

Tuesday, August 2, 2022

REGULAR MEETING STARTS AT 6:00 PM

**Mayor Dan Epperson
Vice Mayor Rodney Plamondon
Council Member Dominic Atlan
Council Member Stacy Rhoades
Council Member Diane Wratten**

**DUE TO THE GOVERNOR'S EXECUTIVE ORDER N-25-20, THE CITY OF IONE
WILL BE CONDUCTING ITS MEETING IN PERSON
AT 1 E. MAIN STREET, IONE, CA 95640
AND VIA ZOOM**

City of Ione is inviting you to a scheduled Zoom meeting.

Join Zoom Meeting

<https://zoom.us/j/2351961316?pwd=d3lWtW0zbVJLbQpQNXBDQWtpZkRyUT09>

Meeting ID: 235 196 1316

Passcode: 95640

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Meeting ID: 235 196 1316

Passcode: 95640

Find your local number: <https://zoom.us/u/aex3ZLbqgp>

Tuesday, August 2, 2022

1 E. Main Street

Ione, CA 95640

**THE CITY OF IONE IS A GENERAL LAW CITY DEDICATED TO
PROVIDING LEADERSHIP, ACCOUNTABILITY, AND FISCAL INTEGRITY
WHILE PROMOTING ECONOMIC OPPORTUNITIES AND MAINTAINING
A HIGH QUALITY OF LIFE FOR OUR CITIZENS**

PLEASE LIMIT PUBLIC COMMENT/TESTIMONY TO FOUR MINUTES

Gov't. Code §54954.3

The Ione City Council welcomes, appreciates, and encourages participation in the City Council Meeting. The City Council reserves the right to reasonably limit the total time for public comment on any particular noticed agenda item as it may deem necessary.

Full staff reports and associated documents are available for public review at the Office of the City Clerk, City Hall, 1 E. Main Street, Ione, CA. Hard copies may be obtained for \$3.60 for pages 1-5 and \$.45 for each additional page. Documents that are not available when the agenda is posted will be made available for public review at the meeting.

AGENDA

A. ROLL CALL

B. PLEDGE OF ALLEGIANCE

C. APPROVAL OF AGENDA

D. PRESENTATIONS/ANNOUNCEMENTS:

Oath of Office Administered to Chief of Police, Corporals and Police Officers

E. PUBLIC COMMENT: **EACH SPEAKER IS LIMITED TO 4 MINUTES**

NOTE: This is the time for members of the public who wish to be heard on matters that do not appear on the Agenda. Persons may address the City Council at this time on any subject within the jurisdiction of the Lone City Council.

*Please be mindful of the **4 minute time limit per person**. Pursuant to the Brown Act, the City Council may not take action or engage in a detailed discussion on an item that does not appear on the Agenda. However, matters that **require Council action will be referred to staff for a report and/or recommendation for possible action at a future Council meeting. Is there anyone in the audience who wishes to address the Council at this time?***

F. CONSENT CALENDAR:

Notice to the Public: *All matters listed under this category are considered to be routine and will be enacted by one motion. Any item may be removed for discussion and possible action and made a part of the regular agenda at the request of a Council Member(s).*

1. Approval of Minutes: June 7, 2022 and June 21, 2022
2. Warrants for June 2022 and July 2022
3. Receive and File Lone Public Works Department Report - 2nd Quarter Report – 2022
4. Receive and File Second Quarter 2022 Ground Water Monitoring Reports
5. Adoption of Resolution No. 2022-10 Designation of Voting Delegates and Alternates for League of California Cities Annual Conference & Expo – 2022
6. Adoption of Resolution No. 2022-16 – Requesting Election Support Services from the Amador County Clerk

G. PUBLIC HEARING: None

H. REGULAR AGENDA:

7. Authorize the Interim City Manager to sign an Engineering Services Agreement with Willdan Engineering

8. Community Facilities Districts – Fiscal Year 2022-2023 Levy of Special Taxes
 - a) Adoption of Resolution No. 2022-13 – Authorizing the Levy of Special Taxes for Fiscal Year 2022-2023 – Community Facilities District No. 2005-2
 - b) Adoption of Resolution No. 2022-14 – Authorizing the Levy of Special Taxes for Fiscal Year 2022-2023 – Community Facilities District No. 2006-1
 - c) Adoption of Resolution No. 2022-15 – Authorizing the Levy of Special Taxes for Fiscal Year 2022-2023 – Community Facilities District No. 2009-3
9. Adoption of Resolution No. 2022-17 – Authorizing the Fiscal Year 2022-2023 Placement of Unpaid Sewer Payments on the 2022-2023 Amador County Tax Rolls
10. Introduce and Waive the First Reading by Substitution of Title Only Ordinance No. 530 Amending Municipal Code Title 2 (Administration and Personnel), Chapter 2.36 and set the Public Hearing for August 16, 2022
11. Appointment of Planning Commissioner to Fill Unexpired Term of October, 2020 – October, 2024 – Mayor Epperson

I. REPORTS AND COMMUNICATIONS FROM CITY MANAGER

J. COUNCIL COMMENTS/COMMITTEE REPORTS/FUTURE AGENDA ITEMS

K. CLOSED SESSION:

- Pursuant to Government Code Section 54957 – Public Employee Appointment: City Manager
- Conference with Legal Counsel-Existing Litigation: Section 54956.9 of the Government Code - Amador Superior Court Case Number 22-CV-12691 – McGraw v City of Ione
- Conference with Legal Counsel Pursuant to Government Code Section 54956.9(d)(1), Existing Litigation California Public Utilities Commission v. City of Ione
- Conference with Legal Counsel – Anticipated Litigation: Significant Exposure to litigation Pursuant to Paragraph (2) of Section 54956.9 of the Government Code – Three (3) Cases

L. ADJOURNMENT

NOTICE REGARDING CHALLENGES TO DECISIONS

Pursuant to all applicable laws and regulations, including without limitation, California Government Code Section 65009 and or California Public Resources Code Section 21177, if you wish to challenge in court any of the above decisions (regarding planning, zoning and/or environmental decisions), you may be limited to raising only those issues you or someone else raised at the public hearing(s) described in this notice/agenda, or in written correspondence delivered to the City at, or prior to, this public hearing.

ADA COMPLIANCE STATEMENT

In compliance with the American with Disabilities Act, if you need special assistance to participate in this meeting, please contact City Clerk Janice Traverso at (209) 274-2412, ext. 102. Notification 24 hours prior to the meeting will enable the City to make reasonable arrangements to ensure accessibility to this meeting.

CITY OF IONE COUNCIL MEETING MINUTES
Meeting of Tuesday, June 7, 2022

Mayor Epperson called meeting to order at 6:00 PM

A. ROLL CALL:

Present: Dan Epperson, Mayor
Rodney Plamondon, Vice Mayor
Dominic Atlan, Councilmember
Stacy Rhoades, Councilmember
Diane Wratten, Councilmember

Staff: Michael Rock, Interim City Manager
Carolyn Walker, City Attorney
Janice Traverso, City Clerk
Chris Hancock, City Treasurer
Julie Millard, Management Analyst

B. PLEDGE OF ALLEGIANCE:

Mayor Epperson led the Pledge of Allegiance.

C. APPROVAL OF AGENDA:

It was moved by Councilmember Rhoades, seconded by Vice Mayor Plamondon and carried to approve the agenda as written.

AYES: Epperson, Plamondon, Atlan, Rhoades, Wratten

NOES: None

ABSENT: None

ABSTAIN: None

D. PRESENTATIONS/ANNOUNCEMENTS: None

E. PUBLIC COMMENT:

Karl Kelzer, 706 Foothill Blvd. commented that shortly after I moved into my property and I discovered there were issues with the home and flooding on my property. I have contacted the City and the Building Inspector did come out but his information was unacceptable. I have contacted the developer and was told it was signed *off* and to "pound sand". I would appreciate a follow up with the City.

Patrice Prest asked when the apartment complex on Waterman Road will be on the agenda-Council will let her know when it will be agendized. Ms. Prest commented that she was told that the Castle Oaks Landscape issue would be on this agenda and it is not. Council member Wratten asked that we try to get this item on the agenda before the end of August.

Larry Rhoades commented that when the 276-unit apartments on Waterman Road is on the agenda, I would like the Police Department to pull the records from when they built the prison and how many calls they had from the apartments near the Elementary School the first year over the year before.

Tom Quinn commented on the condition of the City at the different entrances into the City, the issues at his neighbor's home and term limits on elected officials.

Patti Fisher-Misuraca asked the Council how can we keep the City involved to help the citizens move forward to try to save the schools in Lone. My gut tells me that once they take Lone Elementary, they will take our old school at Lone Junior High School-the oldest school in Amador County. I don't think they have followed a number of rules when they close a school and they have not looked at the proximity of the railroad to the school. Michael Rock reminded the Council has a Closed Session tonight and you may want to decide whether to agendaize this issue after the Closed Session.

Gary Thomas suggested a Committee be appointed to look at the different issues related to consolidation.

F. CONSENT CALENDAR:

It was moved by Councilmember Atlan, seconded by Councilmember Wratten and carried to approve the following Consent Calendar:

1. Approval of Minutes: April 19, 2022 and May 3, 2022
2. Financial Statements and Warrants for April/May, 2022
3. Cancel City Council Meeting scheduled for July 19, 2022 - Mayor Epperson and Vice Mayor Plamondon

AYES: Epperson, Plamondon, Atlan, Rhoades, Wratten

NOES: None

ABSENT:None

ABSTAIN: None

G. PUBLIC HEARING: None

DISCUSSION ITEMS:

For the record: Action minutes provide the necessary documentation of City Council action. Audio recordings are retained for those desiring more detail on particular agenda item discussions. These audio recordings provide an accurate and comprehensive backup of City Council deliberations and citizen discussions.

H. REGULAR AGENDA:

Councilmember Atlan recused himself from the meeting.

4. Approval of a Lease Agreement with Sang Hai Corp. (Castle Oaks) for the Operation of an Electric Sign Board on City Property- Michael Rock explained that the Planning Commission adopted Resolution No. 2021-03, approving the Site Plan review for the Castle Oaks Entry Sign at 1000 Castle Oaks Drive. The staff report in part stated: "The Castle Oaks Entry sign will be a placement of one (1) freestanding pylon sign with an electric message display board at 1000 Castle Oaks Drive, at the entryway to Castle Oaks Golf Club and residential development. This project was previously approved at a different location on the existing site. The proposed sign is 93.65 square feet in size and 18 feet in height. This project will require approval of a Caltrans permit. The agreement stipulates the City will receive revenue sharing of 15% of gross revenues per year.

Estimated revenue to the City based on gross revenue of \$60,000/year is \$9,000/year. This agreement has been reviewed with George Lee, General Manager of Castle Oaks Golf Course and negotiated the Revenue Sharing Agreement.

Councilmember Rhoades commented that the lone Municipal Code Section 17.44 Signs on City property does not allow private party signs on City properties. From what I see, we cannot do this and need to change our Municipal Code.

Michael Rock stated that this property is not considered a City facility and is just a sliver of right-of-way and the Golf Course already has a lease with the City. City Attorney, Carolyn Walker commented that under normal terms, this is not a public facility and would not include all property.

After discussion by Council, it was moved by Vice Mayor Plamondon, seconded by Councilmember Wratten and carried to approve the Lease Agreement with Sang Hai Corp. ***Councilmember Wratten asked how the revenue is going to be generated and that the agreement be revisited every five year.***

AYES: Epperson, Plamondon, Atlan, Wratten

NOES: Rhoades

ABSENT: None

ABSTAIN: None

Councilmember Atlan returned to the dais at this time.

5. Authorization to Release an RFP for Design, Implementation, and Ongoing Maintenance of a New City Website - The City's current website was developed in 2014 and is currently hosted by Siteground. Recently the City's website host performed a routine update that rendered the City's website nearly non-functional. Staff is no longer able to edit pages, upload content on the majority of web pages or utilize most features on the website. At this time, staff is only able to upload meeting agenda packets. Redesigning the website offers a unique opportunity to add important information and capabilities missing from the current website. It was moved by Councilmember Wratten, seconded by Councilmember Rhoades and carried to Release an RFP for Design, Implementation and Ongoing Maintenance of a New City Website.

AYES: Epperson, Plamondon, Atlan, Rhoades, Wratten

NOES: None

ABSENT: None

ABSTAIN: None

6. Authorize the Interim City Manager to sign the 2022 Swimming Pool Management Agreement with Amador County Recreation Agency - Michael Rock explained that ACRA has contracted with ACRA to manage pool operations since 2014. The term for the 2022 Swimming Pool Management Agreement is June 1, 2022 through September 2, 2022. It was moved by Councilmember Atlan, seconded by Councilmember Rhoades and carried to approve the 2022 Swimming Pool Management Agreement with ACRA.

