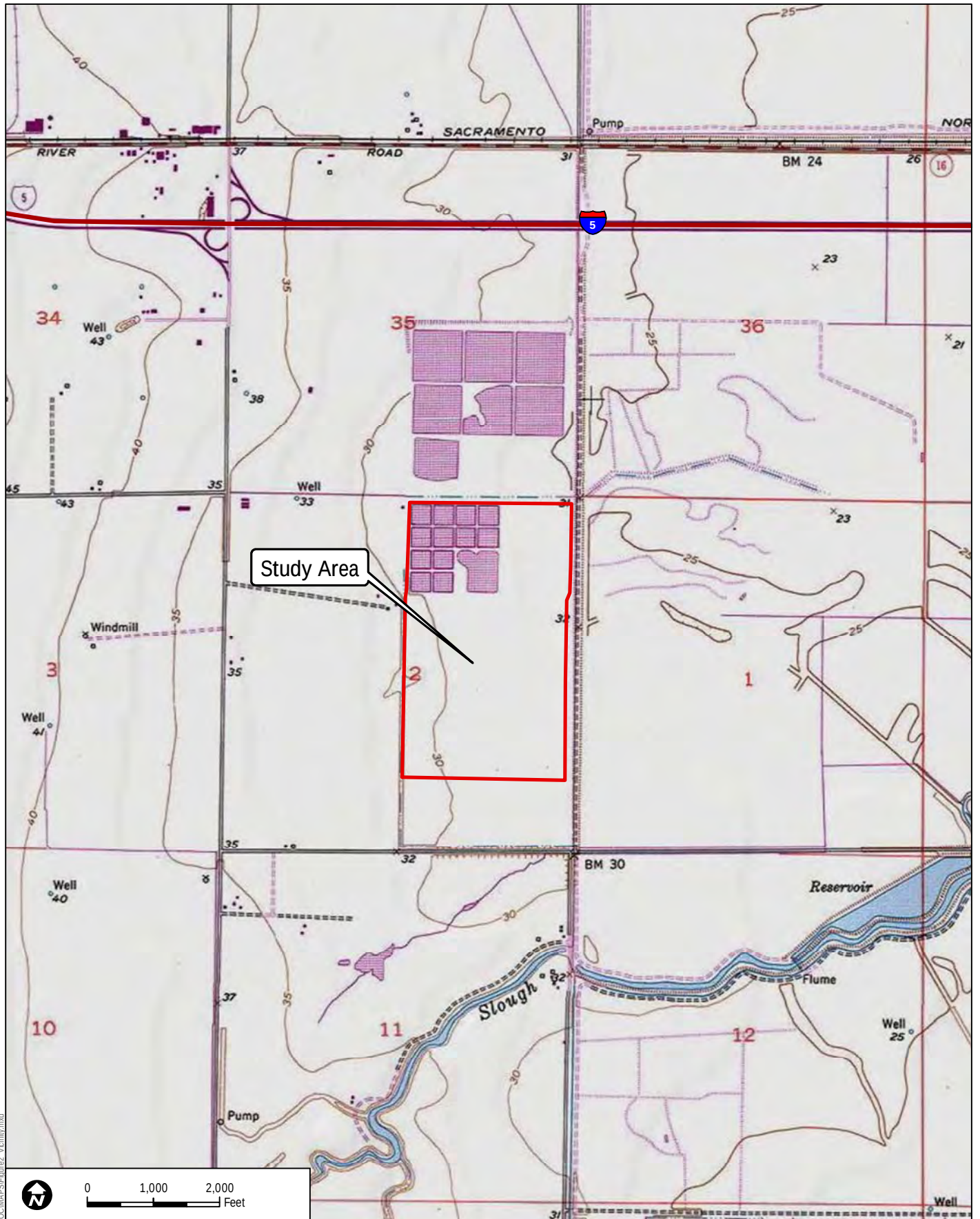
Resources: None

USGS Quads: Grays Bend, California, Township 9 North, Range 2 East, Section 2

Acreage: 256

Permit Numbers: Planned Development Permit (Numbers not available at this time)

Keywords: Pedestrian Survey, Negative;



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DUDEK

8074

SOURCE: USGS 7.5 Minute Series Topographic Maps

FIGURE 2
Vicinity Map

WOODLAND POLLUTION CONTROL FACILITY SRF

APPENDIX A

Records Search Results (Confidential)

APPENDIX B

NAHC Consultation (Confidential)

APPENDIX D
State Revolving Fund Environmental Application

ENVIRONMENTAL PACKAGE

Applicant (Entity) Name: City of Woodland	
Project Title: WPCF Secondary Treatment Improvements	
Contact Person: Mark Cocke	Phone: (530) 661-5898

I. CEQA STATUS

Please check the **one** box that describes the project in this application.

- ☐ The CEQA process has not yet started for this project
 ☒ The CEQA process is underway for this project *
 ☐ The CEQA process is complete for this project (complete Question 2 below)
 ☐ The CEQA process was completed for this project more than 5 years prior to anticipated State Water Board agreement execution date ** (complete Question 2 below)

* A draft of the CEQA document should be provided to the Division for review and comment. If available, also provide to the Division copies of any substantiating federal cross-cutter information (i.e., USFWS species list/biological assessment, cultural resources report, air quality analysis data, flood map, etc.). This will enable the Division to better understand the environmental impacts, and provide more meaningful comments on the draft CEQA document before it is sent to the State Clearinghouse.

** If the CEQA document was prepared more than five years prior to the anticipated assistance agreement execution date, please provide an updated CEQA document (subsequent, supplemental or addendum) that evaluates the current environmental status of the project.

II. CEQA DOCUMENTS*** (Complete this section only if the CEQA process has been completed for this project)

Please check all box(es) that describe this application and submit the required attachments for the applicable section(s).

- ☐ Project is covered under a CEQA Categorical or Statutory Exemption (complete Section A below and attach documents)
 ☐ Project is covered under a Negative Declaration (complete Section B below and attach documents)
 ☒ Project is covered under a Mitigated Negative Declaration (complete Section C below and attach documents)
 ☐ Project is covered under an Environmental Impact Report (EIR) (complete Section D below and attach documents)

*** If a Joint CEQA/NEPA document (EIR/Environmental Assessment or EIR/Environmental Impact Statement) is prepared for the project, submit the applicable Record of Decision and/or Finding of No Significant Impact.

Required Attachments	Section A	Section B	Section C	Section D
E1- EVALUATION FORM FOR ENVIRONMENTAL REVIEW AND FEDERAL COORDINATION				
E2- DRAFT AND FINAL INITIAL STUDY/NEGATIVE DECLARATION (IS/ND)				
E3- DRAFT AND FINAL INITIAL STUDY/MITIGATED NEGATIVE DECLARATION (IS/MND)				
E4- DRAFT AND FINAL EIR				
E5- COMMENTS AND RESPONSES				
E6- STATEMENT OF OVERRIDING CONSIDERATION (If Applicable)				
E7- MITIGATION MONITORING AND REPORTING PLAN/PROGRAM (MMRP)				
E8- RESOLUTION APPROVING THE CEQA DOCUMENTS				
E9- NOTICE OF EXEMPTION				
E10- NOTICE OF DETERMINATION				

FOR STATE USE ONLY

CWSRF Project #	
Project Manager	
Date Received	

Evaluation Form for Environmental Review and Federal Coordination

Applicant Name: City of Woodland
Project Title: WPCF Secondary Treatment Improvements

1. Federal Endangered Species Act (ESA):

Does the project involve any direct effects from construction activities, or indirect effects such as growth inducement that may affect federally listed threatened or endangered species or their critical habitat that are known, or have a potential, to occur on-site, in the surrounding area, or in the service area?

- **Required documents:** Attach project-level biological surveys, evaluations analyzing the project's direct and indirect effects on special-status species, and an up-to-date species list (from the United States Fish and Wildlife Service and the California Natural Diversity Database) for the project area.

☒ **No** - Discuss why the project will not affect any federally listed special status species:

As discussed in the biological resources assessment (Estep 2013, Appendix B of the Initial Study), the likelihood of presence on the project site of federally listed special status species is unlikely.

☐ **Yes** - Provide information on federally listed species that could potentially be affected by this project and any proposed avoidance and compensation measures so that the State Water Board can initiate informal/formal consultation with the applicable federally designated agency. Document any previous ESA consultations that may have occurred for the project. Include any comments below.

2. Magnuson-Stevens Fishery Conservation and Management Act:

Does the project involve any direct effects from construction activities, or indirect effects such as growth inducement that may adversely affect essential fish habitat?

☒ **No** – Discuss why the project will not affect essential fish habitat:

As discussed in the biological resources assessment (Estep 2013), there are no surface waters, and no fish habitat, on or adjacent to the project site.

☐ **Yes** - Provide information on essential fish habitat that could potentially be affected by this project and any proposed avoidance and compensation measures. Document any consultations with the National Marine Fisheries Service that may have occurred for the project. Include any comments below.

3. National Historic Preservation Act:

Identify the area of potential effects (APE), including construction, staging areas, and depth of any excavation. (Note: the APE is three dimensional and includes all areas that may be affected by the project, including the surface area and extending below ground to the depth of any project excavations).

- **Required documents:** Attach a copy of Section 106 report prepared by a qualified professional, current records search with maps showing all sites and surveys drawn in relation to the project area, records of Native American consultation, and a consultation letter for the State Water Board to use to consult with the State Historic Preservation Officer.

The Cultural Resources Report (Dudek 2013) is attached (Appendix C of the Initial Study). The records search, site survey, and Native American consultation indicate that no resources covered under the National Historic Preservation Act would be affected by the proposed project.

4. **Federal Clean Air Act:**

Identify Air Basin Name: Sacramento Valley Air Basin

Name of the Local Air District for Project Area: Yolo-Solano Air Quality Mangement District

Is the project subject to a State Implementation Plan (SIP) conformity determination?

- ☐ **No** - The project is in an attainment or unclassified area for all federal criteria pollutants.
- ☒ **Yes** - The project is in a nonattainment area or attainment area subject to maintenance plans for a federal criteria pollutant. Include information to indicate the nonattainment designation (e.g. moderate, serious, severe, or extreme), if applicable. If estimated emissions (below) are above the federal de minimis levels, but the project is sized to meet only the needs of current population projections that are used in the approved SIP for air quality, then quantitatively indicate how the proposed capacity increase was calculated using population projections.

- If you checked "Yes" above, provide the estimated project construction and operational air emissions (in tons per year) in the chart below, and attach supporting calculations.
- Also, attach any air quality studies that may have been done for the project.

Pollutant	Federal Status (Attainment, Nonattainment, Maintenance, or Unclassified)	Nonattainment Rates (i.e., moderate, serious, severe, or extreme)	Threshold of Significance for Project Air Basin (if applicable)	Construction Emissions (Tons/Year)	Operation Emissions (Tons/Year)
Ozone (O ₃)	Nonattainment	Severe 15			
Carbon Monoxide (CO)	Unclassified/Attainment		Violation of a state ambient standard	1.92 tons/year	0
Oxides of Nitrogen (NO _x)	Unclassified/Attainment		10 tons/year	3.38 tons/year	0
Reactive Organic Gases (ROG)			10 tons/year	0.32 tons/year	0
Volatile Organic Compounds (VOC)					
Lead (Pb)	Unclassified/Attainment				
Particulate Matter less than 2.5 microns in diameter (PM _{2.5})	Nonattainment			0.36 tons/year	0
Particulate Matter less than 10 microns in diameter (PM ₁₀)	Unclassified		80 lbs/day	2.06 tons/year 31 lbs - max. day	0
Sulfur Dioxide (SO ₂)	Unclassified			0.04 tons/year	0

5. **Coastal Zone Management Act:**

Is any portion of the project site located within the coastal zone?

☒ **No** – The project is not within the coastal zone.

☐ **Yes** – Describe the project location with respect to coastal areas and the status of the coastal zone permit, and provide a copy of the coastal zone permit or coastal exemption:

6. **Coastal Barriers Resources Act:**

Will the project impact or be located within or near the Coastal Barrier Resources System or its adjacent wetlands, marshes, estuaries, inlets, and near-shore waters? Note that since there is currently no Coastal Barrier Resources System in California, projects located in California are not expected to impact the Coastal Barrier Resources System in other states. If there is a special circumstance in which the project may impact a Coastal Barrier Resource System, indicate your reasoning below.

☒ **No** - The project will not affect or be located within or near the Coastal Barrier Resources System or its adjacent wetlands, marshes, estuaries, inlets, and near-shore waters.

☐ **Yes** - Describe the project location with respect to the Coastal Barrier Resources System, and the status of any consultation with the appropriate Coastal Zone management agency and the United States Fish and Wildlife Service:

7. **Farmland Protection Policy Act:**

Is any portion of the project located on important farmland?

☒ **No** - The project will not affect farmland.

☐ **Yes** - Include information on the acreage that would be converted from important farmland to other uses. Indicate if any portion of the project boundaries is under a Williamson Act Contract and specify the amount of acreage affected:

8. Flood Plain Management:

Is any portion of the project located within a 100-year floodplain as depicted on a floodplain map or otherwise designated by the Federal Emergency Management Agency?

- **Required documents:** *Attach a floodplain map.*

☐ **No** - Provide a description of the project location with respect to streams and potential floodplains:

☒ **Yes** - Describe the floodplain, and include a floodplains/wetlands assessment. Describe any measures and/or project design modifications that would minimize or avoid flood damage by the project:

See Section 3.9 of the Initial Study. WPCF improvements will be built above base flood elevations.

9. Migratory Bird Treaty Act:

Will the project affect protected migratory birds that are known, or have a potential, to occur on-site, in the surrounding area, or in the service area?

☐ **No** - Provide an explanation below.

☒ **Yes** - Discuss the impacts (such as noise and vibration impacts, modification of habitat) to migratory birds that may be directly or indirectly affected by the project and mitigation measures to reduce or eliminate these impacts. Include a list of all migratory birds that could occur where the project is located:

White-tailed kite, northern harrier, Swainson's hawk, burrowing owl, loggerhead shrike, and tricolored blackbird have the potential to use the project site as foraging habitat (Estep 2013). However, the size and location of this foraging habitat, and the availability of nearby habitat, would not result in a significant adverse effect. Burrowing owl nesting habitat has been identified near the project site. Mitigation measures have been incorporated to reduce or eliminate impacts to this species (see Initial Study Section 3.4).

10. Protection of Wetlands:

Does any portion of the project boundaries contain areas that should be evaluated for wetland delineation or require a permit from the United States Army Corps of Engineers?

☒ **No** - Provide the basis for such a determination:

See biological resources assessment (Estep 2013). Measures have been incorporated into the project to avoid any indirect effects to off-site wetlands (see Section 3.4 of the Initial Study).

- ☐ **Yes** - Describe the affect to wetlands, potential wetland areas, and other surface waters, and the avoidance, minimization, and mitigation measures to reduce such impacts. Provide the status of the permit and information on permit requirements:

11. Wild and Scenic Rivers Act:

Identify watershed where the project is located: Lower Putah Creek

Is any portion of the project located within a wild and scenic river?

- ☒ **No** - The project will not affect a wild and scenic river.
- ☐ **Yes** - Identify the wild and scenic river watershed and project location relative to the affected wild and scenic river:

12. Safe Drinking Water Act, Sole Source Aquifer Protection:

Is the project located in an area designated by the United States Environmental Protection Agency, Region 9, as a Sole Source Aquifer?

- ☒ **No** - The project is not within the boundaries of a sole source aquifer.
- ☐ **Yes** - Identify the sole source aquifer (e.g., Santa Margarita Aquifer, Scott's Valley, the Fresno County Aquifer, the Campo/Cottonwood Creek Aquifer or the Ocotillo-Coyote Wells Aquifer) that will be affected:

13. Environmental Justice:

Does the project involve an activity that is likely to be of particular interest to or have particular impact upon minority, low-income, or indigenous populations, or tribes?

- ☒ **No** - Selecting "No" means that this action is not likely to be of any particular interest to or have an effect on these populations or tribes. Explain.

The project would not affect residential receptors, or property owned or used by minority, low-income, or indigenous populations. The proposed project would improve public utilities service to the entire service area of the City of Woodland Utilities Division.

☐ **Yes** - If you answer yes, please check at least one of the boxes and provide a brief explanation below:

- ☐ The project is likely to affect the health of these populations.
- ☐ The project is likely to affect the environmental conditions of these populations.
- ☐ The project is likely to present an opportunity to address an existing disproportionate impact of these populations.
- ☐ The project is likely to result in the collection of information or data that could be used to assess potential impacts on the health or environmental conditions of these populations.
- ☐ The project is likely to affect the availability of information to these populations.
- ☐ Other reasons (please describe):

Briefly explain the answer:

Central Valley Regional Water Quality Control Board

31 January 2014

Mark Cocke
City of Woodland
300 First Street
Woodland, CA 95695

CERTIFIED MAIL
7013 1710 0002 3644 0618

COMMENTS TO REQUEST FOR REVIEW FOR THE MITIGATED NEGATIVE DECLARATION, 2014 WPCF IMPROVEMENTS AND WATER/ WASTEWATER LINE REPAIRS PROJECT, SCH NO. 2014012009, YOLO COUNTY

Pursuant to the State Clearinghouse's 6 January 2014 request, the Central Valley Regional Water Quality Control Board (Central Valley Water Board) has reviewed the *Request for Review for the Mitigated Negative Declaration* for the 2014 WPCF Improvements and Water/Wastewater Line Repairs Project, located in Yolo County.

Our agency is delegated with the responsibility of protecting the quality of surface and groundwaters of the state; therefore our comments will address concerns surrounding those issues.

Construction Storm Water General Permit

Dischargers whose project disturb one or more acres of soil or where projects disturb less than one acre but are part of a larger common plan of development that in total disturbs one or more acres, are required to obtain coverage under the General Permit for Storm Water Discharges Associated with Construction Activities (Construction General Permit), Construction General Permit Order No. 2009-009-DWQ. Construction activity subject to this permit includes clearing, grading, grubbing, disturbances to the ground, such as stockpiling, or excavation, but does not include regular maintenance activities performed to restore the original line, grade, or capacity of the facility. The Construction General Permit requires the development and implementation of a Storm Water Pollution Prevention Plan (SWPPP).

For more information on the Construction General Permit, visit the State Water Resources Control Board website at:
http://www.waterboards.ca.gov/water_issues/programs/stormwater/constpermits.shtml.