AYES: Epperson, Plamondon, Atlan, Rhoades, Wratten

NOES: None

ABSENT: None

ABSTAIN: None

7. Presentation of the Draft Fiscal Year 2022/2023 Operating and Capital Improvement Budgets - The Council asked that the following items be included in the Budget 2022/2023:

- The COLA adjustment for certain employees be reduced from 7% to 5%
- The loan repayments for the Arena Loan be charged a 3% interest rate and to add that to the total annual repayments plan
- In return to Council meeting in about six months with an MOU for the Unrepresented Employees and with a proposal to add an additional 2% COLA to base salaries and then to have employees contribute an additional 2% towards the employee portion of PERS

After discussion, it was moved by Councilmember Wratten, seconded by Councilmember Atlan and add the above items to the draft budget and bring it back for final adoption at the next meeting.

AYES: Epperson, Plamondon, Atlan, Wratten

NOES: Rhoades

ABSENT:None

ABSTAIN: None

8. City Manager Recruitment -Authorize staff to initiate the recruitment to fill the permanent City Manager position and proceed with advertising and marketing. After discussion by Council it was moved by Councilmember Atlan, seconded by Councilmember Rhoades and carried to proceed with recruitment of the City Manager with the advertising and marketing not to exceed \$3,500 and run the add in the Ledger-Dispatch at least four times.

AYES: Epperson, Plamondon, Atlan, Rhoades, Wratten

NOES: None

ABSENT: None

ABSTAIN: None

I. REPORTS AND COMMUNICATIONS FROM CITY MANAGER:

- Will have the Wastewater operations on the agenda within the next 30 to 60 days- outside contractor v. city staff.
- CDCR and ARSA both had issues this week and were unable to send their affluent to the Tertiary Plant and should have it resolved by the end of this week.
- Energy Audit - staff has reviewed a feasibility assessment and would like to proceed with an RFP to assist the City with the next steps of the process and will be completed in the upcoming weeks and bring to Council.
- The NOC for the Foothills Blvd. extension project should be received tomorrow from Caltrans

J. COUNCIL COMMENTS/COMMITTEE REPORTS/FUTURE AGENDA ITEMS:

- Dominic Atlan attended the recent Groundwater Task Force meeting yesterday and they would like the lone to join the group and they would help the City if we should have any projects.

- Councilmember Rhoades would like Amador Water Agency make a presentation to the City regarding potable water in lone.
- Mayor Epperson - ACRA meeting this week and at some point the Council will need an RTM project sent to ACTC.

Councilmember Rhoades recused himself from Closed Session.

K. CLOSED SESSION: Council convened to Closed Session to discuss the following:

- Conference with Legal Counsel -Anticipated Litigation: Significant Exposure to Litigation Pursuant to Paragraph (2) of Section 54956.9 of the Government Code - Four (4) Cases
- Pursuant to Government Code Section 54957 - Public Employee Appointment: City Manager
- Public Employee Performance Review - Interim City Manager - Pursuant to Government Code 54957.9

L. DISPOSITION OF CLOSED SESSION ITEMS: Council reconvened to Open Session and announced the following:

- Conference with Legal Counsel -Anticipated Litigation: Significant Exposure to Litigation Pursuant to Paragraph (2) of Section 54956.9 of the Government Code - Four (4) Cases - Information received and direction given.
- Pursuant to Government Code Section 54957 - Public Employee Appointment: City Manager - Information received and direction given.
- Public Employee Performance Review - Interim City Manager - Pursuant to Government Code 54957.9 - Information received and direction given.

M. ADJOURNMENT:

Mayor Epperson adjourned the meeting.

Respectfully submitted,

Janice Traverso, City Clerk

CITY OF IONE COUNCIL MEETING MINUTES
Meeting of Tuesday, June 21, 2022

Mayor Epperson called meeting to order at 6:00 PM

A. ROLL CALL:

Present: Dan Epperson, Mayor
Dominic Atlan, Councilmember
Stacy Rhoades, Councilmember
Diane Wratten, Councilmember
Absent: Rodney Plamondon, Vice Mayor
Staff: Michael Rock, Interim City Manager
Carolyn Walker, City Attorney
Janice Traverso, City Clerk
Chris Hancock, City Treasurer
Julie Millard, Management Analyst

B. PLEDGE OF ALLEGIANCE:

Mayor Epperson led the Pledge of Allegiance.

C. APPROVAL OF AGENDA:

It was moved by Councilmember Rhoades, seconded by Council member Wratten and carried to approve the agenda as written.
to approve the agenda as written.

AYES: Epperson, Atlan, Rhoades, Wratten

NOES: None

ABSENT: Plamondon

ABSTAIN: None

D. PRESENTATIONS/ANNOUNCEMENTS:

Annual Report from Amador Water Agency by Mr. Larry McKenny, General Manager:

- We are adhering to the State's restrictions-20% reduction--regarding the drought and have sustained the Stage 1 Water Alert-limit watering their turf outside to two days a week and not letting hoses run down the gutters, letting your hose run while washing your car and identifying leaks
- Our water supply in Amador County is relatively solid compared to other agencies in the State
- Our real problem is our infrastructure and the five treatment plants. The treatment plant in Ione is quite old and it has not been kept up in terms of investments to meet current demand, which triggered our Water Master Plan Study.
- The Tanner Plant and the Ione Plant run at full capacity in the summer months. We looked at the Water Plants to see if there were measures we can do option that we can take to expand or extend the capacity. There are some things we can do-at the Ione Plant we are to replace the cover on the treated water clear well and will extend the life at least eight years. We are looking at replacing the clarifier and doing a geotechnical investigation of the site-whether to expand on that site or building a new site at Sutter Hill to serve the whole region.
- Be mindful that every drop counts!

E. PUBLIC COMMENT:

Paul Perotti, President of the Castle Oaks Senior Men's Club shared his concern, frustration and anger over the reoccurring problems over the years of availability of water at the Golf Course. Our main goal tonight is to bring about an outcome that effectively initiates the will of this Council to lead a process that permanently solves the problem. If there is a will - there is a way. You must demand that all individuals, agencies, cities and others involved in the decision related to the flow of wastewater in the county hammer out an agreement before our Golf Course is permanently damaged. Stop the blame game, rise to the occasion and do your job and move full steam ahead with the interconnection project.

Elmer Rhode, member of the Castle Oaks Senior Men's Club addressed the City's lack of action with regards to irrigation water to the golf course. In 2017 a letter was sent from the City to ARSA, Dan and Dominic were on the Council. According to the Ledger Dispatch this was just a ploy to get a better deal from ARSA. If the article was true, ARSA called your bluff. The City had five years to resolve a way to irrigate the golf course without ARSA and what did you do-nothing until May 18, 2021 when an RFP for the headworks replacement and the interconnection project with the wastewater and tertiary plants was released. Proposals were due June 17, 2021. A contract for the project was signed in December 7, 2021. Everything has slipped 6 months. The course will probably needs to be reseeded, which will be the responsibility of the City.

Kim Smith, member of the Castle Oaks Senior Men's Club- have played regularly at Castle Oaks since 2003. The course now looks more like a desert than the course I have enjoyed playing for almost 2 decades. Most of the grass is either dead or dying. Playing conditions are poor at best and only will get worse as we get in the hotter weather. The golf course is an asset not only to the City but to the County and has been here over 30 years. The time has come for all stakeholders to pull together toward a common goal to provide the golf course with a reliable source of irrigation water. Litigation should be a last resort.

Allen Beers, Sutter Creek and member of the Castle Oaks Senior Men's Club. More than 30 years ago ARSA and the City of Lone entered into an agreement that allowed affluent from the sewer treatment plant in Sutter Creek to be disbursed onto the Golf Course. Early in the 2000's Sutter Creek began negotiations with Gold Rush Ranch with plans to build a golf course, hotel, homes and a golf course with plans to upgrade the treatment plant and to disburse the affluent onto the golf course. ARSA then sent a 5-year notice to the City that they will no longer send their affluent to Lone. In 2010, there was lawsuit against Sutter Creek and Gold Rush indirectly in 2010, which was not settled until 2016, and the developer had shut down. ARSA had a continuing need to send their affluent to Lone and arrangements were made to continue the contract. Since that time Lone has had issues with the affluent from Mule Creek State Prison. The current contract with ARSA will end at the end of July and because of the timeline of the interconnection project, it will not save the golf course because of a variety of issues that have not been resolved.

Kip Garvey, in reviewing the history of ARSA and the City, which most has been reviewed with you tonight-in 2011 something happened with the City and the City Council recognized that there was a situation where the water at the golf course was in jeopardy.

They came up with a plan and notified ARSA that they may not be renewing their contract. They could not have done that unless they had a plan, which I think was the interconnection project. Why hasn't this interconnection project completed? We are asking the City Council help and cooperation in expediting a permanent solution and move the interconnection project to the front burner.

Meredith Anderson, Sierra Business Council runs the energy watch program under PG&E. Ms. Anderson explained the services available through the Sierra Business Council-be your energy manager, free technical services, Green Gas Program, and make sure you are getting the best services and energy savings. Ms. Anderson provided her contact information for staff.

Karl Kelzer, 706 Foothill Blvd. has had problems with his property for the last two years and has had no cooperation from the City. He would like someone who is certified do an inspection on his property and get to the bottom of what is going on. He also asked to set up a meeting with the Mayor. The waste material that was dumped on the track at Howard Park is very difficult to walk on and it is just a matter of time until some elderly person falls and breaks a hip and what a disgrace it is to the Park itself.

Larry Rhoades commented that there was a well at the Sewer Plant providing 800 gallons per minute and ran the Preston Farmland since the 1930's and this City disconnected it. I don't know why it is not being used.

Bette Rhoades read a letter into the record concerning the discussion on the sign at the Castle Oaks Golf Course at the June 7, 2022 meeting. When Councilmember Rhoades informed the Council of the Sign Ordinance in the lone Municipal Code-Signs on City Property--immediately, Michael Rock berated Councilmember Rhoades for not contacting him first before bringing it up at the meeting and it was only done to embarrass staff. It is not the Councilmember's duties to tell the manager everything some of his constituents have the same concern--that is why there is a Council meeting. Yes, I am upset on the way your treat him, as his Mother and as a concerned citizen.

Dave Livingstone commented on the issues about water in the City of lone-not a resident of Castle Oaks. I am concerned about any building permit given to any developer for housing or commercial. We were asked by the General Manager of the Amador Water Agency to cut our usage of water and if we can't with the existing residents use the amount of water we need and have been asked to cut back why would the City Council consider issuing more building permits for more buildings.

F. CONSENT CALENDAR:

It was moved by Councilmember Rhoades, seconded by Councilmember Wratten and carried to approve the following Consent Calendar:

1. Re-appointment of Steven Fredrick, Sally Jo Norris and Don Vicari to the Creek Committee for the term June 2021-June 2023
2. May 2022 Warrants and Financial Reports

AYES: Epperson, Atlan, Rhoades, Wratten

NOES: None

ABSENT: Plamondon

ABSTAIN: None

G. PUBLIC HEARING: None

DISCUSSION ITEMS:

For the record: Action minutes provide the necessary documentation of City Council action. Audio recordings are retained for those desiring more detail on particular agenda item discussions. These audio recordings provide an accurate and comprehensive backup of City Council deliberations and citizen discussions.

H. REGULAR AGENDA:

3. Adoption of Resolution No. 2022-11 Adopting the Fiscal Year Operating and Capital Budget 2022/2023 - On May 31, 2022, the Finance Committee reviewed the proposed budget and on June 7, 2021, it was reviewed with the City Council. On June 7, 2021, the Council requested the following amendments:
 - The COLA adjustment for certain employees be reduced from 7% to 5%
 - The loan repayments for the Arena Loan be charged a 3% interest rate and to add that to the total annual repayments plan
 - In return to Council meeting in about six months with an MOU for the Unrepresented Employees and with a proposal to add an additional 2% COLA to base salaries and then to have employees contribute an additional 2% towards the employee portion of PERS

After the discussion by Council, it was moved by Council member Atlan, seconded by Councilmember Wratten and carried to adopt the Fiscal Year Operating and Capital Budget for 2022/2023.

AVES: Epperson, Atlan, Rhoades, Wratten

NOES: Rhoades

ABSENT: Plamondon

ABSTAIN: None

4. Approve the First Amendment to the Personal Services Agreement for Financial Consulting Services - Mary Morris-Mayorga - Staff is recommending the City Council approve the First Amendment to Personal Services Contract between the City and Mary A. Morris-Mayorga for professional assistance with tasks in the Finance Division, including, but not limited to, Fiscal Year 2019/2020 and Fiscal Year 2020/2021 Comprehensive Audited Financial Reports (CAFR) and for general financial consulting services until the City's Finance Manager position is fully staffed for a term of one year ending June 30, 2023. After discussion by Council, it was moved by Councilmember Atlan, seconded by Councilmember Wratten and carried to approve the First Amendment to the Personal Services Agreement for Financial Consulting Services.

AYES: Epperson, Atlan, Rhoades, Wratten

NOES: None

ABSENT: Plamondon

ABSTAIN: None

5. Adoption of Resolution No. 2022-12 -Adopting List of Projects for Fiscal Year 2022-2023 Funded by the Road Repair and Accountability Act of 2017 (SB 1) -The SB 1 Senate Bill provides revenues for road maintenance projects within the City. According to the State's most recent projections for Fiscal Year 2022-23, the City is projected to receive

approximately \$175,337 in revenues from SB-1. Staff presented a list of streets from the City's Pavement Management Program (PMP) that was completed in 2015 that shows streets that need treatment and/or maintenance. Staff will bring back a list of streets that need resurfacing within the next few months. This resolution satisfies the SB-1 requirement and will allow staff to pick a project as long as it is on the list. It was moved by Councilmember Wratten, seconded by Councilmember Rhoades and carried to adopt Resolution No. 2022-12 Adopting a list of projects for Fiscal Year 2022-23 Funded by the Road Repair and Accountability Act of 2017 (SB-1).

AYES: Epperson, Atlan, Rhoades, Wratten

NOES: None

ABSENT: Plamondon

ABSTAIN: None

6. Discuss and Consider Authorizing Staff to Write an RFQ for a Professional Company to Operate Ed Hughes Memorial Arena and Serve as Caretaker of Howard Park-The City recently ended the contract with J-Bouldin-West, LLC and now desires to find a suitable replacement to carry out the day to day oversight/maintenance duties related to the arena that were previously performed by J-Bouldin West, LLC. It was moved by Councilmember Rhoades, seconded by Councilmember Atlan and carried to refer the RFQ to the Park & Recreation Commission for their input.

AYES: Epperson, Atlan, Rhoades, Wratten, Rhoades

NOES:

ABSENT: Plamondon

ABSTAIN: None

I. REPORTS AND COMMUNICATIONS FROM CITY MANAGER:

- Golf Course is receiving over a half a million gallons today and should be receiving over a million gallons tomorrow from CDCR
- Several employees in the office are out ill and some are on vacation
- Caltrans is redesigning the drainage plans for Main Street
- Police Chief recruitments closed June 10, 2022 and applications were received and final interviews will be July 7, 2022
- Reminder that July 19, 2022 Council meeting cancelled

J. COUNCIL COMMENTS/COMMITTEE REPORTS/FUTURE AGENDA ITEMS:

- Councilmember Rhoades - Creek Committee met and will be sending a memo to the City Manager regarding cleaning of the creek.
- Councilmember Wratten - Following the CERF Committee for community development. They are putting together proposals and implementation schedules for development within Amador County.
- Mayor Epperson - RTF Committee met and reviewed the current project worklist. When our new Engineer is on board, we should meet about the bypass. ACRA met-Bingo at Castle Oaks, Farmer's Market successful and they hired new staff members.

Future Agenda Items:

- Wastewater Committee Meeting - Mayor Epperson
- Update from CDCR on Wastewater- Mayor Epperson
- Discussion on WIRIS - Councilmember Wratten

Councilmember Rhoades recused himself from Closed Session.

K. CLOSED SESSION: Council convened to Closed Session to discuss the following:

- Conference with Legal Counsel -Anticipated Litigation: Significant Exposure to Litigation Pursuant to Paragraph (2) of Section 54956.9 of the Government Code - Two (2) Cases

L. DISPOSITION OF CLOSED SESSION ITEMS: Mayor Epperson announced the following:

Conference with Legal Counsel -Anticipated Litigation: Significant Exposure to Litigation Pursuant to Paragraph (2) of Section 54956.9 of the Government Code - Two (2) Cases

- Case 1- Direction was given to staff.
- Case 2 - Information received and no direction given because only two members present - Councilmember Atlan recused himself.

M. ADJOURNMENT:

It was moved by Councilmember Atlan, seconded by Councilmember Wratten and carried to adjourn.

Respectfully submitted,

Janice Traverso, City Clerk



CITY OF IONE

WARRANT REGISTER

JUNE 2022

Report Criteria:

Report type: Invoice detail

Check.Type = {<-> "Adjustment"

Check Num	Check Issue Date	Vendor ID	Payee	Description	Amount
2970	06/06/2022	115	ALHAMBRA	DRINKING WATER	115.32
2971	06/06/2022	265	AMADOR COUNTY SHERIFF'S DEPT	MO. RIMS ACCESS FEE 04/22	520.95
2972	06/06/2022	315	AMADOR WATER AGENCY	005018-009-431 QUAILHOLLOW DR	3,828.66
2973	06/06/2022	425	ATT MOBILITY	MO. CELL-WWTF 05/22	70.20
2997	06/06/2022	540	BENEFIT COORDINATORS CORPORATION	LIFE INSURANCE & AD&D BENEFITS- JUN 2022	360.95
2974	06/06/2022	580	BIG VALLEY PRINTING	5 K #10 WINDOW ENVELOPES	404.48
2976	06/06/2022	1220	DE LAGE LANDEN INC.	MONTHLY COPIER LEASE 06/22	340.49
2977	06/06/2022	1225	DE NOVO PLANNING GROUP INC.	PLANNING SERVICES MAR 2022	8,073.06
2978	06/06/2022	1355	EASTON'S SERVICE AND REPAIR	GRASSHOPPER- FIX REAR AXLES, WELD BROKEN SHROUDS	1,330.88
2980	06/06/2022	1500	FERGUSON ENT INC. #686	V500AA 1-1/4X9 VB CP - EB HALL	31.10
2980	06/06/2022	1500	FERGUSON ENT INC. #686	1.6 CLST FV W/ SWT KIT - EB HALL	131.46
2980	06/06/2022	1500	FERGUSON ENT INC. #686	1.28 GPF MANU DIAPH TLT FLUSH VLV - EB HALL	114.30
2981	06/06/2022	1570	FOLKMAN JANITORIAL	JANITORIAL SERVICE-EB HALL MAY 22	330.00
2982	06/06/2022	1920	HI-TECH E V S INC	QD RELIEF VALVE KIT	434.26
2984	06/06/2022	1950	HUNT & SONS INC.	FUEL - PUBLIC WORKS	1,318.97
2984	06/06/2022	1950	HUNT & SONS INC.	FUEL - PUBLIC WORKS	1,450.99
2984	06/06/2022	1950	HUNT & SONS INC.	ULTRA LOW SULFUR DYED DIESEL #2 FIRE DEPT	1,625.24
2984	06/06/2022	1950	HUNT & SONS INC.	FUEL - FIRE	106.65
2984	06/06/2022	1950	HUNT & SONS INC.	FUEL - FIRE	59.89
2985	06/06/2022	2040	IONE PHARMACY	D/A FLCX FBRC AP 100 BANDAIDS	10.55
2988	06/06/2022	2070	IWORQ SYSTEMS INC.	IWORQ SUBSCRIPTION FY 22/23	5,300.00
2989	06/06/2022	2105	JACKSON TIRE SERVICE INC	17-02 TIRES & BALANCE	704.09
2991	06/06/2022	2930	PG & E	9035594982-8-412 EAGLE DR	8,268.46
2990	06/06/2022	3145	NAPA AUTO PARTS	899375 - FD ENG 6240 BLUE DF	195.15
2992	06/06/2022	3425	SIERRA JANITORIAL SUPPLY	BATH TISSUE, TOWELS, CLEANSER REFILL, TOILET SEAT COVERS	480.25
2993	06/06/2022	3810	TOMMY'S GARAGE	2016 FORD F450 DUMP TRUCK - OIL & FILTER CHANGE	159.93
2993	06/06/2022	3810	TOMMY'S GARAGE	17-02 REPLACE DRIVE BELT, REPLACE ENGINE AN CABIN FILTERS	1,013.39

Check Num	Check Issue Date	Vendor ID	Payee	Description	Amount
2995	06/06/2022	3940	UP-COUNTRY POOL CENTER		209.32
			SODIUM BICARBONATE		
2996	06/06/2022	4000	VOLCANO TELEPHONE COMPANY		503.17
			ACCT 100054 06/22		
2979	06/06/2022	1405	ELLISON SCHNEIDER HARRIS & DONLAN LLP		3,158.00
			IONE ENERGY ESHD #2097-WILDFLOWER		
2987	06/06/2022	2071	IW SOLAR LLC		10,791.65
			SOLAR PRODUCED-WWTP MAY 22		
2994	06/06/2022	3817	TOUCH FREE EXPRESS CAR WASH		200.00
			POLICE VEHICLE CAR WASH - MAY 2022		
2975	06/06/2022	732	CAL.NET INC		109.87
			INTERNET SERVICE AT EB HALL- MAY 22		
2986	06/06/2022	4685	IONE TRADING POST		4,083.71
			FIRE - FUEL		
2983	06/06/2022	4805	HOMETOWN GENERATORS LLC		150.00
			EVALYNN BISHOP HALL GENERATOR REPAIR		
2998	06/14/2022	25	ABC PLUMBING HEATING & AIR COND INC		646.88
			HYDRO JET INTERSECTION OF MARLETTE ST & S. MILLS ST		
2999	06/14/2022	30	ACES		282.49
			HOWARD PK BIN-06/22		
3000	06/14/2022	115	ALHAMBRA		112.51
			DRINKING WATER		
3001	06/14/2022	145	ALLIANT INSURANCE SERVICES INC		80.00
			ADD'L PREMIUM AUTO INSURANCE		
3002	06/14/2022	200	AMADOR COUNTY AUDITOR-CONTROLLER		25,563.87
			PROPERTY TAX ADMIN COSTS-FY 21-22		
3003	06/14/2022	315	AMADOR WATER AGENCY		6,562.04
			006352-002-CASTLEOAKS MEDIAN 3		
3004	06/14/2022	420	AT&T CALNET 3		222.68
			MO. PHONE SERV. BAN:9391064373 05/22		
3004	06/14/2022	420	AT&T CALNET 3		698.61
			MO. PHONE SERV. BAN:9391033961 05/22		
3004	06/14/2022	420	AT&T CALNET 3		22.43
			MO. PHONE SERV. BAN:9391037281 05/22		
3004	06/14/2022	420	AT&T CALNET 3		63.93
			MO. PHONE SERV. BAN:9391037282 05/22		
3005	06/14/2022	425	ATT MOBILITY		249.02
			ACCT 287309023056 - FD FIRSTNET 05/22		
3006	06/14/2022	875	CARBON COPY INC.		285.88
			TONER FOR COPIER		
3006	06/14/2022	875	CARBON COPY INC.		14.55
			SWS1045 TYPEWRITER RIBBON		
3006	06/14/2022	875	CARBON COPY INC.		35.87
			COPY EXPENSE FD - MAY 22		
3006	06/14/2022	875	CARBON COPY INC.		173.95
			COPY EXPENSE - MAY 22		
3007	06/14/2022	905	CASELLE INC.		1,813.00
			CONTRACT SUPPORT/MAINT - JUNE 2022		
3009	06/14/2022	1200	DAVID TAUSSIG & ASSOC. INC		855.00
			PROJECT D21-80266.000 IONE/ CFD 2005-2 IA 1 FY 21-22		
3009	06/14/2022	1200	DAVID TAUSSIG & ASSOC. INC		807.50
			PROJECT D21-80268.OS IONE/ CFD 2005-2 IA 3		
			PREPAYMENT		
3009	06/14/2022	1200	DAVID TAUSSIG & ASSOC. INC		47.50
			PROJECT D21-80269.000 IONE/ CFD 2006-1 1 FY 21-22		
3009	06/14/2022	1200	DAVID TAUSSIG & ASSOC. INC		142.50
			PROJECT D21-80270.000 IONE/ CFD 2009-3 1 FY 21-22		
3009	06/14/2022	1200	DAVID TAUSSIG & ASSOC. INC		285.00
			PROJECT D21-80266.000 IONE/ CFD 2005-2 IA 1 FY 21-22		
3009	06/14/2022	1200	DAVID TAUSSIG & ASSOC. INC		522.50
			PROJECT D21-80266.OS IONE/ CFD 2005-2 IA 1PREPAYMENT		