Phase I and II Municipal Separate Storm Sewer System (MS4) Permits¹

The Phase I and II MS4 permits require the Permittees reduce pollutants and runoff flows from new development and redevelopment using Best Management Practices (BMPs) to the maximum extent practicable (MEP). MS4 Permittees have their own development standards, also known as Low Impact Development (LID)/post-construction standards that include a hydromodification component. The MS4 permits also require specific design concepts for LID/post-construction BMPs in the early stages of a project during the entitlement and CEQA process and the development plan review process.

For more information on which Phase I MS4 Permit this project applies to, visit the Central Valley Water Board website at:

http://www.waterboards.ca.gov/centralvalley/water_issues/storm_water/municipal_permits/.

For more information on the Phase II MS4 permit and who it applies to, visit the State Water Resources Control Board at:

http://www.waterboards.ca.gov/water_issues/programs/stormwater/phase_ii_municipal.shtml

Industrial Storm Water General Permit

Storm water discharges associated with industrial sites must comply with the regulations contained in the Industrial Storm Water General Permit Order No. 97-03-DWQ.

For more information on the Industrial Storm Water General Permit, visit the Central Valley Water Board website at:

http://www.waterboards.ca.gov/centralvalley/water_issues/storm_water/industrial_general_permits/index.shtml.

Clean Water Act Section 404 Permit

If the project will involve the discharge of dredged or fill material in navigable waters or wetlands, a permit pursuant to Section 404 of the Clean Water Act may be needed from the United States Army Corps of Engineers (USACOE). If a Section 404 permit is required by the USACOE, the Central Valley Water Board will review the permit application to ensure that discharge will not violate water quality standards. If the project requires surface water drainage realignment, the applicant is advised to contact the Department of Fish and Game for information on Streambed Alteration Permit requirements.

If you have any questions regarding the Clean Water Act Section 404 permits, please contact the Regulatory Division of the Sacramento District of USACOE at (916) 557-5250.

¹ Municipal Permits = The Phase I Municipal Separate Storm Water System (MS4) Permit covers medium sized Municipalities (serving between 100,000 and 250,000 people) and large sized municipalities (serving over 250,000 people). The Phase II MS4 provides coverage for small municipalities, including non-traditional Small MS4s, which include military bases, public campuses, prisons and hospitals.

Clean Water Act Section 401 Permit – Water Quality Certification

If an USACOE permit, or any other federal permit, is required for this project due to the disturbance of waters of the United States (such as streams and wetlands), then a Water Quality Certification must be obtained from the Central Valley Water Board prior to initiation of project activities. There are no waivers for 401 Water Quality Certifications.

Waste Discharge Requirements

If USACOE determines that only non-jurisdictional waters of the State (i.e., “non-federal” waters of the State) are present in the proposed project area, the proposed project will require a Waste Discharge Requirement (WDR) permit to be issued by Central Valley Water Board. Under the California Porter-Cologne Water Quality Control Act, discharges to all waters of the State, including all wetlands and other waters of the State including, but not limited to, isolated wetlands, are subject to State regulation.

For more information on the Water Quality Certification and WDR processes, visit the Central Valley Water Board website at:

http://www.waterboards.ca.gov/centralvalley/help/business_help/permit2.shtml.

Low or Limited Threat General NPDES Permit

If the proposed project includes construction dewatering and it is necessary to discharge the groundwater to waters of the United States, the proposed project will require coverage under a National Pollutant Discharge Elimination System (NPDES) permit. Dewatering discharges are typically considered a low or limited threat to water quality and may be covered under the General Order for *Dewatering and Other Low Threat Discharges to Surface Waters* (Low Threat General Order) or the General Order for *Limited Threat Discharges of Treated/Untreated Groundwater from Cleanup Sites, Wastewater from Superchlorination Projects, and Other Limited Threat Wastewaters to Surface Water* (Limited Threat General Order). A complete application must be submitted to the Central Valley Water Board to obtain coverage under these General NPDES permits.

For more information regarding the Low Threat General Order and the application process, visit the Central Valley Water Board website at:

http://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/general_orders/r5-2013-0074.pdf

For more information regarding the Limited Threat General Order and the application process, visit the Central Valley Water Board website at:

http://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/general_orders/r5-2013-0073.pdf

If you have questions regarding these comments, please contact me at (916) 464-4684 or tcleak@waterboards.ca.gov.



Trevor Cleak
Environmental Scientist

cc: State Clearinghouse Unit, Governor's Office of Planning and Research, Sacramento

DEPARTMENT OF TRANSPORTATION

DISTRICT 3 – SACRAMENTO AREA OFFICE
2379 GATEWAY OAKS DRIVE, STE 150 - MS 19
SACRAMENTO, CA 95833
PHONE (916) 274-0635
FAX (916) 263-1796
TTY 711



*Flex your power!
Be energy efficient!*

February 4, 2014

032014-YOL-0001
03-YOL-5/ PM 4.960
SCH#2014012009

Mr. Mark Cocke
City of Woodland
300 First Street
Woodland, CA 95695

2014 Water Pollution Control Facility (WPCF) Improvements and Water / Wastewater Line Repairs – Mitigated Negative Declaration (MND)

Dear Mr. Cocke:

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the (WPCF) Improvements and Water / Wastewater Line Repairs Project. The MND proposes two utility projects. The first project is to improve the City of Woodland's WPCF to result in a more efficient wastewater treatment process. The second project consists of various repairs, including replacement of existing water and wastewater pipelines throughout the City. The existing Woodland WPCF is located 1 mile south of Interstate (I-5) and 2 miles east of State Route (SR 113) in the city of Woodland. The following comments are based on the MND.

Encroachment Permit

Please be advised that any work or traffic control that would encroach onto State Right of Way (ROW) requires an encroachment permit that is issued by Caltrans. To apply, a completed encroachment permit application, environmental documentation, and five sets of plans clearly indicating State ROW must be submitted to the address below.

Mr. Tim Greutert
California Department of Transportation
District 3, Office of Permits
703 B Street, Marysville, CA 95901

Traffic-related mitigation measures should be incorporated into the construction plans prior to the encroachment permit process. See the website at the following URL for more information:
<http://www.dot.ca.gov/hq/traffops/developserv/permits/> .

Construction Traffic Management

In the fourth paragraph on page 59 of the draft MND it states that the most traffic-intensive phase of the construction period will require up to 70 truck trips. Therefore, we recommend that truck and heavy equipment traffic be avoided on the State Highway System during commute hours (Monday – Friday 7:00 a.m. to 9:00 a.m., and 4:00 p.m. – 6:00 p.m.).

Please provide our office with copies of any further actions regarding this project. We would appreciate the opportunity to review and comment on any changes related to this development.

If you have any questions regarding these comments or require additional information, please contact Arthur Murray, Intergovernmental Review Coordinator at (916) 274-0616 or by email at: Arthur.Murray@dot.ca.gov.

Sincerely,



TRACEY FROST, Interim Chief
Office of Transportation Planning – South

c: Scott Morgan, State Clearinghouse



February 5, 2014

City of Woodland Public Works Dept.
300 First Street
Woodland, CA 95695
Attn: Mr. Mark Cocke

Re: WPCF Improvements and Water/Wastewater Line Repairs

Dear Mr. Cocke:

The Yolo Solano Air Quality Management District (District) has reviewed the environmental document for the above project (project) and is submitting several comments at this time. We appreciate the opportunity to review the draft initial study and mitigated negative declaration.

The District is in general agreement with the conclusions of the initial study/mitigated negative declaration which estimate that emissions from project construction and operations will not exceed the District's thresholds for ROG, NOx and/or PM10. Consequently, no mitigation for the reduction of criteria pollutants would be required. The District also agrees with the estimates that annual greenhouse gas (GHG) emissions from construction will be 255 MT CO2E for 2014 and 496 MT CO2E for 2015. These will be temporary emissions, occurring only for the duration of the construction period. Operational GHG's are estimated to decrease by 360 MT CO2E per year below existing baseline emissions due to increased efficiencies as a result of the technology upgrades at the WPCF. While the District has not adopted any thresholds of significance for GHG, the project's GHG contribution is below the applicable thresholds adopted by the Bay Area Air Quality Management District, which have been used by lead agencies in Yolo County in the past in lieu of District thresholds to assess GHG impacts from new projects.

The Initial Study states that the City of Woodland anticipates the need to replace existing water and sewer mains and service laterals throughout the City. These improvements would be made to the existing water distribution and wastewater collection system, which currently has 176 miles of sewer main, 5 miles of pressurized mains, and 2 sewer lift pump stations. The municipal water system consists of 19 interconnected wells, 235 miles of water main lines, and more than 14,200 service connections. Similar to the new wastewater pipeline construction at the WPCF, it is anticipated that a construction contractor would replace approximately 100 linear feet of pipe per day. For the purposes of annual emissions modeling, it was conservatively assumed that construction of replacement pipeline would commence in January 2014 and continue for 250 working days, ending in December 2014. Actual pipeline replacement may occur over a shorter period or in future years. The document describes the construction equipment that will be used during the course of the construction period. A concrete/industrial saw was assumed in the event that saw-cutting of existing

pavement to prepare for pipeline removal and/or installation would be necessary. Similar to new pipeline installation, citywide wastewater pipeline replacement is anticipated to require the use of an excavator for trenching activities and a roller to compact the excavated and filled material. A tractor/loader/backhoe was also assumed to be used for excavation, fill, and other various construction activities. The District believes that the construction equipment list is accurate for the activities that are proposed to occur during project construction.

Much of the existing water and sewer mains and service laterals throughout the City are in close proximity to a variety of land uses, including residential, schools, hospitals, neighborhood commercial, recreation and other institutional uses. As diesel construction equipment operates to replace and/or repair this infrastructure, it will generate emissions that would create the potential to impact sensitive receptors. Consequently, the District recommends the following:

1. All on-road diesel haul and/or construction trucks over 14,000 GVWR should include Best Available Control Technology (BACT) for diesel particulate emissions. This can be achieved with the use of a CARB verified Level 3 particulate filter on the main engine or the engine must meet the CARB 2007 emission standards for particulates or equivalent. In addition, all off-road equipment over 25 horsepower should be equipped with BACT for diesel particulate emissions. These measures are recommended to reduce to the extent feasible exposure of local residents as well as workers to toxic diesel emissions.
2. The use of solar/battery powered temporary traffic control signage and message boards is encouraged and recommended over signage powered by internal combustion engines.

The District encourages the City to take reasonable steps to ensure that operations associated with the project do not interfere with the public's ability to walk or bike as an alternative to using a motor vehicle for transportation. The District recommends that safe pedestrian and bicyclist access, if any exists on the current roadway, be maintained in or around the construction areas. Any traffic control plan should require that safety signage, construction equipment, fencing or materials, etc. be placed in such a way as to minimize conflict with or obstruct active use of existing bicycle and pedestrian infrastructure, where feasible.

If you have any questions concerning this letter, please contact me at (530) 757-3668.

Sincerely,



Matthew R. Jones
Supervising Air Quality Planner

MITIGATION MONITORING AND REPORTING PROGRAM

2014 WPCF Improvement Project and Water/Wastewater Line Repairs

Prepared for:

City of Woodland

300 First Street
Woodland, CA 95695
Contact: Mark Cocke

Prepared by:

DUDEK

980 Ninth Street, Suite 1750
Sacramento, California 95814
Contact: Brian Grattidge

FEBRUARY 2014

1.0 MITIGATION MONITORING AND REPORTING PROGRAM

The California Environmental Quality Act (CEQA) requires that when a lead agency adopts a mitigated negative declaration, it shall prepare a monitoring or reporting program (MMRP) for all required mitigation measures (CEQA Guidelines Section 15097).

This MMRP has been developed for the City of Woodland 2014 WPCF Improvements Project and Water/Wastewater Line Repairs (State Clearinghouse #2014012009).

Table 1
Mitigation Monitoring and Reporting Program

Number	Mitigation Measure	Mitigation Timing	Monitoring Party
		Responsible Party	Sign Off
BIO-1	The blower building site shall be fenced off (a minimum of 200 feet from the nearest potential nest) during the non-breeding season: February 1 through August 31. If construction activity outside of the fenced area must be scheduled during the breeding season, a qualified biologist shall determine if the burrows are active. If active, the biologist shall determine the necessary buffer and will monitor the site during construction activities.	If activity begins prior to February 1 – Install Fencing <i>Contractor</i> If activity begins after February 1 – Qualified biologist must inspect prior to construction <i>Public Works Dept.</i>	Public Works Department Project Manager and/or Construction Manager to verify prior to start of construction
BIO-2	All necessary precautions, including implementation of standard best management practices, should be employed to avoid runoff or fill material into the adjacent alkali seasonal wetland community. This shall include establishing work area and staging area within the existing WPCF site, identifying equipment and commute travel routes such that the seasonal wetland is not directly affected, and installation of sediment fencing between work areas and the seasonal wetland.	Prior to start of construction – Identify construction and staging areas. Install sediment fencing or other barriers as needed to isolate disturbance areas from seasonal wetland near blower building site	Public Works Department Project Manager and/or Construction Manager to verify installation prior to start of construction. Construction Inspector to monitor throughout construction period.

CITY COUNCIL RESOLUTION NO. _____

**A RESOLUTION OF THE CITY COUNCIL OF THE
CITY OF WOODLAND, CALIFORNIA, ADOPTING THE MITIGATED NEGATIVE
DECLARATION FOR THE 2014 WPCF IMPROVEMENTS AND
WATER/WASTEWATER LINE REPAIRS**

WHEREAS, the City of Woodland proposes to carry out certain improvements at the Water Pollution Control Facility (WPCF) and conduct various repairs and replacements to water distribution lines and wastewater collection lines within the City of Woodland (the “Project”); and

WHEREAS, an Initial Study was prepared for the Project, which concluded that the proposed Project would not have a significant effect on the environment with implementation of certain mitigation measures; therefore a Mitigated Negative Declaration was prepared; and

WHEREAS, pursuant to California State Law, the Mitigated Negative Declaration was circulated for a period of 30 days, from January 6 through February 4, 2014; and a Notice of Intent was published in the Daily Democrat on January 5, 2014; and

WHEREAS, Section 21000, *et. seq.*, of the Public Resources Code and Section 15000, *et. seq.*, of Title 14 of the California Code of Regulations (the “CEQA Guidelines”), which govern the preparation, content, and processing of Negative Declarations, have been fully implemented in the preparation of the Mitigated Negative Declaration.

NOW, THEREFORE, BE IT RESOLVED that the City Council of the City of Woodland makes the following findings, determinations, and recommendations with respect to the Mitigated Negative Declaration for the proposed Project:

1. The City Council has independently reviewed and considered the Mitigated Negative Declaration and all written comments received; and
2. An Initial Study was prepared for the Project, and on the basis of the whole record, there is no substantial evidence that the Project will have a significant effect on the environment with the implementation of feasible mitigation measures, therefore a Mitigated Negative Declaration has been prepared; and
3. The Mitigated Negative Declaration reflects the City Council’s independent judgment and analysis; and
4. The documents and other materials, including without limitation staff reports, memoranda, maps, letters and minutes of all relevant meetings, which constitute the administrative record of proceedings upon which the Council’s resolution is based, are located at the City of Woodland, Public Works Department, 300 First Street, Woodland, CA 95695; and

BE IT FURTHER RESOLVED by the City Council of the City of Woodland that approval of the Project would not result in any significant effects on the environment with implementation of mitigation measures identified in the Mitigated Negative Declaration, and the City Council does hereby adopt the Mitigated Negative Declaration and Initial Study set forth in **Exhibit 1**; and

BE IT FURTHER RESOLVED by the City Council of the City Woodland that the City of Woodland hereby adopts the Mitigation Monitoring and Reporting Program set forth in **Exhibit 2** for the proposed Project, which was prepared pursuant to Section 15097 of the CEQA Guidelines; and

BE IT FURTHER RESOLVED that the City Clerk will file a Notice of Determination with the County of Woodland Clerk/Recorder within five days of approval of the proposed Project.

DULY AND REGULARLY ADOPTED on this 18th day of February, 2014, by the City Council of the City of Woodland by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

Marlin H. Davies, Mayor

ATTEST:

APPROVED AS TO FORM:

Ana B. Gonzalez, City Clerk

Kara K. Ueda, City Attorney

EXHIBIT 1

EXHIBIT 2

RESOLUTION _____

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF WOODLAND DESIGNATING CERTAIN PRODUCTS, BRANDS OR SERVICES PURSUANT TO PUBLIC CONTRACT CODE SECTION 3400

WHEREAS, pursuant to Public Contract Code section 3400(c), the **CITY OF WOODLAND** ("City") may make findings designating certain products, things or services by specific brand or trade name for the statutorily enumerated purposes; and

WHEREAS, City Council has reviewed the City's current facilities, general contracts, plans, and specifications in order to evaluate the City's need to establish uniform, complete, and compatible electrical and mechanical components at the Water Pollution Control Facility (WPCF) that are consistent with equipment being used for wastewater treatment systems for City-wide use in order to facilitate the most reliable, dependable, and cost efficient system throughout the City; and

WHEREAS, the components are listed on the attached Exhibit A and will allow the City to ensure that the mechanical and electrical components utilized on the Water Pollution Control Facility Aeration System Retrofit Project - CIP #12-02 (Project) and for all future City projects match the currently utilized components in use at other City facilities as permitted pursuant to Public Contract Code Section 3400(c)(2); and

WHEREAS, City maintenance personnel have been trained in the maintenance, repair and replacement of the mechanical and electrical components listed in Exhibit A, and maintain a stock of the equipment needed for replacements and maintenance; and

WHEREAS, City staff has determined that the mechanical and electrical components listed above have demonstrated ease of maintenance, reliability, durability, and quality; and

WHEREAS, based on the Council's above described review and Public Contract Code Section 3400(c)(2), the Council has determined the City must require and specify the use of the mechanical and electrical components listed above on City projects as set forth below.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF WOODLAND AS FOLLOWS:

Section 1. The above recitals are true and correct.

Section 2. The City, pursuant to Public Contract Code section 3400, intends to establish uniform, complete and compatible electrical and mechanical components for wastewater treatment systems to facilitate the use of the most reliable, dependable, cost efficient and feasible products throughout the City.

Section 3. The City has found compatibility, cost, ease of maintenance and use of different types of equipment and mechanical and electrical component manufacturers to be problematic and believes it necessary to establish a uniform equipment manufacturer requirement in order to avoid incompatibility issues, as well as security, durability and reliability

issues, and costs associated with experimenting and replacing incompatible and useless mechanical and electrical products and to avoid the waste of City funds associated with addressing incompatible components.