Check Num	Check Issue Date	Vendor ID	Payee	Description	Amount
3009	06/14/2022	1200	DAVID TAUSSIG & ASSOC. INC		47.50
				PROJECT D21-80268.000 IONE/ CFD 2005-2 IA 3 FY 21-22	
3009	06/14/2022	1200	DAVID TAUSSIG & ASSOC. INC		617.50
				PROJECT D21-80268.OS IONE/ CFD 2005-2 IA 3 PREPAYMENT	
3010	06/14/2022	1255	DEPARTMENT OF JUSTICE		311.00
				FINGER PRINTS	
3010	06/14/2022	1255	DEPARTMENT OF JUSTICE		257.00
				FINGER PRINTING - PD	
3011	06/14/2022	1545	FIRST SECURITY FINANCE INC.		3,494.32
				IONE-CA-2008-1 PRIN.-06/22	
3012	06/14/2022	1855	HASA		4,696.10
				MULTI-CHLOR	
3014	06/14/2022	1950	HUNT & SONS INC.		59.89
				FUEL - FIRE	
3016	06/14/2022	2005	IONE ACE HARDWARE		879.16
				PUBLIC WORKS - ACE PAINT BRUSH, SAND PAPER, SLEDGE HANDLE	
3017	06/14/2022	2040	IONE PHARMACY		10.55
				B/A FLX FABRIC AP 100 ASSORTED	
3018	06/14/2022	2310	LEDGER DISPATCH		27.15
				POLICE CHIEF JOB POSTING	
3018	06/14/2022	2310	LEDGER DISPATCH		27.15
				POLICE CHIEF JOB POSTING	
3020	06/14/2022	2910	PERC WATER INC.		34,036.73
				TERTIARY OPERATIONS 05/22	
3021	06/14/2022	2930	PG & E		45.51
				7283130664-1-PARK & RIDE MAIN	
3024	06/14/2022	3315	SANDY GULCH SIGN COMPANY		289.42
				2 150W BULBS, SERVICE CALL & INSTALL	
3025	06/14/2022	3485	SLAKEY BROTHERS INC.		145.47
				URINAL VC WHT DEXTER - EB HALL	
3027	06/14/2022	3570	STAPLES BUSINESS CREDIT		96.45
				7357359333-0-1 - FINANCE TONER	
3028	06/14/2022	3810	TOMMY'S GARAGE		558.74
				2016 CHEVROLET TAHOE BRAKES, OIL, WIPER BLADES	
3028	06/14/2022	3810	TOMMY'S GARAGE		306.59
				2009 PONTIAC G8 CHECK AC, ADD FREON, VALVE CAP KTI	
3028	06/14/2022	3810	TOMMY'S GARAGE		65.40
				20-02 2020 FORD EXPLORER OIL CHANGE - PD	
3028	06/14/2022	3810	TOMMY'S GARAGE		398.84
				2007 FORD F150 CHECK A/C, FIX FAN CLUTH, ADD FREON	
3029	06/14/2022	3940	UP-COUNTRY POOL CENTER		195.15
				SODIUM BICARBONATE	
3015	06/14/2022	1970	IC GROUP		115.33
				DEPOSIT SLIPS	
3030	06/14/2022	4050	WEATHERBY-REYNOLDS-FRITSON		262.50
				RESTROOM BUILDING & SITE PLAN REVISIONS - TRAIN DEPOT	
3023	06/14/2022	2996	PRENTICE LONG PC		7,808.01
				LEGAL SERVICES-MAY	
3013	06/14/2022	4605	HOOK'D		284.00
				SAFETY UNIFORMS - ROAD TAX	
3008	06/14/2022	4640	COMPUTER BROKERS AND SYSTEMS CORPORAT		2,918.00
				CITY IT SUPPORT MAR 2022	
3008	06/14/2022	4640	COMPUTER BROKERS AND SYSTEMS CORPORAT		1,571.10
				ACESS POINT EB HALL - GENERATOR	
3008	06/14/2022	4640	COMPUTER BROKERS AND SYSTEMS CORPORAT		4,736.69
				ARPA - FIREWALL UPGRADE	
3008	06/14/2022	4640	COMPUTER BROKERS AND SYSTEMS CORPORAT		2,155.00
				ARPA - OFFICE STANDARD 2021 FOR NEW PC ROLLOUT	

Check Num	Check Issue Date	Vendor ID	Payee	Description	Amount
3008	06/14/2022	4640	COMPUTER BROKERS AND SYSTEMS CORPORAT	ARPA - FIREWALL & PC ROLLOUT	4,000.00
3008	06/14/2022	4640	COMPUTER BROKERS AND SYSTEMS CORPORAT	CITY IT SUPPORT MAY 2022	2,918.00
3008	06/14/2022	4640	COMPUTER BROKERS AND SYSTEMS CORPORAT	HDMI CABLE - COUNCIL TV	53.86
3008	06/14/2022	4640	COMPUTER BROKERS AND SYSTEMS CORPORAT	ARPA - PHONE SYSTEM ROLLOUT	1,437.50
3008	06/14/2022	4640	COMPUTER BROKERS AND SYSTEMS CORPORAT	WASTEWATER - SERVER UPDATE/ MAINT	10,042.48
3008	06/14/2022	4640	COMPUTER BROKERS AND SYSTEMS CORPORAT	CITY IT SUPPORT JUN 2022	2,918.00
3026	06/14/2022	4680	SNG & ASSOCIATES INC.	CITY ENGINEERING SERVICES	6,168.00
3022	06/14/2022	4725	PIER & SON PAINTING	ARPA - CITY HALL PAINTING	7,980.00
3019	06/14/2022	4755	MILLARD, JULIE	POSTAGE REIMBURSEMENT	8.16
3031	06/15/2022	1200	DAVID TAUSSIG & ASSOC. INC	PROJECT D21-80266.000 IONE/ CFD 2005-2 IA 1 FY 21-22	1,092.50
3032	06/30/2022	10	8X8 INC.	VOIP PHONE GF MAY-JUN 22	762.99
3033	06/30/2022	25	ABC PLUMBING HEATING & AIR COND INC	ARPA - INTERCONNECT PROJECT - HYDRO VAC/ TV SEWER LINES	46,475.00
3034	06/30/2022	265	AMADOR COUNTY SHERIFF'S DEPT	MO. RIMS ACCESS FEE 05/22	524.97
3035	06/30/2022	425	ATT MOBILITY	ACCT 829264128	136.30
3037	06/30/2022	595	BLACKBAUD INC	FINANCIAL EDGE ACCOUNTING SYSTEM 2022-2023	15,500.58
3039	06/30/2022	875	CARBON COPY INC.	COPY EXPENSE FD - JUN 22	17.45
3039	06/30/2022	875	CARBON COPY INC.	COPY EXPENSE - JUN 22	176.08
3040	06/30/2022	1035	COASTLAND CIVIL ENGINEERING INC	864803 IONE - WILDFLOWER UNIT 1	4,785.00
3040	06/30/2022	1035	COASTLAND CIVIL ENGINEERING INC	864660-CITY ENGINEERING FY21-22	105.00
3040	06/30/2022	1035	COASTLAND CIVIL ENGINEERING INC	864668-IONE BLDG DEPT FY 21-22	697.50
3040	06/30/2022	1035	COASTLAND CIVIL ENGINEERING INC	864668-IONE BLDG DEPT FY 21-22	7,618.33
3040	06/30/2022	1035	COASTLAND CIVIL ENGINEERING INC	864803 IONE - WILDFLOWER UNIT 1	520.00
3040	06/30/2022	1035	COASTLAND CIVIL ENGINEERING INC	864660-CITY ENGINEERING FY21-22	52.50
3040	06/30/2022	1035	COASTLAND CIVIL ENGINEERING INC	864668-IONE BLDG DEPT FY 21-22	617.50
3040	06/30/2022	1035	COASTLAND CIVIL ENGINEERING INC	864668-IONE BLDG DEPT FY 21-22	1,844.05
3042	06/30/2022	1200	DAVID TAUSSIG & ASSOC. INC	DE21-80271.00 - IONE/DIF AND NEXUS STUDY	4,566.70
3043	06/30/2022	1220	DE LAGE LANDEN INC.	MONTHLY COPIER LEASE 07/22	340.50
3044	06/30/2022	1375	ECO URBAN DESIGNS INC.	LANDSCAPE MAINT-CO GOLF COURSE 05/22	2,644.00
3044	06/30/2022	1375	ECO URBAN DESIGNS INC.	CONSULT/TESTING TERTIARY 05/22	2,542.00
3047	06/30/2022	2310	LEDGER DISPATCH	PUBLIC NOTICE- RFP CITY ENGINEER	125.55

Check Num	Check Issue Date	Vendor ID	Payee	Description	Amount
3049	06/30/2022	2930	PG & E		8,706.23
				7283130664-1-PARK & RIDE MAIN	
3052	06/30/2022	3275	SAFE T LITE		94.39
				24" X 30" CUSTOM SIGN -HOWARD PK- BASEBALL	
3053	06/30/2022	3655	SUN BADGE COMPANY		127.10
				BADGES	
3057	06/30/2022	4105	WILBUR-ELLIS COMPANY		2,715.30
				ROUND PRO CONCENTRATE, GARLON 4 ULTRA, VAQUERO	
				HERBICIDE	
3050	06/30/2022	3048	QUADIENT LEASING USA INC.		493.90
				POSTAGE MACHINE LEASE	
3055	06/30/2022	3817	TOUCH FREE EXPRESS CAR WASH		200.00
				POLICE VEHICLE CAR WASH - JUNE 2022	
3038	06/30/2022	732	CAL.NET INC		117.37
				INTERNET SERVICE AT EB HALL- JUN 22	
3051	06/30/2022	4405	RICHARDSON & COMPANY LLP		11,000.00
				ADDITIONAL BILLING AUDIT SERVICES FOR FY 18/19	
3046	06/30/2022	4685	IONE TRADING POST		4,313.60
				PUBLIC WORKS - FUEL	
3036	06/30/2022	4745	BENEFIT COORDINATORS CORP.		2,690.35
				DENTAL - ROADS	
3056	06/30/2022	4765	WEST YOST ASSOCIATES		20,455.56
				ARPA - INTERCONNECT PIPELINE PROJECT	
3056	06/30/2022	4765	WEST YOST ASSOCIATES		13,085.50
				ARPA - INTERCONNECT PIPELINE PROJECT	
3056	06/30/2022	4765	WEST YOST ASSOCIATES		4,631.50
				ARPA - INTERCONNECT PIPELINE PROJECT	
3041	06/30/2022	4810	CRESO RESTAURANT EQUIPMENT		3,970.46
				QUOTE # QS-214705 NEO UNDERCOUNTER ICE MAKER	
3054	06/30/2022	4820	TAMMY COCHRAN		50.70
				ACCT 1436.01 107 OAK RIDGE DR. PROPERTY SOLD	
				REIMBURSEMENT	
3048	06/30/2022	4825	MURPHYS FIRE PROTECTION DISTRICT		375.00
				TORY GOLD - AH 330 ST/TF LEADER CLASS	
3045	06/30/2022	4830	FRANTZ LOCKSMITH SERVICE		520.00
				CHANGE DIAL ON SAFE TO DIGITAL LOCK	
Grand Totals:					362,106.81

Dated: _____

Mayor: _____

City Council: _____

City Recorder: _____



CITY OF IONE

WARRANT REGISTER

JULY 2022

Report Criteria:

Report type: Invoice detail

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Check Num	Check Issue Date	Vendor ID	Payee	Description	Amount
3058	07/20/2022	30	ACES	DUMP CHARGES	62.29
3058	07/20/2022	30	ACES	HOWARD PK BIN-07/22	282.49
3059	07/20/2022	115	ALHAMBRA	DRINKING WATER	132.65
3060	07/20/2022	160	AMADOR AIR DISTRICT	PERMIT # 199-01-001 FY 22-23	207.63
3061	07/20/2022	200	AMADOR COUNTY AUDITOR-CONTROLLER	AMADOR CO LOCAL AGENCY FORMATION COMMISSION - FY 22-23	6,890.00
3062	07/20/2022	265	AMADOR COUNTY SHERIFF'S DEPT	MO. RIMS ACCESS FEE 06/22	525.17
3063	07/20/2022	315	AMADOR WATER AGENCY	005018-002-FIRE STATION #1	10,954.20
3063	07/20/2022	315	AMADOR WATER AGENCY	005018-021-HYDRANT METER	2,366.01
3065	07/20/2022	420	AT&T CALNET 3	MO. PHONE SERV. BANK:9391064373 07/22	222.68
3065	07/20/2022	420	AT&T CALNET 3	MO. PHONE SERV. BAN:9391033961 07/22	597.04
3065	07/20/2022	420	AT&T CALNET 3	MO. PHONE SERV. BAN:9391037281 07/22	22.43
3065	07/20/2022	420	AT&T CALNET 3	MO. PHONE SERV. BAN:9391037282 07/22	63.93
3066	07/20/2022	425	ATT MOBILITY	ACCT 287312741394 - PD FIRSTNET 06/22	405.79
3066	07/20/2022	425	ATT MOBILITY	ACCT 287314845930	2,131.31
3066	07/20/2022	425	ATT MOBILITY	ACCT 829264128	59.72
3068	07/20/2022	540	BENEFIT COORDINATORS CORPORATION	LIFE INSURANCE & AD&D BENEFITS - JUL 2022	360.95
3069	07/20/2022	800	CALIFORNIA OVERHEAD DOOR INC	FIRE DEPT. #2 DOOR REPAIRS	448.26
3070	07/20/2022	895	CASCADE FIRE EQUIPMENT CO	HOSE PT-800 2.5" X 25', HOSE, PF-600 5" X 25'	1,002.08
3070	07/20/2022	895	CASCADE FIRE EQUIPMENT CO	HOSE PT-800 2.5" X 25', HOSE, PF-600 5" X 25'	424.64
3071	07/20/2022	905	CASELLE INC.	CONTRACT SUPPORT/MAINT - JUL 2022	1,813.00
3072	07/20/2022	1035	COASTLAND CIVIL ENGINEERING INC	864660-CITY ENGINEERING FY21-22	52.50
3072	07/20/2022	1035	COASTLAND CIVIL ENGINEERING INC	863506-CASTLE OAKS VILLAGE 8	52.50
3072	07/20/2022	1035	COASTLAND CIVIL ENGINEERING INC	864668-IONE BLDG DEPT FY 21-22	65.00
3073	07/20/2022	1255	DEPARTMENT OF JUSTICE	FINGER PRINTS	157.00
3075	07/20/2022	1545	FIRST SECURITY FINANCE INC.	IONE-CA-2008-1 PRIN.-07/22	3,494.32
3077	07/20/2022	1950	HUNT & SONS INC.	HUNT FUEL - FIRE	84.92
3078	07/20/2022	2005	IONE ACE HARDWARE	FD - ACE BTR OIL, ACE ENG OIL	960.33
3079	07/20/2022	2040	IONE PHARMACY	SHARPIE FINE BLACK 2	3.87

M = Manual Check, V = Void Check

Check Num	Check Issue Date	Vendor ID	Payee Description	Amount
3079	07/20/2022	2040	IONE PHARMACY GLUTOSE - 15 GEL (MEDICAL RESTOCK)	87.45
3082	07/20/2022	2375	LIFE- ASSIST INC ALUMINUM OXYGEN CYLINDER (\$100.00 DONATION)	236.62
3082	07/20/2022	2375	LIFE- ASSIST INC PHILIPS HEARTSTART FRX SMART PADS II SET	824.55
3082	07/20/2022	2375	LIFE- ASSIST INC SUPRENO SE NITRILE EXAM GLOVE, X-LARGE	474.10
3082	07/20/2022	2375	LIFE- ASSIST INC SUPRENO SE NITRILE EXAM GLOVE, X-LARGE	474.10
3084	07/20/2022	2570	MEEKS-WESTERN BUYERS LLC 348ABM - 3/4" 4X8 AB MARINE 7 PLY RETURN, 238CC - .703IN 4X8 CC PLY PURCHASE	101.86
3085	07/20/2022	2635	MISSION IT SOLUTIONS INC. OFFICE 365 EMAIL HOSTING	327.50
3087	07/20/2022	2775	NORTHERN CALIF CITIES SELF INS LIABILITY & PROPERTY INSUR FY 22/23	262,244.00
3087	07/20/2022	2775	NORTHERN CALIF CITIES SELF INS WORKERS COMP-1ST QTR FY 21/22	27,714.50
3089	07/20/2022	2910	PERC WATER INC. TERTIARY OPERATIONS 06/22	34,036.73
3090	07/20/2022	2930	PG & E 7090487111-1-DEPOT PARK	1,536.57
3091	07/20/2022	2950	PINNACLE ALARM ALARM MONITORING 4/1/22 - 6/30/22	105.00
3094	07/20/2022	3090	RAY'S RADIO SHOP INC 7 - REPAIR MINITOR V PAGERS	1,155.00
3086	07/20/2022	3145	NAPA AUTO PARTS 902021 - FD RESCUE 6 SWITCH	142.39
3095	07/20/2022	3415	SIERRA FOOTHILL FIRE EXTINGUISHER FIRE EXTINGUISHER MAINT & REPAIRS	84.07
3098	07/20/2022	3570	STAPLES BUSINESS CREDIT 7357580688-01-1 - POST ITS, PACKING TAPE, PENS, NOTEPADS, CLIPS, PAPER	268.32
3101	07/20/2022	4000	VOLCANO TELEPHONE COMPANY ACCT 63360 07/22	428.27
3104	07/20/2022	4105	WILBUR-ELLIS COMPANY ESPLANADE 200 SC/AGENCY 2-2.5 GA JU BYER 2.5 GAL	3,487.76
3104	07/20/2022	4105	WILBUR-ELLIS COMPANY CLEARCAST/ AGENCY 2-1 GA JU SPRO 2 GAL	646.24
3104	07/20/2022	4105	WILBUR-ELLIS COMPANY ROUNDUP PRO CONCENTRATE, GARLON 4 ULTRA	1,153.79
3105	07/20/2022	4125	WIN-911 SOFTWARE ANNUAL SOFTWARE MAINT	495.00
3074	07/20/2022	1405	ELLISON SCHNEIDER HARRIS & DONLAN LLP IONE ENERGY - ESHD #2097-WILDFLOWER	1,632.00
3088	07/20/2022	2825	O'REILLY AUTO PARTS 1997 FORD F-150 COOLANT HOSE & 2 GALLONS OF ANTIFREEZE	51.42
3100	07/20/2022	3855	TURF STAR INC MOWER WHEELS - 2	342.82
3102	07/20/2022	4050	WEATHERBY-REYNOLDS-FRITSON TRAIN DEPOT ENGINEER SERVICES	375.00
3064	07/20/2022	403	ASHWORTH APPRAISAL SERVICES OF SUTTER C LAND APPRAISAL	450.00
3099	07/20/2022	3817	TOUCH FREE EXPRESS CAR WASH POLICE VEHICLE CAR WASH - JULY 2022	200.00
3096	07/20/2022	4490	SMITH & ASSOCIATES APPRAISL OF 24 SOUTH CHURCH STREET	1,500.00
3083	07/20/2022	4530	MCCLATCHY COMPANY LLC PUBLIC NOTICE - RFP ENGINEERING FIRM	359.53

Check Num	Check Issue Date	Vendor ID	Payee Description	Amount
3097	07/20/2022	4680	SNG & ASSOCIATES INC. CITY ENGINEERING SERVICES	3,510.00
3067	07/20/2022	4745	BENEFIT COORDINATORS CORP. VISION - PUBLIC SAFTEY POLICE	2,617.30
3103	07/20/2022	4765	WEST YOST ASSOCIATES ARPA - INTERCONNECT PIPELINE PROJECT	1,486.50
3106	07/20/2022	4765	WEST YOST ASSOCIATES ARPA - INTERCONNECT PIPELINE PROJECT	3,510.00
3080	07/20/2022	4835	KRISTINE CAPUTO REFUND SEWER OVERPAYMENT	700.00
3092	07/20/2022	4840	PRISM POLLUTION COVERAGE 07/01/2022-06/30/2023	4,698.00
3093	07/20/2022	4845	RANDIK PAPER JANITORIAL SUPPLIES	516.43
3093	07/20/2022	4845	RANDIK PAPER RETURN LIVI BASIC 2PLY TP	57.71-
3093	07/20/2022	4845	RANDIK PAPER JANITORIAL SUPPLIES	112.61
3081	07/20/2022	4850	LAPLANT, ASHLEY REFUND RENTAL DEPOSIT	122.10
3076	07/20/2022	4855	HARDY, EILEEN REFUND SEWER OVERPAYMENT	40.70
Grand Totals:				392,033.23

Dated: _____

Mayor: _____

City Council: _____

City Recorder: _____

Report Criteria:

Report type: Invoice detail

Check.Type = {<>} "Adjustment"

Agenda Item

#3

DATE: August 2, 2022

TO: Mayor Epperson and City Council

FROM: Michael Rock, Interim City Manager
Todd Waklee, Public Works Manager
Julie Millard, Management Analyst

SUBJECT: Receive and File Lone Public Works Department 2022 2nd Quarter Report

RECOMMENDED ACTION:

1. Receive and file Lone Public Works Department 2022 2nd Quarter Report.

FISCAL IMPACT:

There is no fiscal impact associated with this item.

BACKGROUND:

This quarterly report is for the months of April through June 2022. This report is designed to give you an understanding of the day to day operations of the Lone Public Works Department (Department) and staff for the 2nd quarter of 2022.

The Department's performance metrics are a work in progress and staff are currently developing new systems and processes for tracking/quantifying certain activities for reporting purposes. As these systems and processes are put in place, the Department will provide additional reporting detail to its quarterly reports.

ATTACHMENTS:

Summary – 2022 2nd Quarter Report



City of Ione
Public Works Department

2022 Second Quarter Report





Permit Summary Report by Permit Type

Permit Date 04/01/2022 TO 06/30/2022

	APRIL	MAY	JUNE	TOTAL
Building	\$2,497.89	\$5,126.71	\$7,006.66	\$14,631.26
Electrical	\$5,391.05	\$2,732.45	\$2,113.76	\$10,237.26
Mechanical	\$387.00	\$663.00	\$1,050.00	\$2,100.00
New SFD	\$72,595.10	\$0	\$0	\$72,595.10
Plumbing	\$0	\$0	\$0	\$0
Totals	\$80,871.04	\$8,522.16	\$10,170.46	\$99,563.62

Building = Pools, patio covers, remodels

Electrical = Mostly solar & meter upgrades

Mechanical = HVAC

Plumbing = New gas lines / HWH



Permit Summary Report by Inspection Type

Inspection Date 04/01/2022 TO 06/30/2022

	APRIL	MAY	JUNE	TOTAL
Consultation	0	3	6	9
Demo	3	0	0	3
Drywall	12	8	8	28
Electrical	1	3	1	5
Electrical Panel	8	0	0	8
Electrical Panel – Meter Tag	8	8	5	21
Energy	0	0	0	0
Final Building Inspections	0	0	0	0
Final Department Inspections	0	2	0	2
Final Inspections	21	21	19	61
Footings/Underground Plumbing	11	3	5	19
Footings	3	1	1	5
Frame, Rough MEP	14	8	8	30
Framing	2	1	3	6
Gas Line Approval – Yellow Tag	10	7	8	25
Grading – (ADA & non-ADA)	0	0	0	0
HVAC Final	0	3	4	7
Inspection	0	2	1	3
Lath	12	9	9	30
Mechanical	0	0	0	0
Plumbing	0	0	0	0
Pool/Spa	6	7	10	23
Re-Roof - Final	3	5	2	10
Roof Nail	5	8	10	23
Sewer Lateral	14	6	0	21
Shear Nailing	4	8	10	22
Solar P/V Final	3	2	6	11
Structural Slab	11	5	10	26
Water Heater	0	1	0	1
Water Lateral	14	8	0	22
TOTALS	157	129	126	412



Miscellaneous Items by Type

Report Period 04/01/2022 TO 06/30/2022

	APRIL	MAY	JUNE	TOTAL
EB Hall Rental*	5	2	5	12
Amphitheater	-	1	1	2
Bathroom Rental **	-	1	2	3
Sports Fields***	-	-	3	3
Special Events	2	1	-	3
Arena Activity (Day Use)	-	-	11	11
Banners	1	1	-	2
Light Repair Requests	2	1	1	4
Misc. Work Orders	3	1	2	6
Complaints Handled	1	1	1	3
Tree Permit Inspections				
TOTALS	14	10	26	49