Section 4. The manufacturer's equipment listed in Exhibit A are specified because the majority of equipment at the WPCF is as listed above and the City wants to match its wastewater treatment equipment and associated parts.

Section 5. City staff has determined that the equipment listed in Exhibit A has demonstrated its reliability, durability, quality and long-term accuracy.

Section 6. City maintenance staff has been trained in the maintenance, replacement, and repair of the equipment listed in Exhibit A and the City maintains a stock of the equipment needed for replacement and maintenance.

Section 7. The City and its consultants have undertaken research into the products/brands of equipment listed in Exhibit A. Pursuant to Public Contract Code Section 3400(c)(2), the City Council hereby designates the equipment listed in Exhibit A for use in the Project so as to establish a standardization of the City's specialized wastewater treatment system's electrical and mechanical components, thus avoiding incompatibility of products, as well as security, replacement and maintenance problems.

Section 8. This Resolution shall be effective as of the date of adoption.

PASSED AND ADOPTED by said City Council on _____, 2014, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

Marlin H. Davies, Mayor

ATTEST:

APPROVED AS TO FORM:

Ana B. Gonzalez, City Clerk

Kara K. Ueda, City Attorney

EXHIBIT A

LIST OF SPECIALIZED EQUIPMENT FOR SOLE SOURCING

1. Allen Bradley Variable Frequency Motor Drives
2. Hach pH Analyzers
3. Hach Alkalinity Analyzers
4. Hach ORP Analyzers
5. Hach Nitrate Analyzers
6. Allen Bradley Control Relays
7. ITT Flygt Submersible RAS Pumps
8. APG-Neuros, Inc High Speed Turbo Blowers including Hach Dissolved Oxygen, and Ammonia analyzers and transmitters
9. Invent Environmental Technologies HyperClassic Vertical Shaft Mixers
10. Sanitaire Membrane Disc Diffusers

RESOLUTION _____

**RESOLUTION OF THE CITY COUNCIL OF
THE CITY OF WOODLAND
DESIGNATING CERTAIN PRODUCTS, BRANDS OR SERVICES
PURSUANT TO PUBLIC CONTRACT CODE SECTION 3400**

WHEREAS, pursuant to Public Contract Code section 3400(c), the **CITY OF WOODLAND** ("City") may make findings designating certain products, things or services by specific brand or trade name for the statutorily enumerated purposes; and

WHEREAS, City Council has reviewed the City's current facilities, general contracts, plans, and specifications in order to evaluate the City's need to establish uniform, complete, and compatible components at the Water Pollution Control Facility (WPCF) that are consistent with equipment being used for the wastewater treatment system for City-wide use in order to facilitate the most reliable, dependable, and cost efficient system throughout the City; and

WHEREAS, the City has undertaken considerable research of various options for the procurement and installation of rotating plate screens in order to determine the company that produces rotating plate screens that will best meet the City's needs; and

WHEREAS, procurement of JWC 3mm screens will allow the City to ensure that the components utilized at the WPCF and for all future City projects match the currently utilized components in use at other City facilities and will not require modification to the headworks; and

WHEREAS, City maintenance personnel have been trained in the maintenance, repair and replacement of JWC 3mm screens, and maintain a stock of the equipment needed for replacements and maintenance; and

WHEREAS, City staff has determined that the JWC 3mm screens have demonstrated ease of maintenance, reliability, durability, and quality; and

WHEREAS, California case law excuses compliance with competitive bidding requirements in exceptional circumstances such as where requests for competitive bids would be futile, unavailing or would not produce an advantage, including when there is only one contracting party who can complete the work (*Los Angeles Dredging Co. v. Long Beach* (1930) 210 Cal. 348; *Graydon v. Pasadena Redevelopment Agency* (1980) 104 Cal.App.3d 631); and

WHEREAS, the procurement of JWC 3mm screens from MISCO Water, the exclusive authorized representative of JWC Environmental in Northern California, will allow the City to ensure that the rotating plate screen utilized is uniform and compatible with the existing equipment being used for the wastewater treatment system at the WPCF in accordance with Public Contract Code Section 3400(c)(2) & (3); and

WHEREAS, as the exclusive authorized representative of JWC Environmental in Northern California, MISCO Water, is the only source that can provide and install the JWC 3mm screens from JWC Environmental that would be functionally linked to the existing equipment being used for the wastewater treatment system at the WPCF; and

WHEREAS, based on the Council's above described review and Public Contract Code Section 3400(c)(2) & (3), the Council has determined the City must require and specify the use of the JWC 3mm screens; and

WHEREAS, based on the unavailing nature of competitive bidding in this case and Public Contract Code Section 3400(c)(2) & (3), the City concludes that it is in the best interests of the City to purchase the JWC 3mm screens from MISCO Water, and to contract with MISCO Water for the installation of the JWC 3mm screens.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF WOODLAND AS FOLLOWS:

Section 1. The above recitals are true and correct.

Section 2. The City, pursuant to Public Contract Code Section 3400, intends to establish uniform, complete and compatible components for wastewater treatment to facilitate the use of the most reliable, dependable, cost efficient and feasible products throughout the City.

Section 3. The City has found compatibility, cost, ease of maintenance and use of different types of rotating plate screens to be problematic and believes it necessary to establish a uniform equipment manufacturer requirement in order to avoid incompatibility issues, as well as security, durability and reliability issues, and costs associated with experimenting and replacing incompatible and useless products and to avoid the waste of City funds associated with addressing incompatible components.

Section 4. The JWC 3mm screen manufactured by JWC Environmental is specified because it matches the components utilized at the WPCF and will not require modification to the headworks.

Section 5. City staff has determined that the JWC 3mm screen has demonstrated its reliability, durability and quality.

Section 6. The City's research also indicates that including multiple brands of equipment may cause incompatibility issues and make wastewater treatment more difficult to implement. Furthermore, the City's installed screen system is already equipped with JWC Environmental screens and can be readily configured with the JWC 3mm screen.

Section 7. City maintenance staff has been trained in the maintenance, replacement, and repair of the JWC 3mm screens and the City maintains a stock of the equipment needed for replacement and maintenance.

Section 8. The City and its consultants have undertaken research into the products/brands of rotating plate screens. Pursuant to Public Contract Code Section 3400(c)(2) & (3), the City Council hereby designates the above listed equipment for use in future projects so as to establish a standardization of the City's specialized wastewater treatment components, thus avoiding incompatibility of products, as well as security, replacement and maintenance problems.

Section 9. Pursuant to Public Contract Code Section 3400(c)(2) & (3), the City Council finds that MISCO Water is the only authorized vendor and installer of JWC 3mm screens in Northern California and, as such, bidding would be futile and provide the City with no competitive advantage as no other contractor could bid the JWC 3mm screens or functionally link the new JWC 3mm screens to the existing wastewater treatment equipment.

Section 10. The Board hereby authorizes the City Manager, or his or her designee, to execute the necessary agreements and contracts with MISCO Water, subject to successful negotiation of final agreement terms, and subject to such additions thereto or modifications thereto as the City Manager, or his or her designee, may deem in the best interest of the City.

Section 11. This Resolution shall be effective as of the date of adoption.

PASSED AND ADOPTED by said City Council on _____, 2014, by the following vote:

AYES:
NOES:
ABSENT:
ABSTAIN:

Marlin H. Davies, Mayor

ATTEST:

APPROVED AS TO FORM:

Ana B. Gonzalez, City Clerk

Kara K. Ueda, City Attorney

RESOLUTION _____

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF WOODLAND DESIGNATING CERTAIN PRODUCTS, BRANDS OR SERVICES PURSUANT TO PUBLIC CONTRACT CODE SECTION 3400

WHEREAS, pursuant to Public Contract Code section 3400(c), the **CITY OF WOODLAND** ("City") may make findings designating certain products, things or services by specific brand or trade name for the statutorily enumerated purposes; and

WHEREAS, the City has undertaken considerable research of various options for the procurement of programmable logic controllers (PLCs), programming, and SCADA integration services in order to determine the company that provides this equipment and services that will best meet the City's needs; and

WHEREAS, the City Council has reviewed the City's current facilities, general contracts, plans, and specifications in order to evaluate the City's need to procure specialized equipment and services for the Water Pollution Control Facility Aeration System Retrofit Project - CIP #12-02 (Project) that are consistent with services currently being provided and the system currently being utilized at the Water Pollution Control Facility (WPCF) lift stations in order to facilitate the most reliable, dependable, and cost efficient system throughout the City; and

WHEREAS, the PLCs are listed on the attached Exhibit A and will allow the City to ensure that the components utilized on the Water Pollution Control Facility Aeration System Retrofit Project - CIP #12-02 (Project) and for all future City projects match the currently utilized components in use at other City facilities as permitted pursuant to Public Contract Code Section 3400(c)(2); and

WHEREAS, procurement of the highly specialized scope of work identified in Exhibit A ("Special Services") directly from Tesco Controls, Inc. ("Tesco"), will allow the City to ensure that the Special Services will be performed by a subcontractor that possesses the necessary knowledge, skill, expertise and experience; and

WHEREAS, City maintenance personnel have been trained in the maintenance, repair and replacement of the PLCs listed in Exhibit A, and maintain a stock of the equipment needed for replacements and maintenance; and

WHEREAS, City staff has determined that the PLCs listed above have demonstrated ease of maintenance, reliability, durability, and quality; and

WHEREAS, California case law excuses compliance with competitive bidding requirements in exceptional circumstances such as where requests for competitive bids would be futile, unavailing or would not produce an advantage, including when there is only one contracting party who can complete the work (*Los Angeles Dredging Co. v. Long Beach* (1930) 210 Cal. 348; *Graydon v. Pasadena Redevelopment Agency* (1980) 104 Cal.App.3d 631); and

WHEREAS, because Tesco is presently under contract with the City for the performance of wastewater system integration, SCADA controls and system maintenance at the WPCF and has superior knowledge of the Special Services and the Project conditions and requirements

based on its experience performing all programming for the wastewater system, seeking bids from other contractors is unlikely to produce any advantage for the City; and

WHEREAS, the City additionally requires the continued operation of the wastewater system during performance of the Project, and Tesco's expertise and knowledge regarding the wastewater system will be instrumental in meeting this requirement; and

WHEREAS, based on the Council's above described review and Public Contract Code Section 3400(c)(2) & (3), the Council has determined the City must require and specify the use of Tesco for the Special Services; and

WHEREAS, based on the unavailing nature of competitive bidding in this case and Public Contract Code Section 3400(c)(2) & (3), the City concludes that it is in the best interests of the City to award a sole-source contract to Tesco for the Special Services.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF WOODLAND AS FOLLOWS:

Section 1. The above recitals are true and correct.

Section 2. The City, pursuant to Public Contract Code Section 3400, intends to procure specialized services for the Project that are consistent with services currently being provided and the system currently being utilized at the WPCF in order to facilitate the most reliable, dependable, and cost efficient system throughout the City

Section 3. The City has found compatibility, cost, ease of maintenance and use of different types of SCADA equipment to be problematic and believes it necessary to establish a uniform equipment manufacturer requirement in order to avoid incompatibility issues, as well as security, durability and reliability issues, and costs associated with experimenting and replacing incompatible and useless PLC and SCADA equipment and to avoid the waste of City funds associated with addressing incompatible components.

Section 4. The City Council finds that procurement of the Special Services directly from Tesco will allow the City to ensure that the Special Services will be performed by a subcontractor that possesses the necessary knowledge, skill, expertise and experience and will avoid incompatibility issues, as well as security, durability and reliability issues, and costs associated with experimenting with a non-specialized firm and will avoid the waste of City funds associated with addressing defects in the performance of the Special Services.

Section 5. The City Council further finds that because Tesco is presently under contract with the City for the performance of wastewater system integration, SCADA controls and system maintenance at the WPCF and has superior knowledge of the Special Services and the Project conditions and requirements based on its experience performing all programming for the wastewater system, seeking bids from other contractors is unlikely to produce any advantage for the City.

Section 6. The City Council further finds that the PLCs listed in Exhibit A and Tesco's previous performance has demonstrated its reliability, expertise and quality of work.

Section 7. The City's research also indicates that including multiple brands of SCADA equipment may cause incompatibility issues and make SCADA data retrieval and transmitting more difficult to implement. Furthermore, the City's installed SCADA system is already equipped with the above listed material and can be readily configured with this equipment.

Section 8. City maintenance staff has been trained in the maintenance, replacement, and repair of the equipment listed in Exhibit A and the City maintains a stock of the equipment needed for replacement and maintenance.

Section 9. The City Council further finds that Tesco's expertise and knowledge regarding the City's wastewater system will be instrumental in meeting the requirement that the system be in continuous operation during performance of the Project.

Section 10. Pursuant to Public Contract Code Section 3400(c)(2) & (3), the City Council finds that Tesco is the only firm that can adequately perform the Special Services and, as such, bidding would be futile and provide the City with no competitive advantage as no other contractor that could bid on the work possesses the superior knowledge of the City's wastewater system that Tesco possesses.

Section 11. This Resolution shall be effective as of the date of adoption

PASSED AND ADOPTED by said City Council on _____, 2014, by the following vote:

AYES:
NOES:
ABSENT:
ABSTAIN:

Marlin H. Davies, Mayor

ATTEST:

APPROVED AS TO FORM:

Ana B. Gonzalez, City Clerk

Kara K. Ueda, City Attorney

EXHIBIT A

1. 1. Provide one (1) new Allen Bradley ControlLogix PLC (RTU-5) for the new equipment provided for the Aeration System Retrofit Project. Provide three (3) new Allen Bradley ControlLogix PLCs (RTU- 3/3A, 4A/4B, and RTU-6) to replace existing controllers at WPCF. Provide two (2) new Allen Bradley CompactLogix PLCs (RTU-1 and RTU-8) to replace existing controllers at West Levee and Spring Lake Pump Stations.
2. Provide programming of PLCs provided on this project. For new PLCs (RTU-5), programming will be developed based on control descriptions and process and instrumentation drawings prepared for the Aeration System Retrofit Project. For replacement of existing PLCs (RTU-1, 3/3A, 4A/4B, 6, and 8), the existing program will be converted or updated for the new PLCs.
3. Integration of PLCs with the SCADA (Supervisory Control and Data Acquisition) control system at the WPCF. This includes developing graphic screens to allow operations staff to monitor equipment and process status, monitor and adjust critical setpoints, and view alarms at operator interface terminals.
4. Perform in-house simulations of instrument functions and programming code prior to installation at WPCF and remote pump stations.
5. Perform startup, calibration, and testing of instruments, point-to-point communication between instruments and PLCs, on-site verification between PLC and SCADA, and overall testing of system to ensure performance meets project requirements.
6. Provide operation and maintenance information and training to WPCF staff.

RESOLUTION NO. _____
A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF WOODLAND
AUTHORIZING APPLICATION TO THE STATE WATER RESOURCES CONTROL
BOARD AND EXECUTION OF A FINANCING AGREEMENT FOR FINANCIAL
ASSISTANCE UNDER THE STATE REVOLVING FUND LOAN AND GRANT
PROGRAM FOR THE PLANNING, DESIGN AND CONSTRUCTION OF
WASTEWATER INFRASTRUCTURE IMPROVEMENTS

WHEREAS, the State of California has established a State Revolving Fund (SRF) loan and grant program for providing financial assistance to cities for the planning, design, and construction of their wastewater infrastructure; and

WHEREAS, the City of Woodland (“Entity”) desires to participate in the loan and grant program from said SRF to finance the costs of constructing certain public facilities and improvements relating to its wastewater system, including certain treatment facilities, pipelines and other infrastructure;

NOW THEREFORE, BE IT RESOLVED by the City Council of the City of Woodland as follows:

SECTION 1. The CITY MANAGER (the “Authorized Representative”), or his or her designee, is hereby authorized and directed to sign and file, for and on behalf of the Entity, a Financial Assistance Application for a financing agreement from the State Water Resources Control Board for the planning, design, and construction of certain wastewater infrastructure improvements.

SECTION 2. The Authorized Representative, or his or her designee, is designated to provide the assurances, certifications, and commitments required for the financial assistance application, including executing a financial assistance agreement from the State Water Resources Control Board and any amendments or changes thereto.

SECTION 3. The Authorized Representative, or his or her designee, is designated to represent the Entity in carrying out the Entity’s responsibilities under the financing agreement, including certifying disbursement requests on behalf of the Entity and compliance with applicable state and federal laws.

PASSED AND ADOPTED by the City Council of the City of Woodland on _____, 2014, by the following vote:

AYES:
NOES:
ABSENT:
ABSTAIN:

Marlin H. Davies, Mayor

ATTEST:

APPROVED AS TO FORM:

Ana B. Gonzalez, City Clerk

Kara K. Ueda, City Attorney

CERTIFICATION

I do hereby certify that the foregoing is a full, true, and correct copy of a resolution duly and regularly adopted at a meeting of the Woodland City Council held on

_____.

Ana Gonzalez, City Clerk

SEAL:

RESOLUTION NO. _____
A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF WOODLAND
ESTABLISHING OFFICIAL INTENT RELATING TO QUALIFICATION FOR
REIMBURSEMENT OF COSTS FOR WASTEWATER INFRASTRUCTURE
IMPROVEMENTS

WHEREAS, the City of Woodland (the "Agency") desires to finance the costs of constructing certain public facilities and improvements relating to its wastewater system, including certain treatment facilities, pipelines and other infrastructure; and

WHEREAS, the Agency intends to finance the construction of the wastewater infrastructure improvements or portions of the wastewater infrastructure improvements with monies ("Project Funds") provided by the State of California, acting by and through the State Water Resources Control Board (State Water Board); and

WHEREAS, the State Water Board may fund the Project Funds with proceeds from the sale of obligations the interest upon which is excluded from gross income for federal income tax purposes (the "Obligations"); and

WHEREAS, prior to either the issuance of the Obligations or the approval by the State Water Board of the Project Funds, the Agency desires to incur certain capital expenditures (the "Expenditures") with respect to the Project from available monies of the Agency; and

WHEREAS, the Agency has determined that those monies to be advanced on and after the date hereof to pay the Expenditures are available only for a temporary period, and it is necessary to reimburse the Agency for the Expenditures from the proceeds of the Obligations.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Woodland as follows:

SECTION 1. The Agency hereby states its intention and reasonably expects to reimburse Expenditures paid prior to the issuance of the Obligations or the approval by the State Water Board of the Project Funds.

SECTION 2. The reasonably expected maximum principal amount of the Project Funds is \$23,732,647.

SECTION 3. This resolution is being adopted no later than 60 days after the date on which the Agency will expend monies for the portion of the wastewater infrastructure improvements costs to be reimbursed with Project Funds.

SECTION 4. Each Agency expenditure will be of a type properly chargeable to a capital account under general federal income tax principles.

SECTION 5. To the best of our knowledge, this Agency is not aware of the previous adoption of official intents by the Agency that have been made as a matter of course for the purpose of reimbursing expenditures and for which tax-exempt obligations have not been issued.

SECTION 6. This resolution is adopted as official intent of the Agency in order to comply with Treasury Regulation §1.150-2 and any other regulations of the Internal Revenue Service relating to the qualification for reimbursement of wastewater infrastructure improvements costs.

SECTION 7. All the recitals in this Resolution are true and correct and this Agency so finds, determines and represents.

PASSED AND ADOPTED by the City Council of the City of Woodland on _____, 2014, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

Marlin H. Davies, Mayor

ATTEST:

APPROVED AS TO FORM:

Ana B. Gonzalez, City Clerk

Kara K. Ueda, City Attorney

CERTIFICATION

I do hereby certify that the foregoing is a full, true, and correct copy of a resolution duly and regularly adopted at a meeting of the Woodland City Council held on _____.

Ana Gonzalez, City Clerk

SEAL:

RESOLUTION NO. _____
A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF WOODLAND
PLEDGING REVENUES FOR REPAYMENT OF CLEAN WATER STATE
REVOLVING FUND OBLIGATIONS FOR WASTEWATER INFRASTRUCTURE
IMPROVEMENTS

WHEREAS, the State of California has established a State Revolving Fund (SRF) loan and grant program for providing financial assistance to cities for the planning, design, and construction of their wastewater infrastructure; and

WHEREAS, the City of Woodland (“Entity”) desires to participate in the SRF loan and grant program to finance the costs of constructing certain public facilities and improvements relating to its wastewater system, including certain treatment facilities, pipelines and other infrastructure; and

WHEREAS, as a condition of receiving financial assistance through the SRF loan and grant program, Entity is required to enter into a financial assistance agreement, which sets forth certain repayment obligations.

NOW THEREFORE, BE IT RESOLVED by the City Council of the City of Woodland as follows:

SECTION 1. The City of Woodland (the “Entity”) hereby dedicates and pledges funds from the Sewer Enterprise Fund – Fund 220 to payment of any and all Clean Water State Revolving Fund financing for the wastewater infrastructure improvements.

SECTION 2. The Entity commits to collecting such revenues and maintaining such fund(s) throughout the term of such financing and until the Entity has satisfied its repayment obligation thereunder unless modification or change is approved in writing by the State Water Resources Control Board.

SECTION 3. So long as the financing agreement(s) are outstanding, the Entity’s pledge hereunder shall constitute a lien in favor of the State Water Resources Control Board on the foregoing fund(s) and revenue(s) without any further action necessary.

SECTION 4. So long as the financing agreement(s) are outstanding, the Entity commits to maintaining the fund(s) and revenue(s) at levels sufficient to meet its obligations under the financing agreement(s).

PASSED AND ADOPTED by the City Council of the City of Woodland on _____, 2014,
by the following vote:

AYES:

NOES:

ABSENT:
ABSTAIN:

Marlin H. Davies, Mayor

ATTEST:

APPROVED AS TO FORM:

Ana B. Gonzalez, City Clerk

Kara K. Ueda, City Attorney

CERTIFICATION

I do hereby certify that the foregoing is a full, true, and correct copy of a resolution duly and regularly adopted at a meeting of the Woodland City Council held on _____.

Ana Gonzalez, City Clerk

SEAL:

Legislation Details (With Text)

File #: 14-055 Version: 1 Name:
Type: Report of the City Manager Status: Agenda Ready
File created: 2/10/2014 In control: City Council
On agenda: 2/18/2014 Final action:
Title: SUBJECT: FY2013/14 Mid-Year Budget Update
Recommendation for Action: Information purposes only; no action required.
Sponsors:
Indexes:
Code sections:
Attachments: [FY2013-14 MidYear Budget Update Attachment REVISED](#)

Date	Ver.	Action By	Action	Result
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TO: THE HONORABLE MAYOR AND CITY COUNCIL

DATE: February 18, 2014

SUBJECT: FY2013/14 Mid-Year Budget Update

Recommendation for Action: Information purposes only; no action required.

Staff Contact

Evis Morales, Finance Analyst - 530-661-5923, evis.morales@cityofwoodland.org

Fiscal Impact

This informational item presents the Citywide revenue and expenditure results through the first six periods of fiscal year 2013/14, as well as updated General Fund projections through the end of this fiscal year.

Discussion

Based on revenue results through the first six months of fiscal year 2013/14, the City's General Fund revenue estimates indicate an increase over the original budget of \$745,445. The variance is due primarily to better than expected revenues related to development and issuance of building permits, from property and sales taxes in excess of budget, and several one-time "clean-up" adjustments in the City's sales tax. During the budget preparation, staff assumed a 1.0% increase in assessed value and related property taxes; Yolo County published the tax roll in July, which showed a 1.88% increase. Other revenues, such as franchise fees, motor vehicle in lieu and interest earnings, are projected to fall relatively close to FY13/14 forecasts based on current year trends.

The results of the projections for both revenues and expenditures included herein are being used in

development of the FY2014/15 budget, which is expected to be outlined with the Council during the March budget workshop.

This report summarizes the All Funds revenue and expenditure results for the first six periods of fiscal year 2013/14. In addition, the report highlights revenues and expenditures in the General Fund for the first half of 2013/14 and updated projections for General Fund results through the end of the year. Also included in this report are the preliminary numbers for the actual results of fiscal year 2012/13. Because the annual audit for FY2012/13 is underway but not yet completed, the results are considered preliminary and may be subject to auditor adjustments.

The following represents selected highlights from the mid-year budget report:

- All Funds revenues through the second quarter of 2013/14 are \$36.67 million, or 25.94% of the adjusted All Funds budget of \$141.4 million. (See Attachment A, Table 1)
- Through the second quarter of the current fiscal year, All Funds Expenditures total \$59.36 million or 33.27% of the adjusted budget of \$178.43 million. (See Attachment A, Tables 2-3).
- Year-to-date FY2013/14 General Fund revenues through the second quarter of the fiscal year were \$9.81 million or 24.58% of the \$39,908,363 budget.
 - Property Taxes: The first installment of property tax revenues is not received until January 2014. Information received from Yolo County on citywide assessed valuations indicates that citywide assessed value increased by 1.8% compared to a budget estimate of a 1.0% increase. Staff has received revenues and completed an analysis of expected results for the current fiscal year, which show projections for a positive budget variance of \$129,336.
 - Sales Tax: The City works with a sales tax consultant to assist with monitoring of sales tax activity and projections, which are closely monitored throughout the year. Based upon the results for the current year, total sales taxes (including Measures E and V) are trending above budget by \$250,354. The large part of this increase is related to a \$240,000 one-time “clean-up” adjustment. Conversely, both Measure E and Measure V are expected to come in under budget by \$163,328 and \$48,170, respectively. Measure E revenues do not remain in the General Fund but are transferred out to a separate fund throughout the year. Without the reduction in Measure E, FY13/14 sales tax revenues indicate a positive budgetary variance of \$413,682.
 - Permit/License Fees: The fees in this category are derived primarily from business licenses, planning fees and other building and miscellaneous permits. The projected positive budgetary variance of \$95,583 is the result of better than expected development activity, including non-residential development as well as single family residential development. The fees in this category tend to be cyclical and are dependent in large part on continued development activity in the City.
 - Miscellaneous: As a result of historical over-calculation of property tax administration fees, the City will receive a one-time settlement of \$256,000 that was not anticipated in the budget.
- Year-to-date FY2013/14 General Fund expenditures through the second quarter of the fiscal year were \$16.93 million or 38.85% of the \$43.6 million adjusted budget.

- Projections through the end of the fiscal year indicate that expenditures will be very close to the original budget, with a small favorable variance of \$181,590. This favorable variance is due primarily to Personnel cost savings of Public Safety's Fire Division and a savings in Operating Transfers related to Measure E revenues.
- Preliminary results for FY2012/13 show the General Fund ended the year with a net increase in fund balance of \$3.8 million.
 - Preparation of the FY2013/14 budget assumed a net increase of \$550 thousand in fund balance. The originally budgeted net increase in fund balance was attributable to a revenues coming in higher than projected expenses.
 - During development of the FY2013/14 original budget, projections were made for the ending of FY2012/13; revenues were assumed to be \$38.6 million; actual results came in over that target by \$2.16 million. This variance resulted primarily from better than anticipated sales tax and building permit fee revenues.
 - Expenditures ended the year under the projection by more than \$1.1 million. The largest savings occurred as a result of unanticipated vacancies throughout the year, as well as additional savings in discretionary supplies and services by the departments.
 - Total ending fund balance in the General Fund is preliminarily calculated at \$12.4 million for FY2012/13. Part of this fund balance is reserved for repayment of internal loans received by the General Fund in previous fiscal years and used as part of the balancing plans beginning in FY2007/08. Because the General Fund has borrowed this money, it is appropriate to recognize the future repayment of those loans as a reservation of fund balance, since it will not be available for future discretionary spending and was appropriated in the FY2013/14 budget for repayment. After removing the reserved items from fund balance, the unrestricted fund balance in the General Fund for FY2012/13 is \$9.9 million, or 26.81% of expenditures. The projections for FY2013/14 indicate an unreserved fund balance of \$9.6 million, or 24.59%.

Fund Balance

Based on the information presented herein, the General Fund is expected to have fund balance in excess of the Council's reserve policy of 13% at the end of the fiscal year. Based on the five year projections for the General Fund that were prepared and presented with adoption of the FY2013/14 budget, these excess reserves will be depleted to at least the minimum reserve level within the next two or three fiscal years due in large part to the expiration of Measure V. An updated five year projection for the General Fund, including revisions to anticipated fund balances, will be discussed in more detail with Council at future FY2014/15 budget workshops.

Conclusion

This informational item presents the mid-year budget update for FY2013/14. The information provided in this report includes year-to-date revenue and expenditure results through the first six months of this fiscal year, as well as more detailed General Fund information and preliminary projections for year-end results. The baseline

budget for FY2014/15 will be the subject of the City Council's budget workshop in March 2014.

Prepared by: Evis Morales, Finance Analyst

Reviewed by: Kim McKinney, Finance Officer

A handwritten signature in dark ink, appearing to read "Paul Navazio", with a long horizontal flourish extending to the right.

Paul Navazio, City Manager

Attachment A - All Funds Revenues and Expenditures

Attachment B - General Fund Revenues and Expenditures

ATTACHMENT A

ALL FUNDS REVENUES AND EXPENDITURES

Table 1 – All Funds FY2013/14 Revenues

	FY2013/14 Revenues		Year-To-Date	
	Original Budget	Adjusted Budget	Actuals	%
General Fund	39,908,363	39,908,363	9,867,384	24.73%
Special Revenue	10,737,541	10,737,541	2,003,193	18.66%
Debt Service	6,068,993	6,068,993	157	0.00%
Capital Projects	9,938,038	9,938,038	4,922,369	49.53%
Enterprise Funds	56,489,372	56,489,372	15,352,573	27.18%
Internal Service	12,984,111	12,984,108	4,472,082	34.44%
Successor Agency	0	0	51,087	0.00%
Agency	5,258,803	5,258,802	280	0.01%
Total All Funds	141,385,221	141,385,216	36,669,127	25.94%

- All Funds revenues through the second quarter of 2013/14 are \$36.66 million, or 25.94% of the adjusted budget. General Fund revenues are \$9.86 million or 24.73% of the adjusted budget, with many of the City's major tax revenues yet to be collected.
- Special Revenue fund revenues include many special assessment districts (i.e. lighting and landscaping districts) that receive revenue disbursements with the property taxes received by the City in January and May each year.
- Revenues in the Capital Projects funds include anticipated internal transfers to cover deficits within certain capital funds; these internal transfers will occur toward the end of the fiscal year, as actual results become known. The Measure E funds is also included in this category, and only a portion of the sales tax revenues associated with Measure E have been received to date.
- Enterprise Fund revenue budgets assumed nearly \$27.5 million in revenues from the issuance of bonds. No debt has been issued in this fiscal year, which causes the year to date percentages to appear low.
- Agency funds are primarily pass-through special assessment funds. The revenues are received with the City's property tax distributions in January and May.

Table 2 – All Funds Expenditures by Fund

	FY2013/14 Expenditures			
	Original Budget	Adjusted Budget	Year-To-Date Actuals	%
General Fund	43,566,792	43,600,701	16,974,400	38.93%
Special Revenue	10,217,423	10,642,135	4,995,501	46.94%
Debt Service	5,967,975	5,967,975	1,250,358	20.95%
Capital Projects	20,558,808	24,328,805	3,242,156	13.33%
Enterprise Funds	70,996,441	73,524,072	20,298,270	27.61%
Internal Service	14,171,474	14,171,473	7,311,543	51.59%
Successor Agency	992,954	992,954	825,931	83.18%
Agency	5,204,867	5,204,867	4,467,164	85.83%
Total All Funds	171,676,734	178,432,983	59,365,322	33.27%

- Through the second quarter of FY2013/14, All Funds expenditures (not including encumbrances) totaled \$59.36 million, or 33.27% of the adjusted budget. General Fund expenditures totaled \$16.97 million, or 38.93% of the adjusted budget.
- Operating expenditures appear to be tracking within budget for all categories.
- Debt Service expenditures occur in large payments at various times of the year, with many of the payments due in February. As a result, the year to date expenditure percentage appears low.
- Agency Funds reflect expenditures of 85.83% of budget due to the timing of debt service payments made for the respective bond issues; many of these funds have payments due in September each year.

Table 3 – All Funds Expenditures by Department

	FY2013/14 Expenditures		Year-To-Date Actuals	%
	Original Budget	Adjusted Budget		
Administration	13,742,398	13,742,354	7,153,771	52.06%
Capital Improvements	62,621,532	69,229,017	16,308,371	23.56%
Community Development	7,221,617	7,255,557	4,136,005	57.00%
Fire	9,753,904	9,753,904	4,678,162	47.96%
Library	1,470,716	1,470,716	704,661	47.91%
Non-Departmental	30,496,278	30,496,278	7,084,280	23.23%
Police	16,000,605	16,000,605	7,784,110	48.65%
Public Works	28,321,703	28,436,573	10,504,633	36.94%
Community Services	2,047,981	2,047,981	1,011,328	49.38%
Total All Funds	171,676,734	178,432,983	59,365,322	33.27%

- As of the end of the second quarter of fiscal year 2013/14, all departments appear to be tracking closely to budget.

ATTACHMENT B

GENERAL FUND REVENUES AND EXPENDITURES

Table 1 – General Fund Revenues

FY2013/14 General Fund Revenues					Variance
	Original Budget	Adjusted Budget	Year-To-Date Actuals	FY2013/14 Projection	Favorable/ (Unfavorable)
Property Tax	8,935,977	8,935,977	-	9,065,313	129,336
Sales Tax	16,861,405	16,861,405	4,782,651	17,111,759	250,354
Other Taxes	955,000	955,000	364,029	925,575	(29,425)
Franchise Fees	1,921,220	1,921,220	626,091	1,921,220	-
Licenses/Permits	1,585,845	1,585,845	1,416,228	1,681,428	95,583
Fines and Penalties	203,101	203,101	84,138	229,121	26,020
Service Charges	556,133	556,133	256,150	534,304	(21,829)
Motor Vehicle In Lieu	3,755,190	3,755,190	24,304	3,756,684	1,494
Intergovernmental	396,000	396,000	59,281	411,000	15,000
Lease/Interest Income	114,540	114,540	27,986	109,540	(5,000)
Miscellaneous	4,485,574	4,485,574	2,170,742	4,769,485	283,911
Transfers	138,378	138,378	-	138,378	0
Total General Fund	39,908,363	39,908,363	9,811,600	40,653,807	745,445

- The City does not receive the first installment of property tax payments until January 2014. Information received from Yolo County indicates that the total assessed value increased by 1.8% from the prior year; the FY2013/14 budget assumed a 1% increase.
- Included in the Sales Tax revenues for FY2013/14 are several “clean-up” adjustments in the City’s sales taxes (totaling approximately \$240k). This payment is not calculated as part of the baseline assumption for sales tax revenues moving forward. The positive variance noted in the table is offset by an unfavorable variance of \$163,000 in Measure E revenues, which do not remain in the General Fund, but are transferred out to a separate fund throughout the year. Without the reduction in Measure E, FY13/14 sales tax revenues indicate a positive budgetary variance of \$413,682.
- The favorable variance is projected revenues from License/Permit fees is due to more development activity than originally anticipated, including some non-residential development as well as permits issued for single family homes.
- The positive variance in Miscellaneous revenues results from a one-time payment received for settlement of incorrect calculation of property tax administration fees in previous years.

Table 2 – General Fund Expenditures by Category

FY2013/14 General Fund Expenditures						
	Original Budget	Adjusted Budget	Year-To-Date		FY2013/14	Variance
			Actuals	%	Projections	Favorable/ (Unfavorable)
Personnel	23,983,056	23,983,026	11,940,984	49.79%	23,750,534	232,492
Supplies & Services	5,912,580	5,935,520	2,318,677	39.06%	6,149,750	(214,230)
Education & Training	251,144	262,144	95,671	36.50%	262,144	-
Debt Service	210,140	210,140	105,070	50.00%	210,140	-
Capital Expenditures	170,000	170,000	27,838	16.38%	170,000	-
Non-Discretionary	5,153,960	5,153,960	2,448,707	47.51%	5,153,960	-
Operating Transfers	7,885,912	7,885,912	-	0.00%	7,722,584	163,328
Total General Fund	43,566,792	43,600,702	16,936,947	38.85%	43,419,112	181,590

- Through the second quarter of FY2013/14, General Fund expenditures total \$16.93 million, or 38.85% of the adjusted budget.
- Personnel costs are trending to with budget, with 49.79% of the budget spent through the second quarter.
- Operating Transfers consist primarily of the transfer of Measure E sales tax received to the capital projects fund, as well as the subsidy for the Storm Drain and Cemetery operations. Because only a small portion of Measure E revenues have been received, the transfers have not yet been recorded. Other fund subsidies are typically recorded toward the end of the fiscal year, when more accurate information is available regarding the subsidies actually required.
 - The projection for Operating Transfers is under budget primarily as a result of less than expected revenues from Measure E, which is received as revenue into the General Fund and then transferred out to a separate fund. The chart above indicates that this is a favorable variance (less expense to the general fund); however, it is just indicative of less Measure E funding being available for transfer to capital projects.