*Number of Events (not days rented)

**EB Hall and Soccer

***Soccer & Baseball – events held outside of MOU's

Rental Revenues Report

Report Period 04/01/2022 TO 06/30/2022

Start Date	End Date	Account	Description	Amount
4/1/2022	6/30/2022	1111-44-4421	EB Hall Revenue	\$2,594.06
4/1/2022	6/30/2022	1111-44-4421	EH Arena Rental	\$294.00



PUBLIC WORKS OPERATIONS SCHEDULE*

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
NEW DEVELOPMENT	Daily on-call subdivision inspections	Daily on-call subdivision inspections	Daily on-call subdivision inspections	Daily on-call subdivision inspections	Daily on-call subdivision inspections
GROUPS MAINTENANCE	Drag Arena	Drag Arena	Drag Arena (Feb/Mar to Dec) Mow in-town parks, Picnic Hill	Drag Arena (Feb/Mar to Dec) Mow baseball and soccer fields	Drag Arena
WASTEWATER TREATMENT PLANT	Daily meeting with PERC Staff for oversight of operations	Daily meeting with PERC Staff for oversight of operations	Daily meeting with PERC Staff for oversight of operations	Daily meeting with PERC Staff for oversight of operations	Daily meeting with PERC Staff for oversight of operations
PUBLIC HEALTH	Empty dog waste containers at all City facilities				Empty dog waste containers at all City facilities
	Clean City Hall, skatepark and arena restrooms	Clean City Hall, skatepark and arena restrooms	Clean City Hall, skatepark and arena restrooms	Clean City Hall, skatepark and arena restrooms	Clean City Hall, skatepark and arena restrooms
PARKS & RECREATION	After every rental event do a facility walkthrough.				Prior to any rental event do a facility walkthrough.
	Year-round chemical level checks at pools.	Year-round chemical level checks at pools.	Year-round chemical level checks at pools.	Year-round chemical level checks at pools.	Year-round chemical level checks at pools.
CALTRANS MAINTENANCE AGREEMENT					Every other week, sweep Main Street and Preston Ave. per Caltrans MA. (Swept 7/22)

As-needed basis – Spray weeds, trim trees around signs (site distance), patch holes (potholes).

As-needed basis – Sweep entire city (takes 3 days each time)

As-needed basis – Additional street sweeping for special events.

*This schedule is subject to adjustment without notice due to unforeseen events, circumstances, staffing, etc.

**GROUNDWATER MONITORING REPORT
SECOND QUARTER 2022**

**THE CITY OF IONE
CASTLE OAKS GOLF COURSE
IONE, CA 95640**

Submitted on
July 29, 2021

Prepared for
**THE CITY OF IONE
1 EAST MAIN STREET
IONE, CA 95640**

Prepared by
EcoUrban Associates
PO Box 411
Ione, CA 95640

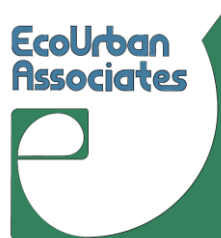


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3.0 MONITORING AND REPORTING REQUIREMENTS	2	–
4.0 FIELD OBSERVATIONS	2	–
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8.0 RECOMMENDATIONS	6	–
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Figure 1	Site Vicinity Map
Figure 2	Site Map Showing Well Locations
Figure 3	Groundwater Gradient Map
Figure 4	Hydrograph
Figure 5	Total Coliform Bacteria in Groundwater
Figure 6	Nitrates (as Nitrogen) in Groundwater
Figure 7	Ammonia (as Nitrogen) in Groundwater
Figure 8	Total Dissolved Solids in Groundwater
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Figure 10	Total and Dissolved Iron in Groundwater
Figure 11	Total and Dissolved Manganese in Groundwater
Figure 12	pH in Groundwater

TABLES

Table 1 Historical Groundwater Data

ATTACHMENTS

Attachment 1 Field Sheets and Calibration Records

Attachment 2 Laboratory Analytical Reports

**QUARTERLY MONITORING REPORT
SECOND QUARTER 2022
Order No. 5-00-182
CITY OF IONE
1 E. MAIN ST.
IONE, CA 95640**

1.0 INTRODUCTION

This groundwater monitoring report describes the results of the Second Quarter 2022 Groundwater Monitoring event conducted at the Castle Oaks Golf Course (COGC) in Ione, CA on June 12th and 15th, 2022. This Report has been prepared to satisfy reporting requirements in the Revised Monitoring and Reporting Program (MRP) No. 93-240 dated April 17, 2001. The MRP was developed to monitor compliance with Water Reclamation Requirements (WRR) Order No. 93-240. The WRR prohibits the degradation of any water supply resulting from the discharge of tertiary water at the COGC. This Report has been submitted to the City of Ione (City) for review and comment and is submitted by EcoUrban Associates (EUA) to the California Regional Water Quality Control Board, Central Valley Region (Regional Board) on the City's behalf.

2.0 SITE DESCRIPTION

The COGC is located in Ione Valley approximately one mile northwest of Ione. The Mule Creek State Prison Wastewater Treatment Plant and disposal spray fields are located upgradient (northeast) from the site and the City Tertiary Treatment Plant (Treatment Plant) is located downgradient (southwest) of the COGC. A Vicinity Map is shown on **Figure 1**. The Treatment Plant water is treated to Title 22 standards and pumped to storage ponds on the COGC for seasonal irrigation. Mule Creek flows through the site from north to south, then east to west. Sutter Creek forms the south boundary of the COGC.

The COGC topography slopes toward the southwest and elevations range from 260 to 300 feet above mean sea level. Three groundwater wells at the COGC monitor for impacts to the beneficial uses of the groundwater. Well CO MW-1 is located in the upgradient area (northeast) and CO MW-2 and CO MW-3 are located in the downgradient area (southwest). In addition to the monitoring wells, depth-to-water measurements are collected from piezometers CO P-1, CO P-2, and CO P-4 located west of the Treatment Plant and from wells and piezometers at the City Wastewater Treatment Plant (WWTP) south of Sutter Creek. A map showing the well locations is provided as **Figure 2**. COGC

groundwater elevation data are combined with data from the WWTP and displayed on the Potentiometric Surface Map on **Figure 3**.

EUA personnel performed groundwater monitoring and sampling in COGC. The samples were delivered to Pace Analytical. within the required holding times following chain-of-custody procedures. Field forms are provided in **Attachment A** and laboratory analytical results are in **Attachment B**.

3.0 MONITORING AND REPORTING REQUIREMENTS

The Revised MRP No. 93-240 specifies quarterly monitoring for groundwater elevations, total coliform organisms (TCO), nitrate as nitrogen (nitrate-N), ammonia as nitrogen (ammonia-N), total dissolved solids (TDS), and pH. In addition, the City monitors for dissolved oxygen (DO), oxidation reduction potential (ORP), and electrical conductivity (EC) measurements are collected at the time of sampling.

Monitoring and sampling were performed by EUA personnel trained in the operation of field-testing instruments. The field technician training includes instrument calibration in compliance with the manufacturer's recommended procedures and frequencies. Instrument calibration records are included on the field observation sheets in **Attachment A**.

4.0 FIELD OBSERVATIONS

On June 12th and 15th, 2022, quarterly monitoring was performed and included the collection of a depth-to-water measurements from wells using an electrical sounding tape decontaminated between uses. EUA used dedicated bailers that have been kept uncontaminated within the well casing. All wells were purged of at least three casing volumes of water using dedicated disposable bailers. Field parameters were recorded during purging using appropriate and pre-calibrated meter. Purge rates ranged from approximately 1 to 2 gallons per minute (gpm). All wells recovered immediately to at least 80 percent of the pre-purge depth to water before sampling.

No sheens or odors were observed during purging. The purge water from all three wells had slight to moderate levels of turbidity. Field parameters appeared stable at the time of sampling. Field observation sheets are in **Attachment A**. Field data results are summarized in **Table 1 and Table 2**.

Table 1 - Groundwater Elevation Data

Location ID	Measuring Point Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	Well Screen Elevation (ft)
CO MW-1	280.28	11.94	268.34	263 to 273
CO MW-2	272.01	13.01	259.00	249 to 264
CO MW-3	264.86	11.19	253.67	235 to 253

Table 2 - Groundwater Chemistry Data

Monitoring Well	Temperature (°C)		pH (SU)	Electric Conductivity (μmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Field TDS (mg/L)
CO MW-1	19.6		6.31	463	2.36	200	328
CO MW-2	17.0		5.52	1,060	1.85	223	760
CO MW-3	18.3		6.21	668	1.92	201	475

5.0 LABORATORY ANALYTICAL RESULTS

The data results required by the Revised MRP are summarized in **Table 3**. Laboratory Certificates of Analysis are included in **Attachment B**. The historical analytical data are tabulated in the Tables section.

Table 3 - Analytical data from Second Quarter 2022 sampling event

Sample ID	Date	Total Coliform Bacteria (TCO)	Nitrate (as N) ¹	Ammonia	Total Dissolved Solids (TDS)	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese
<i>Analysis Method:</i>		SM 9221 B	EPA 300.0	SM4500	SM2540C	EPA 206.3	EPA 206.3	EPA 8260
<i>Units:</i>		MPN/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CO MW-1	6/15/22	<1.8	8.0	0.11	380	<0.00038	<0.030	0.0029
CO MW-2	6/15/22	33	0.38	0.11	870	<0.00038	<0.030	0.023
CO MW-3	6/15/22	79	1.00	0.088	560	0.00074	<0.030	0.11

6.0 DISCUSSION

In upgradient well CO MW-1, the groundwater elevation is typically highest in the first or second (and sometimes the third) quarter, and lowest in the third quarter. In downgradient wells CO MW-2 and CO MW-3, the groundwater elevation is typically highest in the first quarter and lowest in the third quarter. The groundwater elevation decreased from the previous quarter in all three monitoring wells (CO MW-1 decreased 1.02 feet; CO MW-2 decreased 0.74 feet; and CO MW-3 decreased 1.14 feet). The average groundwater elevation change was a 0.97-foot decrease. Consistent with historical measurements, the piezometric surface of the groundwater table generally slopes to the southwest at approximately 0.004-0.007 feet per foot (ft/ft). Seasonal groundwater typically fluctuates approximately 3-5 feet in site wells. Hydrographs of site wells are shown in **Figure 4**.

No groundwater limitations are specified in the MRP. In the absence of specified limitations, laboratory results are compared to primary and secondary maximum containment levels (MCL) for drinking water published by the Regional Board. Because high concentrations of many parameters occur naturally in groundwater at the site, an exceedance of an MCL does not necessarily indicate a degradation of background water quality. The groundwater analytical data is tabulated in Attachment A.

This quarter TCO levels were non-detect to moderate in the three wells <1.8 MPN/100mL in CO MW-1; 33 MPN/100mL in CO MW-2; and 79 MPN/100mL in CO MW-3) with MW-2 and MW-3 being above the Primary MCL (2.2 MPN/100mL). All three wells have a history of TCO detection starting in 2010 and were disinfected using chlorine in May 2013 and also in 2019, a week before the 3rd quarter 2019 sampling event. The intermittent detections of TCO that is most likely due to natural bacteria present in the surrounding groundwater, not merely in the well itself. These detections may be due to natural bacteria in the groundwater and are not historically considered a result of effluent discharges. Historical coliform values collected from groundwater during quarterly monitoring are graphed on **Figure 5**.

Nitrate-N levels were below the primary MCL of 10 milligrams per liter (mg/L) in all monitoring wells. The highest nitrate-N concentrations are at upgradient well CO MW-1 (8.0 mg/L). Upgradient sources and/or other site uses may influence nitrate-N in CO MW-1 but a watershed-wide groundwater evaluation has not been conducted. Downgradient wells have historically shown lower detection levels near to the method practical quantitation limit (PQL). Fluctuations in nitrate-N concentrations with time are shown on **Figure 6**.

Levels of ammonia-N were detected at trace levels in all of the three monitoring wells this quarter (0.11 mg/L in CO MW-1; 0.11 mg/L in CO MW-2; and 0.088 mg/L in CO MW-3). All levels were well below the secondary MCL of 1.5 mg/L. Historical ammonia-N concentrations are graphed on **Figure 7**.