Table 3 – General Fund Expenditures by Department

FY2013/14 General Fund Expenditures						
	Original Budget	Adjusted Budget	Year-To-Date		FY2013/14	Variance
			Actuals		Projections	Favorable/ (Unfavorable)
Administration	2,854,639	2,854,639	1,246,260	43.66%	2,881,858	(27,219)
Community Development	2,222,299	2,256,239	1,049,788	46.53%	2,200,112	56,127
Community Services	1,685,800	1,685,800	846,458	50.21%	1,924,716	(238,916)
Police	15,639,504	15,639,504	7,589,136	48.53%	15,844,707	(205,203)
Fire	9,532,799	9,532,799	4,541,554	47.64%	9,066,180	466,619
Library	1,241,339	1,241,339	676,742	54.52%	1,266,751	(25,412)
Public Works	2,281,126	2,281,126	865,693	37.95%	2,283,132	(2,006)
Non-Departmental	8,109,286	8,109,286	121,318	1.50%	7,951,687	157,599
Total General Fund	43,566,792	43,600,732	16,936,947	38.85%	43,419,142	181,590

- Although year-to-date actuals show all departments are spending in line with their budgets, FY13/14 projections indicate expected overages in both Community Services and Police.
 - Anticipated overages in Community Services relate primarily under-budgeting of personnel costs for various position changes discussed in the budget approval.
 - Police Department overages are expected from anticipated overages in overtime and other personnel related costs, as well as higher than budgeted costs for the replacement of mobile video equipment.
 - Fire shows an expected favorable variance due to contract concessions that were not included in the original budget.
- Non-Departmental expenditures consist primarily of the transfer of Measure E sales tax received to the capital projects fund, as well as the subsidy for the Storm Drain and Cemetery operations. Because only a small portion of Measure E revenues have been received, the transfers recorded to date are low. Other fund subsidies are typically recorded toward the end of the fiscal year, when more accurate information is available regarding the subsidies actually required.
 - The projection for Non-Departmental expenditures is under budget primarily as a result of less than expected revenues from Measure E, which is received as revenue into the General Fund and then transferred out to a separate fund. The chart above indicates that this is a favorable variance (less expense to the general fund); however, it is just indicative of less Measure E funding being available for transfer to capital projects.

Table 4**City of Woodland
General Fund Forecast**

General Fund	Anticipated FY2012/13	Unaudited Actual FY2012/13	Difference FY2012/13	Original Budget FY 2013/14	Projected FY 2013/14	Difference FY2013/14
Beginning Fund Balance	\$ 8,581,000	\$ 8,568,000	\$ (13,000)	\$ 9,135,000	\$ 12,405,000	\$ 3,270,000
Revenues	\$ 38,625,000	\$ 40,786,000	\$ 2,161,000	\$ 39,908,363	\$ 40,653,807	\$ 745,445
Expenditures	\$ 38,071,000	\$ 36,949,000	\$ (1,122,000)	\$ 43,566,792	\$ 43,419,112	\$ (147,680)
Change in Fund Balance	\$ 554,000	\$ 3,837,000	\$ 3,283,000	\$ (3,658,429)	\$ (2,765,305)	\$ 893,125
Ending Balance	\$ 9,135,000	\$ 12,405,000	\$ 3,270,000	\$ 5,476,571	\$ 9,639,695	\$ 4,163,125
Less: Reserved Fund Balance						
Internal Loan Repayments	\$ (2,500,000)	\$ (2,500,000)				
Unreserved Fund Balance	\$ 6,635,000	\$ 9,905,000		\$ 5,476,571	\$ 9,639,695	
% of Expenditures	17.43%	26.81%		13.98%	24.59%	
Reserve Policy %	13%	13%		13%	13%	
Reserve Policy \$	\$ 4,949,230	\$ 4,803,370		\$ 5,093,695	\$ 5,095,729	
Balance over (under) Reserve Target	\$ 1,685,770	\$ 5,101,630		\$ 382,875	\$ 4,543,966	

***The annual audit for fiscal year 2012/13 final results is currently underway and expected to be complete in the next month or two; until such time as the audit is complete, actual results from FY2012/13 are considered preliminary.*

Fiscal Year 2012/13 Results:

The preliminary results for fiscal year 2012/13 show that the General Fund ended the year with a net increase in fund balance of \$3.8 million. In preparation of the FY2012/13 budget, a net increase of \$550 thousand was assumed. The originally budgeted net increase in fund balance was attributable to a revenues coming in higher than projected expenses.

During development of the FY2013/14 original budget, projections were made for the ending of FY2012/13; revenues were assumed to be \$38.6 million; actual results came in over that target by \$2.16 million. This variance resulted primarily from better than anticipated sales tax and building permit fee revenues.

Expenditures ended the year under the projection by more than \$1.1 million. The largest savings occurred as a result of unanticipated vacancies throughout the year, as well as additional savings in discretionary supplies and services by the departments.

Total ending fund balance in the General Fund is preliminarily calculated at \$12.4 million for FY2012/13. Part of this fund balance is reserved for repayment of internal loans received by the

General Fund in previous fiscal years and used as part of the balancing plans beginning in FY2007/08. Because the General Fund has borrowed this money, it is appropriate to recognize the future repayment of those loans as a reservation of fund balance, since it will not be available for future discretionary spending. After removing the reserved items from fund balance, the unrestricted fund balance in the General Fund for FY2012/13 is \$9.9 million, or 26.81% of expenditures. The projections for FY2013/14 indicate an unreserved fund balance of \$9.6 million, or 24.59%.

Legislation Details (With Text)

File #: 14-037 Version: 1 Name:
Type: Report of the City Manager Status: Agenda Ready
File created: 1/29/2014 In control: City Council
On agenda: 2/18/2014 Final action:
Title: SUBJECT: Agreement to Expend Unspent Bond Proceeds

Recommendation for Action:

1. As Successor Agency to the Former Woodland Redevelopment (Successor Agency), adopt attached Successor Agency resolution and approve agreement between the City of Woodland (City) and the Successor Agency to expend unspent bond proceeds.
2. As City Council, adopt attached City Council resolution and approve agreement between the City and the Successor Agency to expend unspent bond proceeds.

Sponsors:

Indexes:

Code sections:

Attachments: [SA RESOLUTION](#)
[City Council RESOLUTION](#)
[Agreement Regarding Bond Proceed Expenditures](#)
[Exhibit A](#)
[Exhibit A summary and certifications](#)

Date	Ver.	Action By	Action	Result
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TO: THE HONORABLE MAYOR AND CITY COUNCIL/SUCCESSOR AGENCY TO
THE FORMER WOODLAND REDEVELOPMENT AGENCY

DATE: February 18, 2014

SUBJECT: Agreement to Expend Unspent Bond Proceeds

Recommendation for Action:

1. As Successor Agency to the Former Woodland Redevelopment (Successor Agency), adopt attached Successor Agency resolution and approve agreement between the City of Woodland (City) and the Successor Agency to expend unspent bond proceeds.
2. As City Council, adopt attached City Council resolution and approve agreement between the City and the Successor Agency to expend unspent bond proceeds.

Staff Contact

Wendy Ross, Economic Development - (530) 661-5921, wendy.ross@cityofwoodland.org

Council Goal

Economic Development

Provide for the diversified economic base with a range of employment opportunities by supporting growth of existing businesses, and providing expanded opportunities for new businesses through targeted infrastructure investments and leveraging existing community and regional assets.

Fiscal Responsibility

As Successor Agency, the City is responsible for ensuring funds of the Agency are managed in a fiscally responsible manner and that bond proceeds are spent for the redevelopment purposes set forth at the time the bonds were sold.

Infrastructure

Ensure that the City's physical infrastructure is planned, funded and maintained to provide for current and future community needs, in support of commercial, recreational and environmental requirements and standards, while managing the overall cost consistent with available resources.

Fiscal Impact

No additional funding is requested. Minimal staff time is needed to execute the Agreement. The Bond Proceeds will be expended in a manner consistent with the 2007 Tax Allocation Bond Official Statement and California Redevelopment Law.

Background

In 2007, the former Woodland Redevelopment Agency (Agency) had a project area that refinanced a 1996 Bond and issued additional debt based on future tax increment that would be generated by the Redevelopment Agency. The Bond proceeds will be used solely and exclusively for purposes and projects consistent with the Bond covenants, associated Bond documents and the provisions of the CRL that apply to the expenditure of redevelopment funds. Currently, there is approximately \$4million in unspent bond proceeds.

In June 2011, ABx1 26 was signed into law, dissolving all redevelopment agencies in California. The California Supreme Court upheld the State legislation and the dissolution became effective February 1, 2012. In order to perform the legal obligations of the redevelopment agencies and to wind down agency affairs, each redevelopment agency required a successor agency. On January 10, 2012, City Council approved the City serving as the Successor Agency to the Agency.

Dissolution legislation ABx1 26 was amended by AB 1484 on June 27, 2012. AB 1484 made several changes to AB x1 26 including enabling successor agencies to use unspent bond proceeds for the purposes for which the bond were sold.

Discussion

On May 7, 2013, the Department of Finance ("DOF") completed its Finding of Completion for the City of Woodland Successor Agency. Pursuant to Health and Safety Code Section 34179.7 DOF had verified that the

Successor Agency had made full payment of the amount determined under Health and Safety Code Section 341796 (d) and (e) and Health and Safety Code 34183.5, which is a due diligence review and true-up process to be completed by DOF. Upon receipt of the Finding of Completion, a successor agency is authorized to utilize bond proceeds in a manner consistent with the original bond covenants.

Before a successor agency can use bond proceeds to fund a project, however, it must be an enforceable obligation with another party, that obligation must be included in the Recognized Obligation Payment Schedule (“ROPS”) approved by the Oversight Board and that obligation must be approved by DOF. The Health and Safety Code dictates strict timelines in which a successor agency may submit a ROPS, creating a potential for a delay of more than 180 days between the issuance of a request for a proposal and the start of the project. This type of delay would cause significant issues completing any proposed projects envisioned at the time the bonds were issued.

In order to resolve the timing delays caused by the ROPS process, staff has drafted a master agreement between the City and the Successor Agency to expend unspent bond proceeds (see Attachment-Bond Expenditure Agreement). The agreement creates the enforceable obligation necessary for the ROPS and eliminates the need to itemize every contract related to the use of bond proceeds on the ROPS. If the execution of the master agreement is approved by City Council, the obligation will be included on ROPS 14-15A covering July through December 2014.

The Oversight Board will consider the master agreement and ROPS 14-15A at its meeting on February 26, 2014. Once ROPS 14-15A is approved by DOF, the bond proceeds can then be transferred to the City for expenditure on individual projects.

City Council will approve all contracts related to the completion of projects funded with Agency bond proceeds consistent with the City’s purchasing policies and in accordance with the bond indentures and master agreement.

The use of the master agreement allows the City to move forward in a timely manner without having to wait for the Oversight Board and DOF to review and approve individual projects, which could potentially take several months.

As mentioned above the Bond proceeds will be used solely and exclusively for purposes and projects consistent with the Bond covenants, associated Bond documents and the provisions of the CRL that apply to the expenditure of redevelopment funds. Once approved by the Successor Agency/City Council, Oversight Board and DOF, staff will determine how the funds will be allocated.

Conclusion

Staff recommends the following actions:

3. As Successor Agency to the Former Woodland Redevelopment (Successor Agency), adopt attached Successor Agency resolution and approve agreement between the City of Woodland (City) and the Successor Agency to expend unspent bond proceeds.
4. As City Council, adopt attached City Council resolution and approve agreement between the City and the Successor Agency to expend unspent bond proceeds.

Prepared by: Wendy Ross, Economic Development Manager

Reviewed by: Kim McKinney, Finance Officer

Reviewed by: Ken Hiatt, Community Development Director

A handwritten signature in dark ink, appearing to read "Paul Navazio", with a long horizontal flourish extending to the right.

Paul Navazio, City Manager

Attachments: Bond Expenditure Agreement
Resolution
ROPS 14-15A

RESOLUTION NO. SA-___

**A RESOLUTION OF THE WOODLAND REDEVELOPMENT SUCCESSOR AGENCY
APPROVING A BOND EXPENDITURE AGREEMENT BETWEEN THE CITY OF
WOODLAND AS THE WOODLAND REDEVELOPMENT SUCCESSOR AGENCY
AND THE CITY OF WOODLAND**

WHEREAS, Assembly Bill x1 26 (“AB 26”) was passed by the State Legislature on June 15, 2011, signed by the Governor on June 28, 2011, and later upheld by the California Supreme Court; and,

WHEREAS, Assembly Bill 1484 (“AB 1484”) substantially amending AB 26 was passed by the State Legislature and signed by the Governor on June 27, 2012; and,

WHEREAS, on January 10, 2012, under the authority of AB 26 and by adoption of Resolution No. 6043 the City of Woodland declared itself to be the Successor Agency to the Woodland Redevelopment Agency (“Successor Agency”) upon the Agency’s dissolution on February 1, 2012; and,

WHEREAS, the Woodland Redevelopment Successor Agency Oversight Board (“Oversight Board”) has been established under AB 26 to direct the Successor Agency to take certain actions to wind down the affairs of the Agency and perform other related functions; and,

WHEREAS, on February 18, 2014 and pursuant to Health and Safety Code Section 34178, the Successor Agency and the City of Woodland City Council desire to approve a Bond Expenditure Agreement, subject to approval of the Oversight Board, the text of which is attached hereto as Exhibit “A”; and,

WHEREAS, said Agreement is for the purpose of transferring to the City unexpended redevelopment bond proceeds held by the Successor Agency, to be expended by the City in a manner consistent with applicable bond covenants, and only after the Successor Agency has received its Finding of Completion from the California Department of Finance and any and all other legal requirements have been met; and,

WHEREAS, the Successor Agency received its Finding of Completion from the California Department of Finance on May 7, 2013; and

WHEREAS, pursuant to Health and Safety Code Section 34180(h) the Successor Agency shall submit said Agreement to the Oversight Board and request its approval to enter the Agreement prior to executing; and,

WHEREAS, this matter was considered by the Successor Agency at its regular meeting of February 18, 2014.

NOW, THEREFORE, the Woodland Redevelopment Successor Agency hereby finds and resolves as follows:

SECTION 1. The foregoing recitals and the recitals contained in Exhibit “A” are true and correct.

SECTION 2. The City of Woodland as Successor Agency is hereby permitted to enter the Bond Expenditure Agreement with the City of Woodland as set forth in the attached Exhibit “A”, subject to and conditioned upon review and approval of the Bond Expenditure Agreement by the Oversight Board, and any applicable review of such action by the California Department of Finance.

SECTION 3. All legal prerequisites to the adoption of this Resolution have occurred.

SECTION 4. The Executive Director of the Successor Agency or designee is hereby directed to submit the Bond Expenditure Agreement to the Oversight Board for its consideration, and to take such actions as are necessary and appropriate to implement this decision of the Successor Agency, subject to and conditioned upon the approval of the Bond Expenditure Agreement by the Oversight Board, and any applicable review of such action by the California Department of Finance.

I HEREBY CERTIFY that the foregoing Resolution was adopted by the Woodland Redevelopment Successor Agency at a regular meeting held on the 18th day of February, 2014, by the following vote:

AYES:

NOES:

ABSENT:

Marlin (“Skip”) Davies, Chair
Woodland Redevelopment Successor
Agency

ATTEST:

Ana Gonzalez, Secretary
Woodland Redevelopment Successor Agency

RESOLUTION NO. _____
A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF WOODLAND
APPROVING A BOND EXPENDITURE AGREEMENT BETWEEN THE CITY OF
WOODLAND AS THE WOODLAND REDEVELOPMENT SUCCESSOR AGENCY
AND THE CITY OF WOODLAND

WHEREAS, Assembly Bill x1 26 (“AB 26”) was passed by the State Legislature on June 15, 2011, signed by the Governor on June 28, 2011, and later upheld by the California Supreme Court; and,

WHEREAS, Assembly Bill 1484 (“AB 1484”) substantially amending AB 26 was passed by the State Legislature and signed by the Governor on June 27, 2012; and,

WHEREAS, on January 10, 2012, under the authority of AB 26 and by adoption of Resolution No. 6043 the City of Woodland declared itself to be the Successor Agency to the Woodland Redevelopment Agency (“Successor Agency”) upon the Agency’s dissolution on February 1, 2012; and,

WHEREAS, the Woodland Redevelopment Successor Agency Oversight Board (“Oversight Board”) has been established under AB 26 to direct the Successor Agency to take certain actions to wind down the affairs of the Agency and perform other related functions; and,

WHEREAS, on February 18, 2014 and pursuant to Health and Safety Code Section 34178, the Successor Agency and the City of Woodland City Council desire to approve a Bond Expenditure Agreement, subject to approval of the Oversight Board, the text of which is attached hereto as Exhibit “A”; and,

WHEREAS, said Agreement is for the purpose of transferring to the City unexpended redevelopment bond proceeds held by the Successor Agency, to be expended by the City in a manner consistent with applicable bond covenants, and only after the Successor Agency has received its Finding of Completion from the California Department of Finance and any and all other legal requirements have been met; and,

WHEREAS, the Successor Agency received its Finding of Completion from the California Department of Finance on May 7, 2013; and

WHEREAS, pursuant to Health and Safety Code Section 34180(h) the Successor Agency shall submit said Agreement to the Oversight Board and request its approval to enter the Agreement prior to executing; and,

WHEREAS, this matter was considered by the City Council at its regular meeting of February 18, 2014.

NOW, THEREFORE, the City Council of the City of Woodland hereby finds and resolves as follows:

SECTION 1. The foregoing recitals and the recitals contained in Exhibit “A” are true and correct.

SECTION 2. The City of Woodland is hereby permitted to enter the Bond Expenditure Agreement with the City of Woodland as set forth in the attached Exhibit “A”, subject to and conditioned upon review and approval of the Bond Expenditure Agreement by the Oversight Board, and any applicable review of such action by the California Department of Finance.

SECTION 3. All legal prerequisites to the adoption of this Resolution have occurred.

SECTION 4. The City Manager or designee is hereby directed to take such actions as are necessary and appropriate to implement this decision of the Successor Agency, subject to and conditioned upon the approval of the Bond Expenditure Agreement by the Oversight Board, and any applicable review of such action by the California Department of Finance.

I HEREBY CERTIFY that the foregoing Resolution was adopted by the City Council of the City of Woodland at a regular meeting held on the 18th day of February, 2014, by the following vote:

AYES:

NOES:

ABSENT:

Marlin (“Skip”) Davies, Mayor
City of Woodland

ATTEST:

Ana Gonzalez, City Clerk
City of Woodland

AGREEMENT REGARDING EXPENDITURE OF BOND PROCEEDS

This Agreement Regarding Expenditure of Bond Proceeds (“Agreement”) is entered into on February ____, 2014 by and between the Successor Agency to the Redevelopment Agency of the City of Woodland (“Successor Agency”) and the City of Woodland, a municipal corporation (“City”). The Successor Agency and the City are hereinafter collectively referred to as the “Parties”.

RECITALS

A. Pursuant to authority granted under Community Redevelopment Law (California Health and Safety Code Section 33000 et seq.) (“CRL”), the former Redevelopment Agency of the City of Woodland (“Redevelopment Agency”) had responsibility to implement the Redevelopment Plan for the Woodland Redevelopment Project (the “Redevelopment Plan”) by Ordinance No. 1129, enacted by the City Council of the City of Woodland (the “City Council”).

B. Pursuant to an Indenture of Trust dated as of July 1 2007, and executed by and between the Redevelopment Agency and U.S. Bank, National Association, as Trustee (the “Indenture”), the Agency issued Series 2007A Bonds, in an aggregate principal amount of \$7,295,000 and Series 2007B Bonds in the aggregate principal amount of \$1,680,000 (collectively, the “Bonds”) pursuant to the Redevelopment Plan. Pursuant to Section 3.7 of the Indenture, the Bonds are required to be used in the manner provided by the CRL solely for the purpose of aiding in financing the Redevelopment Project.

C. Pursuant to Resolution No. 6043, adopted by the City Council on January 10, 2012, the City agreed to serve as the Successor Agency to the Redevelopment Agency commencing upon dissolution of the Redevelopment Agency on February 1, 2012, pursuant to Assembly Bill 1X 26 (“AB 26”).

D. Health and Safety Code Section 34191.4(c) provides that once the Finding of Completion has been issued by the Department of Finance, the Successor Agency is authorized to use bond proceeds for the purposes for which the bonds were sold. Further, the Successor Agency may designate the use of and commit indebtedness obligation proceeds that were derived the indebtedness issued for redevelopment purposes on or before December 31, 2010, and that remain available after the satisfaction of enforceable obligations that have been approved on a Recognized Obligation Payment Schedule (“ROPS”) and that are consistent with the indebtedness obligation covenants (“Bond Proceeds”).

E. The Department of Finance issued a finding of completion to the Successor Agency on May 7, 2013.

F. Health and Safety Code Section 34191.4(c) further provides that the expenditure of Bond Proceeds must be listed separately on the applicable ROPS.

F. The Parties desire to enter into this Agreement to use the Bond Proceeds for the purposes identified in and consistent with the Bond covenants and the requirements of the CRL, and to provide for the Successor Agency to transfer the Bond Proceeds to the City to be used for such purposes.

G. The execution of this Agreement was approved in a public meeting by the City Council acting in its capacity as the governing board of the City and in its capacity as the governing board of the Successor Agency on February 18, 2014.

NOW, THEREFORE, in consideration of the mutual covenants, conditions and promises herein contained, the Parties hereby agree as follows.

1. Effective Date. This Agreement shall become effective when this Agreement is deemed effective in accordance with Health and Safety Code 34179 (h).

2. Term. The term of this Agreement shall commence on the Effective Date, and shall continue in effect until the date that all Bond Proceeds are expended in accordance with the requirements of this Agreement.

3. Use of Bond Proceeds. The City agrees that it shall use the Bond Proceeds solely and exclusively for purposes and projects consistent with the Bond covenants, associated Bond documents and the provisions of the CRL that apply to the expenditure of redevelopment funds.

4. Transfer of Bond Proceeds. Upon the Effective Date, the Successor Agency shall transfer the Bond Proceeds to the City, and the City shall deposit such funds into separate Bond Proceeds Accounts for City's use in accordance with the terms, conditions, and purposes set forth in this Agreement.

5. Project Approvals; Environmental Review. This Agreement is not intended to limit in any manner the discretion of the City in connection with the issuance of approvals and entitlements for the projects described in this Agreement, nor to avoid legally required processes attendant to project approval, including without limitation, the undertaking and completion of any required environmental review pursuant to CEQA and NEPA, as applicable, and the review and approval of plans and specifications.

6. Severability. If any term, provision, covenant, or condition set forth in this Agreement is held by the final judgment of a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions, covenants, and conditions shall continue to full force and effect to the extent that the basic intent of the Parties as expressed herein can be accomplished. In addition, the Parties shall cooperate in good faith in an effort to amend or modify this Agreement in a manner such that the purpose of any invalidated or voided provision, covenant, or condition can be accomplished to the maximum extent legally permissible.

7. No Third-Party Beneficiaries; Assignments. Nothing in this Agreement is intended to create any third-party beneficiaries to this Agreement, and no person or entity other than the

Successor Agency and the City, and the permitted successors and assigns of either of them, shall be authorized to enforce the provisions of this Agreement.

8. Further Assurances. Each Party agrees to execute, acknowledge and deliver all additional documents and instruments, and to take such other actions as may be reasonably necessary to carry out the intent of the transactions contemplated by this Agreement.

9. Governing Law. This Agreement shall be governed by and construed in accordance with the laws of the State of California.

10. Counterparts. This Agreement may be executed in counterparts, each of which shall be deemed an original and all of which shall constitute but one and the same instrument.

11. Amendments. This Agreement may be modified or amended, in whole or in part, only by an instrument in writing, executed by the Parties.

IN WITNESS WHEREOF, the Parties have executed this Agreement as of the date first written above.

CITY OF WOODLAND

**SUCCESSOR AGENCY OF THE
WOODLAND REDEVELOPMENT AGENCY**

By: _____
Marlin ("Skip") Davies, Mayor

By: _____
Marlin ("Skip") Davies, Chair

Attest:

By: _____
Ana Gonzalez, City Clerk

Approved as to form:

By: _____
Kara K. Ueda
City Attorney

Exhibit A

\$8,975,000
REDEVELOPMENT AGENCY OF THE CITY OF WOODLAND
TAX ALLOCATION BONDS, SERIES 2007

consisting of:

\$7,295,000
Series 2007A

\$1,680,000
Series 2007B (Federally Taxable)

INTRODUCTION

This introduction contains only a brief summary of certain of the terms of the Series 2007 Bonds being offered, and a full review should be made of the entire Official Statement including the cover page, the table of contents and the appendices for a more complete description of the terms of the Series 2007 Bonds. All statements contained in this introduction are qualified in their entirety by reference to the entire Official Statement. References to, and summaries of provisions of, any other documents referred to herein do not purport to be complete and such references are qualified in their entirety by reference to the complete provisions of such documents.

General; Authority for Issuance

The purpose of this Official Statement, including the cover page, inside cover page and appendices, is to furnish information in connection with the sale and delivery by the Redevelopment Agency of the City of Woodland (the "Redevelopment Agency") of \$8,975,000 aggregate principal amount of Redevelopment Agency of the City of Woodland Tax Allocation, Series 2007, consisting: of \$7,295,000 principal amount of Series 2007A (the "Series 2007A Bonds") and \$1,680,000 principal amount of Series 2007B Bonds (Federally Taxable) (the "Taxable Series 2007B Bonds" and together with the Series 2007A Bonds, the "Series 2007 Bonds").

The Series 2007 Bonds are issued pursuant to the provisions of the Community Redevelopment Law of the State of California, constituting Part 1 of Division 24 of the Health and Safety Code (the "Redevelopment Law"). The Series 2007 Bonds will be issued pursuant to an Indenture, dated as of July 1, 2007 (the "2007 Indenture"), by and between the Redevelopment Agency and U.S. Bank National Association (the "Trustee").

Purpose

Series 2007A Bonds. The proceeds of the Series 2007A Bonds will be used by the Redevelopment Agency to: (i) refund \$2,060,000 outstanding principal amount of the Redevelopment Agency's Woodland Redevelopment Project, 1996 Tax Allocation Bonds; (ii) finance various redevelopment activities within the Redevelopment Agency's Woodland Redevelopment Project Area (the "Project Area"); (iii) fund a deposit into the Reserve Account for the Series 2007 Bonds; and (iv) pay the costs associated with the issuance and delivery of the Series 2007A Bonds.

Taxable Series 2007B Bonds. The proceeds of the Taxable Series 2007B Bonds will be used by the Redevelopment Agency to: (i) finance various redevelopment activities in the Project Area; (ii) fund a deposit into the Reserve Account for the Series 2007 Bonds; and (iv) pay the costs associated with the issuance and delivery of the Taxable Series 2007B Bonds.

See "PLAN OF FINANCE," "ESTIMATED SOURCES AND USES OF FUNDS" and "THE PROJECT AREA—Summary of Development." The Series 2007 Bonds will mature in the years and amounts and bear interest at the rates set forth on the inside cover page.

REDEVELOPMENT AGENCY OF THE CITY OF WOODLAND
Woodland Redevelopment Project
Tax Allocation Bonds, Series 2007A
Tax Allocation Bonds, Series 2007B (Federally Taxable)

CERTIFICATE OF THE REDEVELOPMENT AGENCY
REGARDING THE PRELIMINARY OFFICIAL STATEMENT

The undersigned hereby states and certifies:

1. That she is the duly appointed, qualified and acting Treasurer/Controller of the Redevelopment Agency of the City of Woodland (the "Redevelopment Agency") and as such, is familiar with the facts herein certified and is authorized and qualified to certify the same;

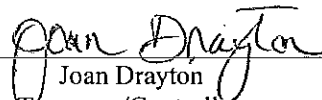
2. That there has been delivered to Brandis Tallman LLC (the "Underwriter") of the captioned Bonds, a Preliminary Official Statement, relative to the captioned Bonds, dated July 5, 2007 (including the cover page and all appendices thereto, in printed form and in electronic form in all material respects consistent with such printed form, the "Preliminary Official Statement"), which the Redevelopment Agency deems final as of its date for purposes of Rule 15c2-12 promulgated under the Securities Exchange Act of 1934, as amended ("Rule 15c2-12"), except for information permitted to be omitted therefrom by Rule 15c2-12; and

3. The Redevelopment Agency hereby approves the use and distribution by the Underwriter of the Preliminary Official Statement.

Dated: July 5, 2007

REDEVELOPMENT AGENCY OF THE CITY OF
WOODLAND

By: _____


Joan Drayton
Treasurer/Controller

REDEVELOPMENT AGENCY OF THE CITY OF WOODLAND
Woodland Redevelopment Project
Tax Allocation Bonds, Series 2007A
Tax Allocation Bonds, Series 2007B (Federally Taxable)

CERTIFICATE OF THE CITY
REGARDING THE PRELIMINARY OFFICIAL STATEMENT

The undersigned hereby states and certifies:

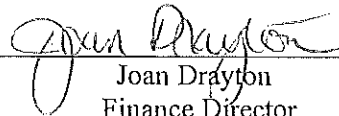
1. That she is the duly qualified and acting Finance Director of the City of Woodland (the "City") and as such, is familiar with the facts herein certified and is authorized and qualified to certify the same; and

2. That there has been delivered to Brandis Tallman LLC (the "Underwriter") of the captioned Bonds (the "Underwriter"), a Preliminary Official Statement, relative to the captioned Bonds, dated July 5, 2007 (including the cover page through all appendices thereto, in printed form and in electronic form in all material respects consistent with such printed form, the "Preliminary Official Statement"), which with respect to the information contained in the Preliminary Official Statement under the caption "THE CITY," and contained in APPENDIX C—"GENERAL INFORMATION CONCERNING THE CITY OF WOODLAND" does not contain any untrue statement of a material fact or omitted or omits to state a material fact required to be stated therein or necessary in order to make the statements therein, in light of the circumstances under which they were made, not misleading.

Dated: July 5, 2007

CITY OF WOODLAND

By: _____


Joan Drayton
Finance Director

Redevelopment Projects

A portion of the remaining proceeds of the Series 2007A Bonds and proceeds of the Taxable Series 2007B Bonds will be used by the Redevelopment Agency to finance certain redevelopment activities within the Project Area. See "THE PROJECT AREA-Summary of Development-Redevelopment Agency Projects."

Estimated Sources and Uses of Funds

The anticipated sources and uses of funds relating to the Series 2007 Bonds are as follows:

	<u>Series 2007A Bonds</u>	<u>Taxable Series 2007B Bonds</u>	<u>Total</u>
Sources:			
Principal Amount of the Series 2007 Bonds	\$7,295,000.00	\$1,680,000.00	\$8,975,000.00
Transfer from Prior Bonds Funds	189,405.02	-	189,405.02
Less: Net Original Issue Discount	<u>(144,872.55)</u>	-	<u>(144,872.55)</u>
TOTAL SOURCES	\$7,339,532.47	\$1,680,000.00	\$9,019,532.47
Uses:			
Deposit to Escrow Fund	\$2,124,951.00	-	\$2,124,951.00
Deposit to Series 2007A Project Account ⁽¹⁾	4,409,640.41	-	4,409,640.41
Deposit to Taxable Series 2007B Project Account	-	\$1,500,000.00	1,500,000.00
Deposit to Reserve Account	483,084.17	110,890.83	593,975.00
Costs of Issuance ⁽²⁾	267,144.39	49,789.17	316,933.56
Underwriter's Discount	<u>54,712.50</u>	<u>19,320.00</u>	<u>74,032.50</u>
TOTAL USES	\$7,339,532.47	\$1,680,000.00	\$9,019,532.47

- ⁽¹⁾ To be used to finance redevelopment activities in the Project Area. See "THE PROJECT AREA-Summary of Development."
- ⁽²⁾ Includes fees and expenses of Bond Counsel and Disclosure Counsel, fees and expenses of the Trustee, the Financial Advisor, the Fiscal Consultant and the Verification Agent, printing costs, rating agency fees, the bond insurance premium, and other costs related to the issuance of the Series 2007 Bonds.

Debt Service Schedule

The following table shows scheduled semi-annual debt service on the Series 2007 Bonds. See also "PROJECT AREA-Projected Tax Increment Revenues and Debt Service Coverage-Table 7."

The information in Table 3 is based on land use designations as provided by Yolo County Office of the Auditor Controller through tax roll data, however, County land use designations do not necessarily parallel City land use and zoning designations. Unsecured and SBE non-unitary values are connected with parcels that are already accounted for in other categories.

Table 3
Redevelopment Agency of the City of Woodland
Woodland Redevelopment Project
Land Uses by Category

<u>Land Use</u>	<u>Number of Parcels</u>	<u>2006-07 Secured Assessed Value</u>	
		<u>Amount</u>	<u>%</u>
Commercial	297	\$124,558,172	38.31
Industrial	43	78,181,306	24.04
Residential	548	77,457,220	23.82
Vacant	69	7,998,582	2.46
Unknown/Other	65	4,733,290	1.46
TOTAL SECURED	1,022	\$292,928,580	90.09%
Unsecured/State Assessed		32,236,277	9.91
TOTAL		\$325,164,857	100.00%

Source: *Redevelopment Agency*.

Summary of Development

The primary objective of the Redevelopment Plan is to correct infrastructure and traffic circulation deficiencies, eliminate and prevent the reoccurrence of blighted conditions and foster development within the Project Area through the construction of certain public roadway, sewer and landscaping improvements.

To date the Redevelopment Agency has been involved in several major projects, including, the rehabilitation of the historic Hotel Woodland, including the development of 76 low and very low income residential units in the upper floors and restoration of the ground floor lobby for retail uses; the East Street landscaping project, which included the construction and installation of sidewalks, certain sewer and storm drain improvements and historic lighting fixtures; and the development of the Wiseman Building a Class A office facility located on Main Street.

The following is a description of the current and future development expected to occur within the Project Area. The Redevelopment Agency can give no assurances that such future development will actually occur. It is expected that additional public funds will be needed over the next several years in order to complete some or all of the future projects described below.

Downtown Façade and Sign Conversion Program and Historic Rehabilitation and Reuse Loan Program. These programs, funded by the federal community development block grant program, are part of a comprehensive approach to revitalize the downtown area by providing rebates to property owners to upgrade the appearance of building façades. The Downtown Façade and Sign Conversion Program has provided 19 grants to date in the aggregate amount of \$43,770, of which three were made in calendar year 2007.

Main Street Beautification and Infrastructure Project. This project consists of increasing the capacity of sewer treatment facilities to accommodate higher density development in the downtown area of the City. This project will include improvements to the streetscape such as new lighting, landscaping, crosswalks, and decorative features. An infrastructure analysis study and streetscape design study is expected to commence in fall 2007. Construction of the improvements is expected to commence after the required studies are submitted to and approved by the City Planning Commission.

City Center Lofts. This three-story, 170 unit market rate residential condominium development is located at 333 Main Street and is being developed by CSI Engineering, Inc. This project is expected to include approximately 25,000 square feet of ground floor commercial space, featuring an interior courtyard and outdoor restaurant seating. Development plans have been submitted to the City for review and the City is conducting a focused environmental impact review for traffic and historical impacts. Construction of this project is expected to commence in late 2008.

Tovar Mixed Use Project. This project is located at 304 Main Street and consists of approximately 44,100 square feet of retail, office and commercial space in a three-story building. This project is being developed by a private party and is expected to include approximately 4,800 square feet of retail space, approximately 14,800 square feet of office space and 10 residential market rate lofts ranging in size from 890 to 1,500 square feet. This project was approved by the City Planning Commission in February 2007 and construction is expected to commence in 2008.

Capitol Hotel. The Capitol Hotel, located at 601 Main Street, was originally constructed in 1868 in an Italianate style, with bracketed cornices, ornamental friezes and arched windows. This project is being developed by Pilot Properties and consists of the rehabilitation and seismic retrofit of this historic three-story, approximately 11,260 square foot structure, and development of approximately 5,400 square feet of retail and restaurant space on the first floor and the addition of approximately 3,850 square feet of additional commercial/retail space, the development of approximately 4,850 square feet of office space on the second floor, four units of market rate residential housing on the third floor, and construction of a surface level parking lot. Construction of this project commenced in April 2007 and is expected to be completed in late 2007.