The TDS in CO MW-2 (870 mg/L) and MW-3 (560 mg/L) was detected at or above the 500 mg/L secondary MCL for drinking water. Well CO MW-1 was sampled below MCLs. Since monitoring began in 2002, TDS in CO MW-2 has ranged from 600 mg/L to 1,700 mg/L. Well CO MW-2 is said to have been completed in clastic sediments of the Modesto Formation. There is no indication that the source of the high TDS at CO MW-2 is from the Treatment Plant effluent. TDS in all wells were within the range of historical values. TDS:EC ratios for natural waters typically range from 0.55 to 0.75. The TDS:EC ratio ranged from 0.82 to 0.84 this quarter with an average of 0.83. Groundwater and effluent TDS values are graphed on **Figure 8**.

Dissolved arsenic was detected at trace to non-detectable levels in the three monitoring wells this sampling event. Testing for arsenic is not required in the MRP. Sample results were all near or below the primary MCL of 0.00038 mg/L. The fluctuations with time of arsenic are shown on **Figure 9**.

Dissolved manganese was detected at relatively low to trace levels in all three monitoring wells. Levels were highest in CO MW-3 (0.11 mg/L) at concentrations just above the secondary MCLs of 0.05 mg/L. MW-3, historical manganese and iron values typically exceed the secondary MCL. It is very possible that these trace-detected levels are from naturally existing conditions of the lateritic bedrock immediately west of the local groundwater table.

Dissolved iron was not detected in any wells. Dissolved iron levels from all wells were below the secondary MCL this quarter. Testing for iron and manganese is not required in the MRP. The fluctuations with time of iron and manganese in groundwater are shown on **Figures 10 and 11**, respectively.

Dissolved oxygen (DO) measurements were above 2.0 mg/L for monitoring well CO MW-1 (2.36 mg/L). Levels in CO MW-2 and CO MW-3 were slightly below 2.0 mg/L (1.85 mg/L and 1.92 mg/L, respectively). Site wells have been monitored for dissolved oxygen and oxidation reduction potential (ORP) since 2009. The low ORP condition (<10 mV) in groundwater is likely due to aerobic and anaerobic bacterial in the groundwater.

The field pH was measured in CO MW-1 (6.31 SU), CO MW-2 (5.52 SU) and CO MW-3 (6.21 SU). All wells were outside the secondary MCL range of 6.5 to 8.5 standard units (SU). Instrument calibration sheets are shown with the field documents in **Attachment A**. Values for pH in CO MW-1, CO MW-2, and CO MW-3 are shown on **Figure 12**.

7.0 CONCLUSIONS

Groundwater monitoring at COGC indicates compliance with the MRP and the Standard Provisions and Reporting Requirements.

Coliform levels remain variable but consistent with natural background levels.

The nitrate-N concentrations did not exceed the water quality objective of 10 mg/L in any wells.

TDS in CO MW-2 exceeded the secondary MCL of 500 mg/L. The elevated TDS in CO MW-2 is likely not a result of TDS in the effluent tertiary-treated water applied at the COGC but instead characteristic of localized natural conditions.

Dissolved iron concentrations were not detected from any wells this quarter. Dissolved manganese concentrations exceeded the secondary MCL levels for one of the wells (0.11 mg/L in CO MW-3) analyzed this quarter. The secondary MCL is not a health-based limit and testing of the effluent for manganese is not required by the MRP.

Dissolved manganese, iron, and arsenic do not appear to be influenced by COGC discharges and are not required by the MRP.

8.0 RECOMMENDATIONS

EcoUrban Associates recommends the following:

- A reduction in sampling frequency (such as semi-annual) might be warranted given the degree of groundwater characterization that has been established from previous sampling events.

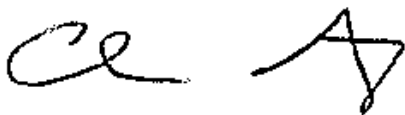
9.0 LIMITATIONS AND SIGNATURE

This report has been prepared under the direct supervision of a Professional Geologist in the State of California. The standard of care for all services performed or furnished by EcoUrban Associates is the care and skill ordinarily used by members of the environmental profession practicing under similar conditions at the same time in the same locality. EcoUrban Associates is not responsible for the accuracy and completeness of information collected and developed by others.

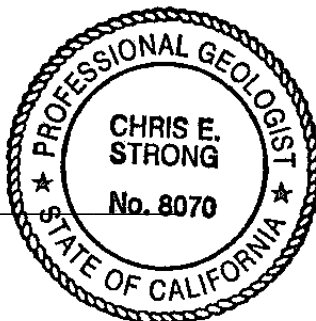
This Report was prepared for the sole use of the City and may not be used or relied upon by any other person(s) without the express written consent and authorization of the City and EcoUrban Associates. If any changes are made or errors found in the information used for this Report, the interpretations and conclusions contained herein shall not be considered valid unless the changes or errors are reviewed EcoUrban Associates and either appropriately modified or re-approved in writing. Any questions regarding the content of this document should be directed to the City Manager for lone, at 209.274.2412, extension 101, or to Christopher Strong of EcoUrban Associates at 209.487.4802.

Respectfully submitted,

EcoUrban Associates



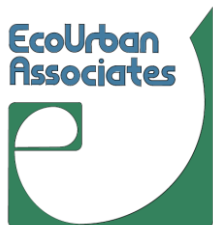
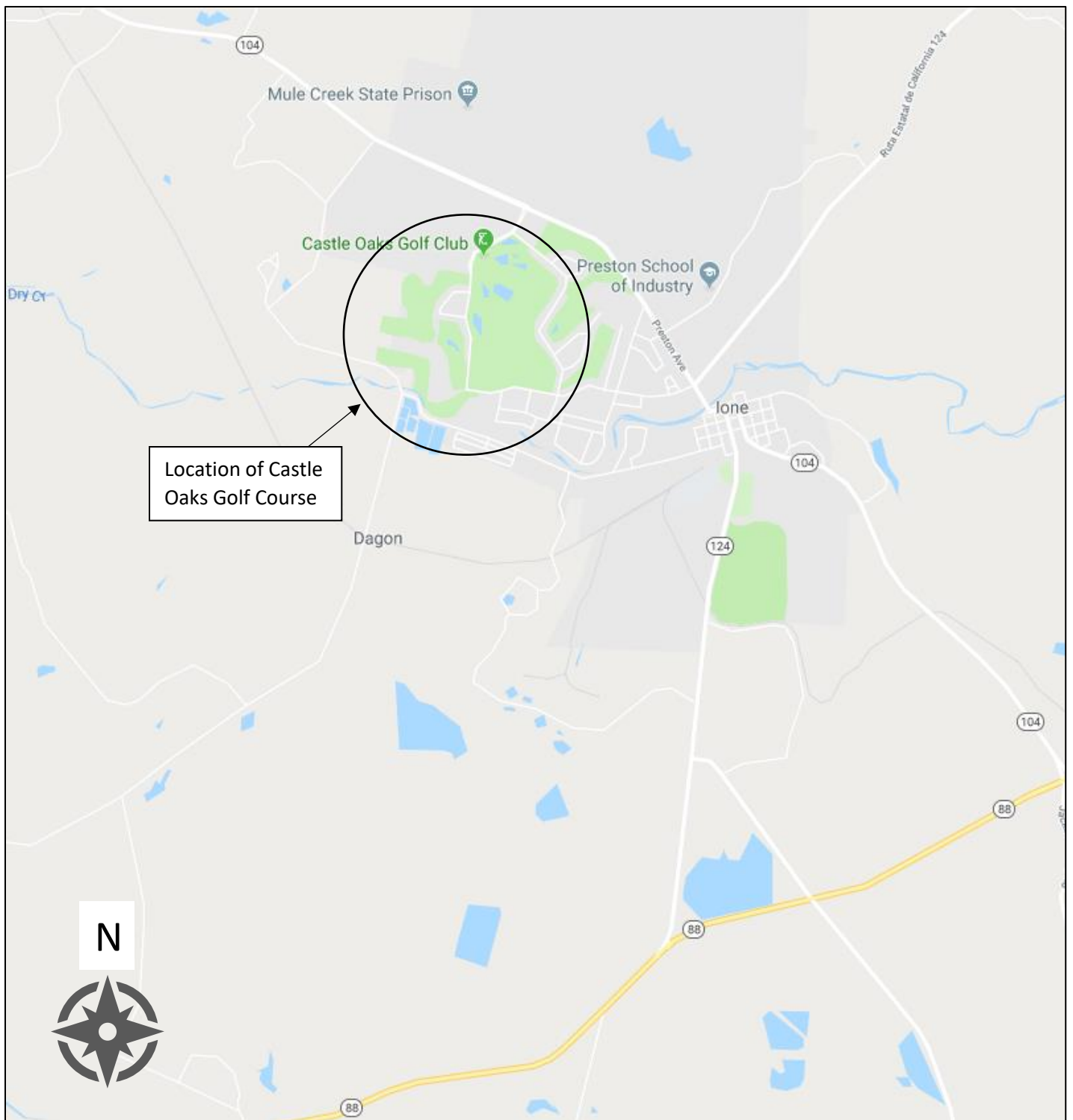
(Signature)
Christopher Strong, PG #8070
Geologist
EcoUrban Associates



FIGURES

Site Maps and Time Trend Plots





EcoUrban Associates
PO Box 411
Lone, CA 95640
(209) 487-4802

Figure 1
Site Vicinity Map
City of Lone
Castle Oaks Golf Course
Lone, CA

Project No.: AMA.104.01

Drawn by: CES

Dated: 04/16/18

Scale: 1" = 3,000'

Rev'd by: CES



Figure 3
Groundwater Gradient Map
Second Quarter 2022
Castle Oaks Golf Course
City of Lone
lone, California

Figure 4 - Hydrographs
City of Lone - Castle Oaks Golf Course

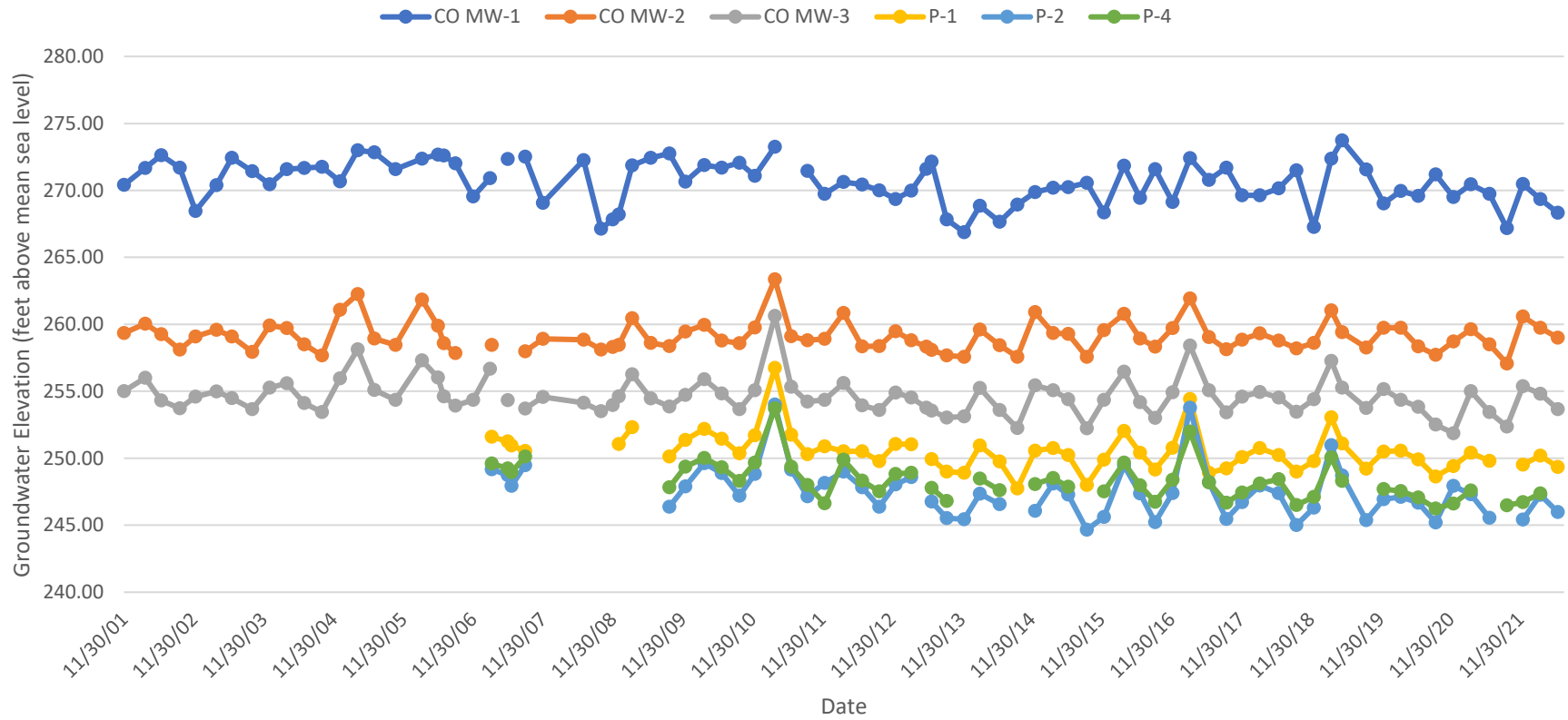


Figure 5 - Total Coliform Organisms in Groundwater
City of Ione - Castle Oaks Golf Course