Porter Building. This three-story approximately 30,000 square foot building, located at 511 Main Street, was originally constructed in 1914 in the Renaissance Revival style and features ornamental parapets and arched entrances. The developers of this project are in the process of completing the design and architectural drawings and applying for State historic tax credits. The development plan for this project includes the renovation and rehabilitation of this building for retail and office uses. Construction of this project is expected to commence in late 2007.

Rite Aid Drug Store. An approximately 17,000 square foot, one-story drug store is being developed by Petrovitch Development Company on the corner of East and Main Streets. This development, which has been submitted to the City Planning Commission for review, is being designed to complement the historic features found in the downtown area of the City. Construction of this project is expected to commence in 2008 and be completed in 2009.

Multiplex Theater. This project consists of the development of a multi-screen movie theater, retail and restaurant complex and an approximately 500-space, multi-level parking structure by Petrovitch Development Company. It is expected that construction of this project will be coordinated with and commence upon construction of the expansion of the courthouse described below.

Courthouse Relocation and Expansion of Yolo County Court Facilities. This project consists of the aggregation of approximately 2.5 acres and the construction of an approximately 170,000 square foot courthouse to accommodate 16 new courtrooms. Parking for this facility is expected to be available in the Multiplex theater described above. The Redevelopment Agency will assist the County in the acquisition of parcels as necessary. The Judicial Council of the State has identified this project as a high priority in the list of capital outlay projects for its Fiscal Year 2008-09 funding cycle.

Casa del Sol. Community Housing Opportunities Corporation in coordination with the Redevelopment Agency is rehabilitating an approximately 12.6 acre mobile home park. This project includes the construction and installation of improvements to infrastructure, including roads, water and sewer improvements, and the rehabilitation or acquisition of 156 mobile homes for very-low, low and moderate

income households. Construction of the infrastructure project is expected to commence in summer 2007 and be completed in late 2008.

Rail America Relocation. The Redevelopment Agency entered into a Memorandum of Understanding with Rail America, Union Pacific, John Laing Homes and the City for the relocation of Rail America operations from an approximately 27 acre site on East Street. This project consists of the relocation of a rail spur currently operated by Rail America to another site within the City. The Redevelopment Agency will assist in the relocation of the rail spur and the construction and installation of necessary improvements at the relocation site. It is expected that a site plan for the redevelopment of this site will be submitted to the City in late 2007, with construction commencing in early 2008.

Principal Taxpayers

The top 10 taxpayers within the Project Area for Fiscal Year 2006-07 own property with an aggregate value of \$95,202,482, representing approximately 29.3% of the assessed value within the Project Area for Fiscal Year 2006-07.

Table 4 lists the principal taxpayers and primary land uses in the Project Area based on the Fiscal Year 2006-07 assessed value.

Table 4
Redevelopment Agency of the City of Woodland
Woodland Redevelopment Project
Principal Taxpayers
Fiscal Year 2006-07

<u>Assessee</u>	<u>No. of Parcels</u>	<u>Type of Use</u>	<u>Secured</u>	<u>Unsecured</u>	<u>Total Value</u>	
					<u>Amount⁽¹⁾</u>	<u>Percent</u>
Pacific Coast Producers ⁽²⁾	2	Industrial	\$55,787,934	\$0	\$55,787,934	17.16%
Martin R. Horn Trust, <i>et al.</i> ⁽²⁾	1	Commercial	5,644,833	0	5,644,833	1.74
Anthony Wheeler Trust	2	Commercial	5,560,397	0	5,560,397	1.71
Adams Warehouse Company ⁽²⁾	1	Industrial	5,280,111	0	5,280,111	1.62
WC Investors LLC	2	Commercial	5,169,900	0	5,169,900	1.59
Richard A. Markstein Trust, <i>et al.</i>	1	Industrial	4,133,312	0	4,133,312	1.27
Johnson Pantattoni, <i>et al.</i>	1	Commercial	3,538,291	0	3,538,291	1.09
Nugget Markets Inc.	2	Unsecured	0	3,438,226	3,438,226	1.06
Tower Energy Group	2	Commercial	3,334,478	0	3,334,478	1.03
Woodland Business Center LLC	3	Commercial	3,315,000	0	3,315,000	1.02
SUBTOTAL	17		91,764,256	3,438,226	95,202,482	29.28
All Others	1,005	Various	201,164,324	28,798,051	229,962,375	70.72
TOTAL	1,022		\$292,928,580	\$32,236,277	\$325,165,857	100.00%

(1) Based on ownership of locally-assessed secured and unsecured property.

(2) Each of these assesseees have outstanding appeals.

Sources: *Fraser & Associates based upon records of the County Assessor's Office 2006-07 Equalized Local Assessment Roll.*

Tax Rates

Within the State tax rates vary from area to area, as well as within a community and a project area. The tax rate for any particular parcel is based upon the jurisdictions levying the tax rate for the area (a "Tax Rate Area") in which the parcel is located. The tax rate applied to incremental taxable values consist of two components: (i) the general levy rate which may not exceed \$1.00 per \$100 of taxable values in accordance with Article XIII A of the State Constitution and (ii) the over-ride tax rate that is levied to pay voter approved indebtedness or contractual obligations that existed prior to the enactment of Proposition XIII. See "LIMITATION ON TAX REVENUES" and "CERTAIN RISKS TO BONDHOLDERS-Reduction in Assessed Value."

EXHIBIT A

I. Description of Project

The Primary objective of the Redevelopment Plan is to correct infrastructure and traffic circulation deficiencies, eliminate and prevent the reoccurrence of blighted conditions and foster development within the Project Area through the construction of certain public roadway, sewer and landscaping improvements.

II. Description of Use of Project

A. Use by any person other than governmental units or members of public generally

NONE

B. Payments to be made after date hereof in respect of above use

NONE

Legislation Details (With Text)

File #: 14-067 Version: 1 Name:
Type: Report of the City Manager Status: Agenda Ready
File created: 2/14/2014 In control: City Council
On agenda: 2/18/2014 Final action:
Title: SUBJECT: Consideration of Resolution No. ____ approving a proposed administrative budget for the period of July 1, 2014 through December 31, 2014, pursuant to Health and Safety Code Section 34177 (j)

Recommendation for Action:

Staff recommends that the Successor Agency adopt Resolution No. ____ approving and adopting the proposed Administrative Budget pursuant to Health and Safety Code Section 34177 (j).

Sponsors:

Indexes:

Code sections:

Attachments: [SA Resolution Admin Budget](#)
[Administrative Budget](#)

Date	Ver.	Action By	Action	Result
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TO: THE HONORABLE CHAIR AND MEMBERS OF THE SUCCESSOR AGENCY TO
THE DISSOLVED WOODLAND REDEVELOPMENT AGENCY

DATE: February 18, 2014

SUBJECT: Consideration of Resolution No. ____ approving a proposed administrative budget for the period of July 1, 2014 through December 31, 2014, pursuant to Health and Safety Code Section 34177 (j)

Recommendation for Action:

Staff recommends that the Successor Agency adopt Resolution No. ____ approving and adopting the proposed Administrative Budget pursuant to Health and Safety Code Section 34177 (j).

Staff Contact

Wendy Ross, Economic Development Manager-530/661-5921, wendy.ross@cityofwoodland.org

Fiscal Impact

The six month budget of \$125,000 is intended to cover costs of administering the Successor Agency; however, the most recent Recognized Obligation Payment Schedule indicates that there will not be sufficient funds to

cover the Agency administrative costs. Staff is reviewing alternative options and funding sources that will be discussed as part of the FY2014/15 budget review process.

Background

Following dissolution of the Redevelopment Agency of the City of Woodland (“Redevelopment Agency”), the City elected to become the Successor Agency to the Redevelopment Agency by Resolution No. 6043, dated January 10, 2012 (the “Successor Agency”). Pursuant to Health and Safety Code Section 34173 (b), the Successor Agency is now a separate legal entity from the City. One of the responsibilities of the Successor Agency is to prepare a proposed Administrative Budget covering each six month period, and submit it to the Successor Agency’s Oversight Board for approval.

Discussion

One of the responsibilities of the Successor Agency is to prepare a proposed Administrative Budget for each six month fiscal period. According to Health and Safety Code Section 34177 (j), the Administrative budget is to include all of the following: (i) estimated amounts for the Successor Agency’s administrative costs for the upcoming six-month fiscal period; (ii) proposed sources of payment for the costs identified in (i); and (iii) proposals for arrangements for administrative and operation services provided by a city, county, city and county, or other entity.

The proposed Administrative Budget is to be submitted to the Successor Agency’s Oversight Board for approval (“Approved Administrative Budget”). Under Health and Safety Code Section 34177(k), the Successor Agency is to provide administrative cost estimates, from the Approved Administrative Budget, that are to be paid from property tax revenues deposited in the Redevelopment Property Tax Trust Fund, to the County Auditor-Controller for the upcoming six-month fiscal period.

The Woodland Successor Agency is permitted \$250,000 per fiscal year for administrative costs related to the operations of the Successor Agency. The budget is for one half of the annual allowance. The most recent Recognized Obligation Payment Schedule (ROPS) indicates that there will not be sufficient available funds distributed to the Successor Agency to cover administrative costs. Staff is reviewing other options for funding, which will be analyzed during the fiscal year 2014/15 budget.

Conclusion

Staff recommends that the Successor Agency adopt Resolution No.____ approving and adopting the proposed Administrative Budget pursuant to Health and Safety Code Section 34177(j).

Prepared by: Wendy Ross, Economic Development Manager

Reviewed by: Ken Hiatt, Community Development Director



Paul Navazio, City Manager

Attachment: Resolution
Administrative Budget

RESOLUTION NO. ____

**A RESOLUTION OF THE SUCCESSOR AGENCY TO THE DISSOLVED
WOODLAND REDEVELOPMENT AGENCY APPROVING AND
ADOPTING A PROPOSED ADMINISTRATIVE BUDGET FOR THE
PERIOD OF JULY THROUGH DECEMBER 2014,
PURSUANT TO HEALTH AND SAFETY CODE SECTION 34177(j)**

WHEREAS, pursuant to Health and Safety Code Section 34173(d), the City of Woodland elected to become the Successor Agency to the Redevelopment Agency of the City of Woodland ("Successor Agency") by Resolution No. 6043 on January 10, 2012, and pursuant to Health and Safety Code Section 34173 (b), the Successor Agency is now a separate legal entity from the City; and

WHEREAS, Health and Safety Code Section 34177 (j) requires the Successor Agency to prepare a proposed Administrative Budget covering each 6-month period, and submit it to the Oversight Board for approval; and

WHEREAS, pursuant to Health and Safety Code Section 34177 (k), upon approval of the Administrative Budget by the Oversight Board, the Successor Agency is required to provide administrative cost estimates, from the approved administrative budget, that are to be paid from property tax revenues deposited in the Redevelopment Property Tax Trust Fund, to the County Auditor-Controller for each fiscal period covered by the Administrative Budget; and

WHEREAS, all other legal prerequisites to the adoption of this Resolution have occurred.

**NOW, THEREFORE, THE SUCCESSOR AGENCY TO THE WOODLAND
REDEVELOPMENT AGENCY DOES HEREBY RESOLVE AS FOLLOWS:**

Section 1. Recitals. The Recitals set forth above are true and correct and are incorporated into this Resolution by this reference.

Section 2. Approval of Proposed Administrative Budget. The Successor Agency hereby approves and adopts the proposed Administrative Budget covering the period from July 1, 2014 through December 31, 2014, in substantially the form attached to this Resolution as Exhibit A, as required by Health and Safety Code Section 34177.

Section 3. Transmittal of Proposed Administrative Budget. The City Manager, on behalf of the Successor Agency, is hereby authorized and directed to take any action necessary to carry out the purposes of this Resolution and comply with applicable law regarding the proposed Administrative Budget, including submitting the proposed Administrative Budget to the Successor Agency's Oversight Board, and upon Oversight Board approval of the Administrative Budget, the provision of administrative cost estimates, from the approved Administrative Budget, that are to be paid from property tax revenues deposited in the Redevelopment Property Tax Trust Fund, to the Yolo County Auditor-Controller.

Section 4. Effectiveness. This Resolution shall take effect immediately upon its adoption.

PASSED, APPROVED AND ADOPTED at a regular meeting of the Successor Agency to the Woodland Redevelopment Agency on the ____ day of February, 2014, by the following vote:

AYES:
NOES:
ABSTAIN:
ABSENT:

Chair

ATTEST:

Secretary

CITY OF WOODLAND
RDA Successor Agency Administration Budget
Fiscal Year 2014/15

Description	July 2014 - December 2014	January 2015 - June 2015	Total
Salary	\$ 36,928.00	\$ 36,928.00	\$ 73,856.00
Vacation Buyout	\$ 1,000.00	\$ 1,000.00	\$ 2,000.00
Admin Buyout	\$ 750.00	\$ 750.00	\$ 1,500.00
Deferred Comp City Match	\$ 665.50	\$ 665.50	\$ 1,331.00
Workers Comp/Liability Insurance	\$ 3,247.00	\$ 3,247.00	\$ 6,494.00
Retirement	\$ 8,771.00	\$ 8,771.00	\$ 17,542.00
Retirement Health Savings Plan	\$ 30.00	\$ 30.00	\$ 60.00
Lifef/Vision/Dental/Retiree Health	\$ 4,999.50	\$ 4,999.50	\$ 9,999.00
Health/Life/Vision/Dental Premiums	\$ 5,685.50	\$ 5,685.50	\$ 11,371.00
Unemployment Insurance	\$ 464.00	\$ 464.00	\$ 928.00
Medicare	\$ 538.00	\$ 538.00	\$ 1,076.00
Contract Services	\$ 57,447.50	\$ 57,447.50	\$ 114,895.00
Tech Service Chargebacks	\$ 4,474.00	\$ 4,474.00	\$ 8,948.00
	\$ 125,000.00	\$ 125,000.00	\$ 250,000.00

Legislation Details (With Text)

File #: 14-038 Version: 1 Name:
Type: Report of the City Manager Status: Agenda Ready
File created: 1/30/2014 In control: City Council
On agenda: 2/18/2014 Final action:
Title: SUBJECT: Consideration of approval of Recognized Obligation Payment Schedule for the period of July 2014 through December 2014, pursuant to Health and Safety Code Section 34177

Recommendation for Action:

It is recommended that the Successor Agency adopt Resolution No. ____ approving and adopting the Recognized Obligation Payment Schedule ("ROPS") covering the period of July 1, 2014 through December 31, 2014.

Sponsors:

Indexes:

Code sections:

Attachments: [RESOLUTION](#)
[Woodland ROPS 14-15A](#)

Date	Ver.	Action By	Action	Result
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TO: THE HONORABLE CHAIR AND MEMBERS OF THE SUCCESSOR AGENCY TO
THE DISSOLVED WOODLAND REDEVELOPMENT AGENCY

DATE: February 18, 2014

SUBJECT: Consideration of approval of Recognized Obligation Payment Schedule for the period of July 2014 through December 2014, pursuant to Health and Safety Code Section 34177

Recommendation for Action:

It is recommended that the Successor Agency adopt Resolution No. ____ approving and adopting the Recognized Obligation Payment Schedule ("ROPS") covering the period of July 1, 2014 through December 31, 2014.

Staff Contact

Wendy Ross, Economic Development Manager-530/661-5921, wendy.ross@cityofwoodland.org

Fiscal Impact

No City or Successor Agency funds are involved with the adoption of the ROPS. The ROPS simply lists existing enforceable obligations to be paid by the Successor Agency. Only payments listed on the approved

ROPS and approved by the State Department of Finance (DOF) may be made by the Successor Agency.

Background

Following the dissolution of the Redevelopment Agency of the City of Woodland (“Agency”), the City elected to become the Successor Agency by Resolution No. 6043, dated January 10, 2012 (the “Successor Agency”). Pursuant to Health and Safety Code Section 34173 (b), the Successor Agency is now a separate legal entity from the City. One of the responsibilities of the Successor Agency is to prepare a Recognized Obligation Payment Schedule (“ROPS”), which sets forth the nature, amount, and source (s) of payment of all “enforceable obligations” of the Agency (as defined by law) to be paid by the Successor Agency. The ROPS is to be prepared before each six-month fiscal period, covering the forward-looking six month fiscal period. The ROPS for the period of July 1, 2014 through December 31, 2014 (“ROPS 14-15A”) is required to be submitted to DOF, the State Controller’s Office and the County Auditor-Controller by March 1, 2014. Only payments required pursuant to the ROPS may be made by the Successor Agency.

Discussion/Analysis

Pursuant to Health and Safety Code Section 34177(l), the Successor Agency, is required to prepare a ROPS covering the period of July 1, 2014 through December 31, 2014 (“ROPS 14-15A”). The ROPS is then to be submitted to the Oversight Board for approval. The approved ROPS is then submitted to the County Auditor-Controller, the State Controller’s Office and DOF, and posted on the City’s website. Pursuant to Health and Safety Code Section 34177(l), the approved ROPS 14-15A is required to be submitted to DOF, State Controller’s Office and the County Auditor-Controller by March 1, 2014.

Following receipt of the ROPS 14-15A, DOF has 45 days to make its determination of the enforceable obligations and notify the Successor Agency.

Conclusion

Staff recommends that the Successor Agency adopt Resolution No. ____ approving and adopting the Recognized Obligation Payment Schedule covering the period of July 1, 2014 through December 31, 2014.

Prepared by: Wendy Ross, Economic Development Manager

Reviewed by: Ken Hiatt, Community Development Director



Paul Navazio, City Manager

Attachment: Resolution
ROPS 14-15A

RESOLUTION NO. ____

A RESOLUTION OF THE SUCCESSOR AGENCY TO THE WOODLAND REDEVELOPMENT AGENCY APPROVING AND ADOPTING A RECOGNIZED OBLIGATION PAYMENT SCHEDULE PURSUANT TO HEALTH AND SAFETY CODE SECTION 34177(l)(2)(A) AND (B)

WHEREAS, the Successor Agency to the Woodland Redevelopment Agency (“Successor Agency”) is the successor agency to the former Woodland Redevelopment Agency, and is responsible for the wind-down of the affairs of the former Redevelopment Agency following dissolution of the former Redevelopment Agency; and

WHEREAS, Health and Safety Code Section 34177(l)(2)(A) requires the Successor Agency to prepare a recognized obligation payment schedule (“ROPS”) covering each six-month period, and submit it to the Successor Agency’s Oversight Board for approval; and

WHEREAS, the Successor Agency has prepared a ROPS covering the period of July 1, 2014 through December 31, 2014 (“ROPS 14-15A”); and

WHEREAS, Health and Safety Code Section 34177(l)(2)(B) requires the Successor Agency to submit the Oversight Board approved ROPS 14-15A, covering the period from July 1, 2014 through December 31, 2014, to the County Administrative Officer, the County Auditor-Controller, and the California Department of Finance by March 1, 2014; and

WHEREAS, all other legal prerequisites to the adoption of this Resolution have occurred.

NOW, THEREFORE, THE SUCCESSOR AGENCY TO THE WOODLAND REDEVELOPMENT AGENCY DOES HEREBY RESOLVE AS FOLLOWS:

Section 1. Recitals. The Recitals set forth above are true and correct and are incorporated into this Resolution by this reference.

Section 2. CEQA Compliance. The approval of the draft of the ROPS 14-15A through this Resolution does not commit the Successor Agency to any action that may have a significant effect on the environment. As a result, such action does not constitute a project subject to the requirements of the California Environmental Quality Act.

Section 3. Approval of ROPS. The Successor Agency hereby approves and adopts the ROPS 14-15A, in substantially the form attached to this Resolution as Exhibit A.

Section 4. Transmittal of the ROPS for July 1, 2014 through December 31, 2014 to the Oversight Board. The City Manager is hereby authorized and directed to take any action necessary to carry out the purposes of this Resolution and comply with applicable law regarding the ROPS covering the period of July 1, 2014 through December 31, 2014, including without limitation submitting the ROPS 14-15A to the Oversight Board for approval.

PASSED, APPROVED AND ADOPTED at a regular meeting of the Successor Agency to the Woodland Redevelopment Agency on the _____ day of February, 2014, by the following votes:

AYES:

NOES:

ABSTAIN:

ABSENT:

ATTEST:

Chair, Woodland Successor Agency

Successor Agency Secretary

Recognized Obligation Payment Schedule (ROPS 14-15A) - Summary

Filed for the July 1, 2014 through December 31, 2014 Period

Name of Successor Agency:	Woodland
Name of County:	Yolo

Current Period Requested Funding for Outstanding Debt or Obligation		Six-Month Total
Enforceable Obligations Funded with Non-Redevelopment Property Tax Trust Fund (RPTTF) Funding		
A	Sources (B+C+D):	\$ 4,023,854
B	Bond Proceeds Funding (ROPS Detail)	4,023,854
C	Reserve Balance Funding (ROPS Detail)	-
D	Other Funding (ROPS Detail)	-
E	Enforceable Obligations Funded with RPTTF Funding (F+G):	\$ 2,813,768
F	Non-Administrative Costs (ROPS Detail)	2,688,768
G	Administrative Costs (ROPS Detail)	125,000
H	Current Period Enforceable Obligations (A+E):	\$ 6,837,622

Successor Agency Self-Reported Prior Period Adjustment to Current Period RPTTF Requested Funding		
I	Enforceable Obligations funded with RPTTF (E):	2,813,768
J	Less Prior Period Adjustment (Report of Prior Period Adjustments Column S)	(0)
K	Adjusted Current Period RPTTF Requested Funding (I-J)	\$ 2,813,768

County Auditor Controller Reported Prior Period Adjustment to Current Period RPTTF Requested Funding		
L	Enforceable Obligations funded with RPTTF (E):	2,813,768
M	Less Prior Period Adjustment (Report of Prior Period Adjustments Column AA)	-
N	Adjusted Current Period RPTTF Requested Funding (L-M)	2,813,768

Certification of Oversight Board Chairman:
Pursuant to Section 34177(m) of the Health and Safety code, I hereby
certify that the above is a true and accurate Recognized Obligation
Payment Schedule for the above named agency.

_____	_____
Name	Title
/s/ _____	
Signature	Date

Recognized Obligation Payment Schedule (ROPS) 14-15A - ROPS Detail July 1, 2014 through December 31, 2014 (Report Amounts in Whole Dollars)									
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Recognized Obligation Payment Schedule (ROPS) 14-15A - ROPS Detail July 1, 2014 through December 31, 2014 (Report Amounts in Whole Dollars)									
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Recognized Obligation Payment Schedule (ROPS) 14-15A - ROPS Detail July 1, 2014 through December 31, 2014 (Report Amounts in Whole Dollars)									
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Recognized Obligation Payment Schedule (ROPS) 14-15A - ROPS Detail July 1, 2014 through December 31, 2014 (Report Amounts in Whole Dollars)									
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Recognized Obligation Payment Schedule (ROPS) 14-15A - Report of Cash Balances
(Report Amounts in Whole Dollars)

Pursuant to Health and Safety Code section 34177(l), Redevelopment Property Tax Trust Fund (RPTTF) may be listed as a source of payment on the ROPS, but only to the extent no other funding source is available or when payment from property tax revenues is required by an enforceable obligation.

A	B	C	D	E	F	G	H	I
	Cash Balance Information by ROPS Period	Fund Sources						Comments
		Bond Proceeds		Reserve Balance		Other	RPTTF	
		Bonds Issued on or before 12/31/10	Bonds Issued on or after 01/01/11	Prior ROPS period balances and DDR balances retained	Prior ROPS RPTTF distributed as reserve for next bond payment	Rent, Grants, Interest, Etc.	Non-Admin and Admin	
ROPS 13-14A Actuals (07/01/13 - 12/31/13)								
1	Beginning Available Cash Balance (Actual 07/01/13) Note that for the RPTTF, 1 + 2 should tie to columns J and O in the Report of Prior Period Adjustments (PPAs)	4,195,142					-	
2	Revenue/Income (Actual 12/31/13) Note that the RPTTF amounts should tie to the ROPS 13-14A distribution from the County Auditor-Controller during June 2013						426,835	
3	Expenditures for ROPS 13-14A Enforceable Obligations (Actual 12/31/13) Note that for the RPTTF, 3 + 4 should tie to columns L and Q in the Report of PPAs	96,888					426,835	
4	Retention of Available Cash Balance (Actual 12/31/13) Note that the RPTTF amount should only include the retention of reserves for debt service approved in ROPS 13-14A							
5	ROPS 13-14A RPTTF Prior Period Adjustment Note that the RPTTF amount should tie to column S in the Report of PPAs.	No entry required					0	
6	Ending Actual Available Cash Balance C to G = (1 + 2 - 3 - 4), H = (1 + 2 - 3 - 4 - 5)	\$ 4,098,254	\$ -	\$ -	\$ -	\$ -	\$ (0)	
ROPS 13-14B Estimate (01/01/14 - 06/30/14)								
7	Beginning Available Cash Balance (Actual 01/01/14) (C, D, E, G = 4 + 6, F = H4 + F4 + F6, and H = 5 + 6)	\$ 4,098,254	\$ -	\$ -	\$ -	\$ -	\$ -	
8	Revenue/Income (Estimate 06/30/14) Note that the RPTTF amounts should tie to the ROPS 13-14B distribution from the County Auditor-Controller during January 2014						478,735	
9	Expenditures for 13-14B Enforceable Obligations (Estimate 06/30/14)	74,400					478,735	
10	Retention of Available Cash Balance (Estimate 06/30/14) Note that the RPTTF amounts may include the retention of reserves for debt service approved in ROPS 13-14B							
11	Ending Estimated Available Cash Balance (7 + 8 - 9 -10)	\$ 4,023,854	\$ -	\$ -	\$ -	\$ -	\$ -	

ROPS 13-14A Successor Agency (SA) Self-reported Prior Period Adjustments (PPA): Pursuant to HSC Section 34186 (a), SAs are required to report the differences between their actual available funding and their actual expenditures for the ROPS 13-14A (July through December 2013) period. The amount of Redevelopment Property Tax Trust Fund (RPTTF) approved for the ROPS 14-15A (July through December 2014) period will be offset by the SA's self-reported ROPS 13-14A prior period adjustment. HSC Section 34186 (a) also specifies that the prior period adjustments self-reported by SAs are subject to audit by the county auditor-controller (CAC) and the State Controller.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
Item #	Project Name / Debt Obligation	Non-RPTTF Expenditures						RPTTF Expenditures										SA Comments	RPTTF Expenditures							Net CAC Non-Admin and Admin PPA (Amount Used to Offset ROPS 14-15A Requested RPTTF)	CAC Comments
		Bond Proceeds		Reserve Balance		Other Funds		Non-Admin				Admin				Net SA Non-Admin and Admin PPA (Amount Used to Offset ROPS 14-15A Requested RPTTF)	Non-Admin CAC			Admin CAC							
		Authorized	Actual	Authorized	Actual	Authorized	Actual	Authorized	Available RPTTF (ROPS 13-14A distributed + all other available as of 07/1/13)	Net Lesser of Authorized / Available	Actual	Difference (If K is less than L, the difference is zero)	Authorized	Available RPTTF (ROPS 13-14A distributed + all other available as of 07/1/13)	Net Lesser of Authorized / Available	Actual	Difference (If total actual exceeds total authorized, the total difference is zero)		Net Difference (M+R)	Net Lesser of Authorized / Available	Actual	Difference	Net Lesser of Authorized / Available	Actual	Difference		
		\$ 228,759	\$ 96,888	\$ 270,000	\$ -	\$ -	\$ -	\$ 552,711	\$ 426,835	\$ 426,835	\$ 552,711	\$ -	\$ 125,000	\$ 0	\$ 0	\$ -	\$ 0	\$ 0				\$ -			\$ -		
1	2007 Tax Allocation	-	-	-	-	-	-	170,576	170,576	170,576	170,576	\$ -						\$ -									
2	2007 Tax Allocation	-	-	-	-	-	-	224,800	98,924	98,924	224,800	\$ -						\$ -									
3	2007 Tax Allocation Bonds Disclosure	-	-	-	-	-	-	-	-	-	-	\$ -						\$ -									
4	2007 Tax Allocation Bonds Fiscal Agent	-	-	-	-	-	-	2,200	2,200	2,200	2,200	\$ -						\$ -									
5	Casa del Sol - CDBG Section 108	-	-	-	-	-	-	105,135	105,135	\$ 105,135	105,135	\$ -						\$ -									
6	Casa del Sol HELP Loan	-	-	270,000	-	-	-	50,000	50,000	\$ 50,000	50,000	\$ -						\$ -									
7	Fair Plaza East - HELP	-	-	-	-	-	-	-	\$ -	\$ -	\$ -	\$ -						\$ -									
8	Heritage Oaks Apts - HELP	-	-	-	-	-	-	-	\$ -	\$ -	\$ -	\$ -						\$ -									
9	Successor Agency Admin	-	-	-	-	-	-	-	\$ -	\$ -	\$ -	\$ -						\$ -									
10	PERS Liability	-	-	-	-	-	-	-	\$ -	\$ -	\$ -	\$ -						\$ -									
11	OPEB obligation	-	-	-	-	-	-	-	\$ -	\$ -	\$ -	\$ -						\$ -									
12	Unused leave	-	-	-	-	-	-	-	\$ -	\$ -	\$ -	\$ -						\$ -									
13	Well 28 - Well 1B Replacement	-	-	-	-	-	-	-	\$ -	\$ -	\$ -	\$ -						\$ -									
14	Muscle World - Interior	100,000	-	-	-	-	-	-	\$ -	\$ -	\$ -	\$ -						\$ -									
15	Muscle World - Facade	-	-	-	-	-	-	-	\$ -	\$ -	\$ -	\$ -						\$ -									
16	Porter Building	128,759	96,888	-	-	-	-	-	\$ -	\$ -	\$ -	\$ -						\$ -									
17	Pre-Eng/Planning RDA Projs	-	-	-	-	-	-	-	\$ -	\$ -	\$ -	\$ -						\$ -									
18	Downtown Streetscape Proj Phse 2	-	-	-	-	-	-	-	\$ -	\$ -	\$ -	\$ -						\$ -									
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ROPS 13-14A Successor Agency (SA) Self-reported Prior Period Adjustments (PPA): Pursuant to HSC Section 34186 (a), SAs are required to report the differences between their actual available funding and their actual expenditures for the ROPS 13-14A (July through December 2013) period. The amount of Redevelopment Property Tax Trust Fund (RPTTF) approved for the ROPS 14-15A (July through December 2014) period will be offset by the SA's self-reported ROPS 13-14A prior period adjustment. HSC Section 34186 (a) also specifies that the prior period adjustments self-reported by SAs are subject to audit by the county auditor-controller (CAC) and the State Controller.

[illegible]

Recognized Obligation Payment Schedule (ROPS) 14-15A - Report of Prior Period Adjustments Reported for the ROPS 13-14A (July 1, 2013 through December 31, 2013) Period Pursuant to Health and Safety Code (HSC) section 34186 (a) (Report Amounts in Whole Dollars)	
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ROPS 13-14A Successor Agency (SA) Self-reported Prior Period Adjustments (PPA): Pursuant to HSC Section 34186 (a), SAs are required to report the differences between their actual available funding and their actual expenditures for the ROPS 13-14A (July through December 2013) period. The amount of Redevelopment Property Tax Trust Fund (RPTTF) approved for the ROPS 14-15A (July through December 2014) period will be offset by the SA's self-reported ROPS 13-14A prior period adjustment. HSC Section 34186 (a) also specifies that the prior period adjustments self-reported by SAs are subject to audit by the county auditor-controller (CAC) and the State Controller.

ROPS 13-14A Successor Agency (SA) Self-reported Prior Period Adjustments (PPA): Pursuant to HSC Section 34186 (a), SAs are required to report the differences between their actual available funding and their actual expenditures for the ROPS 13-14A (July through December 2013) period. The amount of Redevelopment Property Tax Trust Fund (RPTTF) approved for the ROPS 14-15A (July through December 2014) period will be offset by the SA's self-reported ROPS 13-14A prior period adjustment. HSC Section 34186 (a) also specifies that the prior period adjustments self-reported by SAs are subject to audit by the county auditor-controller (CAC) and the State Controller.																			ROPS 13-14A CAC PPA: To be completed by the CAC upon submittal of the ROPS 14-15A by the SA to Finance and the CAC. Note that CACs will need to enter their own formulas at the line item level pursuant to the manner in which they calculate the PPA. Also note that the admin amounts do not need to be listed at the line item level and may be entered as a lump sum.								
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
Item #	Project Name / Debt Obligation	Non-RPTTF Expenditures						RPTTF Expenditures										SA Comments	RPTTF Expenditures							CAC Comments	
		Bond Proceeds		Reserve Balance		Other Funds		Non-Admin				Admin				Net SA Non-Admin and Admin PPA (Amount Used to Offset ROPS 14-15A Requested RPTTF)	Non-Admin CAC			Admin CAC			Net CAC Non-Admin and Admin PPA (Amount Used to Offset ROPS 14-15A Requested RPTTF)				
		Authorized	Actual	Authorized	Actual	Authorized	Actual	Authorized	Available RPTTF (ROPS 13-14A distributed + all other available as of 07/1/13)	Net Lesser of Authorized / Available	Actual	Difference (If K is less than L, the difference is zero)	Authorized	Available RPTTF (ROPS 13-14A distributed + all other available as of 07/1/13)	Net Lesser of Authorized / Available	Actual	Difference (If total actual exceeds total authorized, the total difference is zero)		Net Difference (M+R)	Net Lesser of Authorized / Available	Actual	Difference	Net Lesser of Authorized / Available	Actual	Difference		Net Difference
		\$ 228,759	\$ 96,888	\$ 270,000	\$ -	\$ -	\$ -	\$ 552,711	\$ 426,835	\$ 426,835	\$ 552,711	\$ -	\$ 125,000	\$ 0	\$ 0	\$ -	\$ 0	\$ -				\$ -			\$ -	\$ -	\$ -
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Recognized Obligation Payment Schedule (ROPS) 14-15A - Report of Prior Period Adjustments Reported for the ROPS 13-14A (July 1, 2013 through December 31, 2013) Period Pursuant to Health and Safety Code (HSC) section 34186 (a) (Report Amounts in Whole Dollars)	
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ROPS 13-14A Successor Agency (SA) Self-reported Prior Period Adjustments (PPA): Pursuant to HSC Section 34186 (a), SAs are required to report the differences between their actual available funding and their actual expenditures for the ROPS 13-14A (July through December 2013) period. The amount of Redevelopment Property Tax Trust Fund (RPTTF) approved for the ROPS 14-15A (July through December 2014) period will be offset by the SA's self-reported ROPS 13-14A prior period adjustment. HSC Section 34186 (a) also specifies that the prior period adjustments self-reported by SAs are subject to audit by the county auditor-controller (CAC) and the State Controller.

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Item #	Project Name / Debt Obligation	Non-RPTTF Expenditures						RPTTF Expenditures											SA Comments	RPTTF Expenditures							CAC Comments	
		Bond Proceeds		Reserve Balance		Other Funds		Non-Admin					Admin							Net SA Non-Admin and Admin PPA (Amount Used to Offset ROPS 14-15A Requested RPTTF)	Non-Admin CAC			Admin CAC				Net CAC Non-Admin and Admin PPA (Amount Used to Offset ROPS 14-15A Requested RPTTF)
		Authorized	Actual	Authorized	Actual	Authorized	Actual	Authorized	Available RPTTF (ROPS 13-14A distributed + all other available as of 07/1/13)	Net Lesser of Authorized / Available	Actual	Difference (If K is less than L, the difference is zero)	Authorized	Available RPTTF (ROPS 13-14A distributed + all other available as of 07/1/13)	Net Lesser of Authorized / Available	Actual	Difference (If total actual exceeds total authorized, the total difference is zero)	Net Difference (M+R)		Net Lesser of Authorized / Available	Actual	Difference	Net Lesser of Authorized / Available	Actual	Difference	Net Difference		
		\$ 228,759	\$ 96,888	\$ 270,000	\$ -	\$ -	\$ -	\$ 552,711	\$ 426,835	\$ 426,835	\$ 552,711	\$ -	\$ 125,000	\$ 0	\$ 0	\$ -	\$ 0	\$ -				\$ -		\$ -	\$ -			
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Recognized Obligation Payment Schedule 14-15A - Notes July 1, 2014 through December 31, 2014	
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Recognized Obligation Payment Schedule 14-15A - Notes	
July 1, 2014 through December 31, 2014	
Item #	Notes/Comments