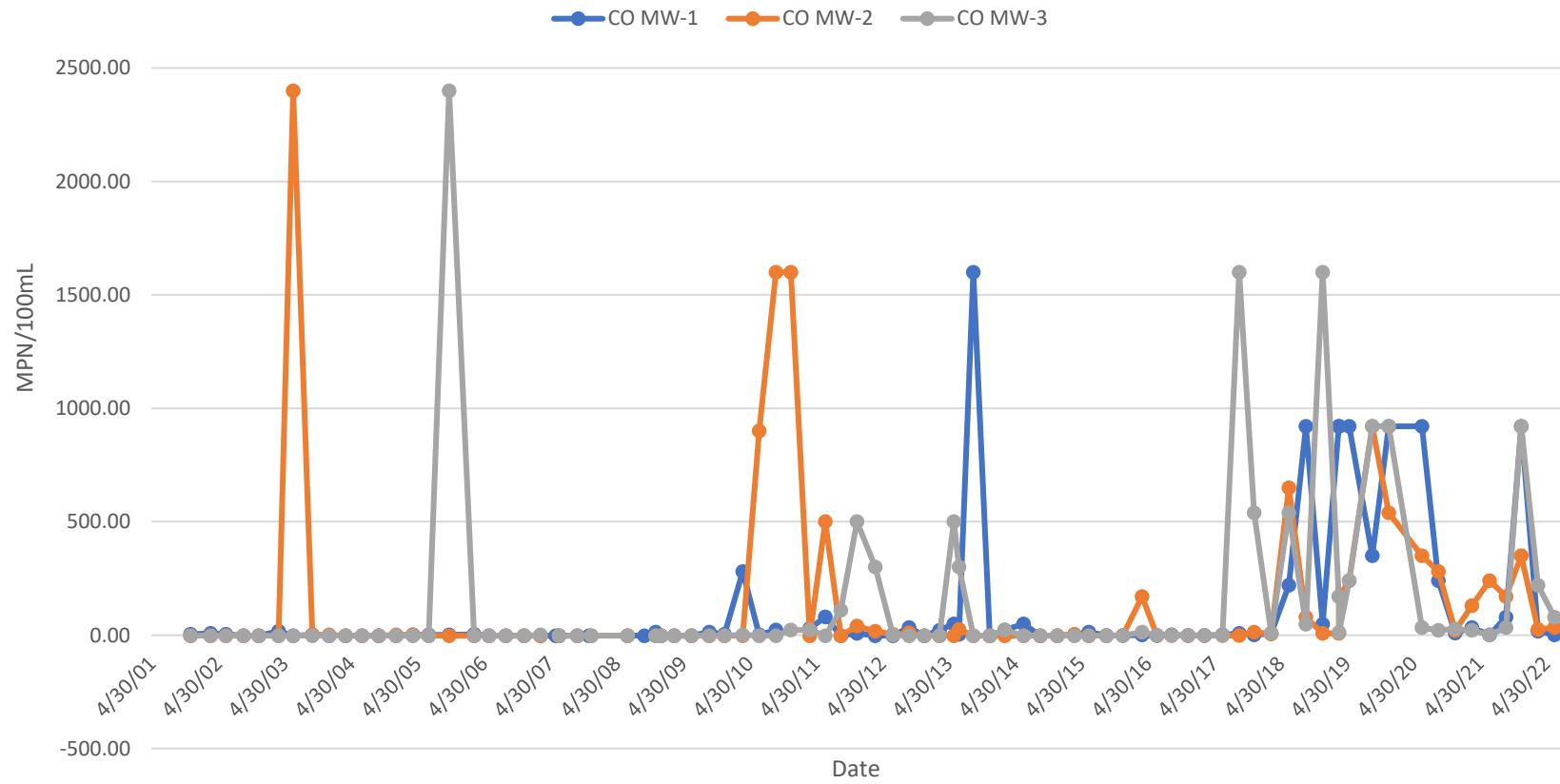


Figure 6 - Nitrate (as Nitrogen) in Groundwater
City of Lone - Castle Oaks Golf Course

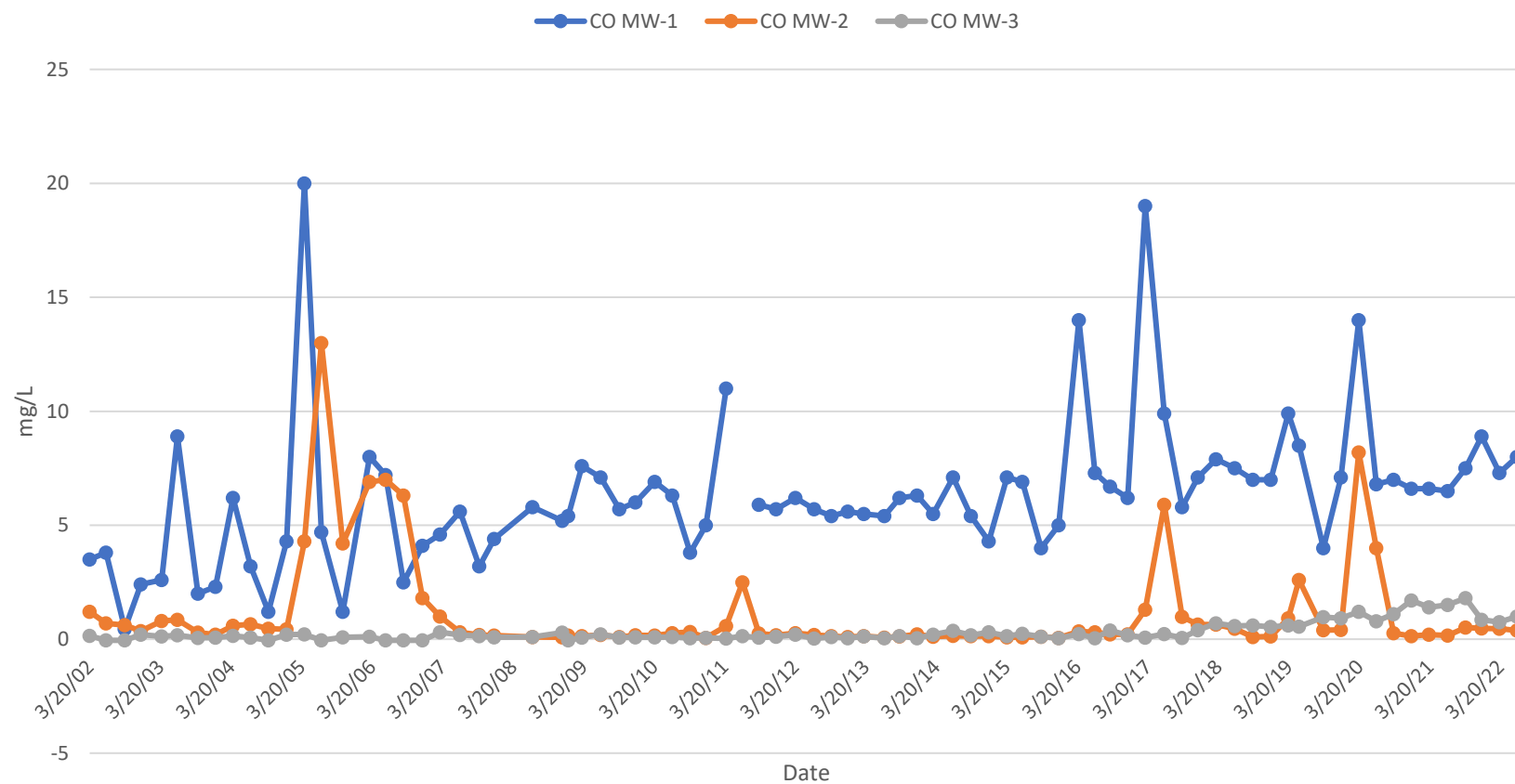


Figure 7 - Ammonia (as Nitrogen) in Groundwater
City of Lone - Castle Oaks Golf Course

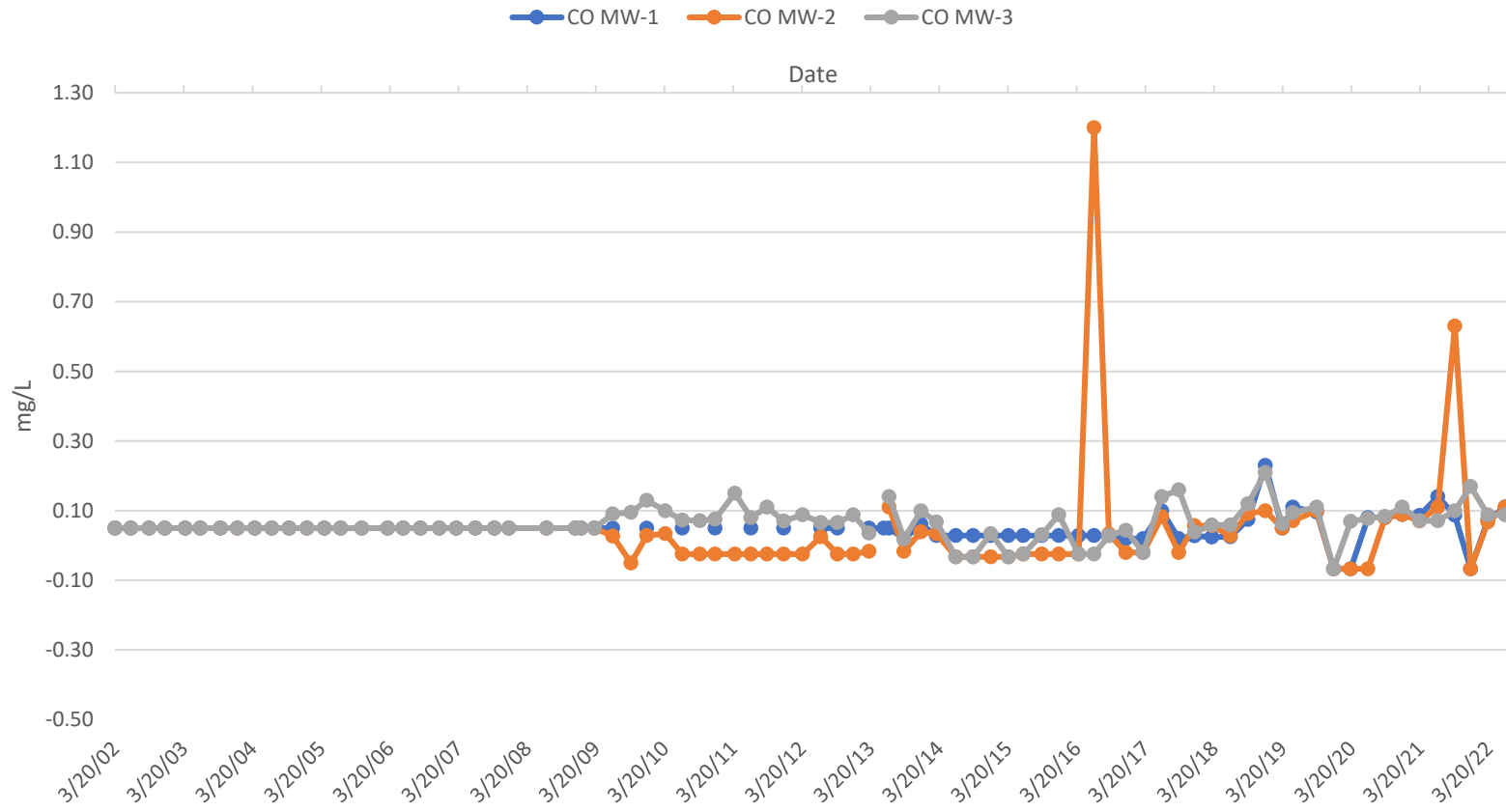


Figure 8 - Total Dissolved Solids in Groundwater
City of Ione - Castle Oaks Golf Course

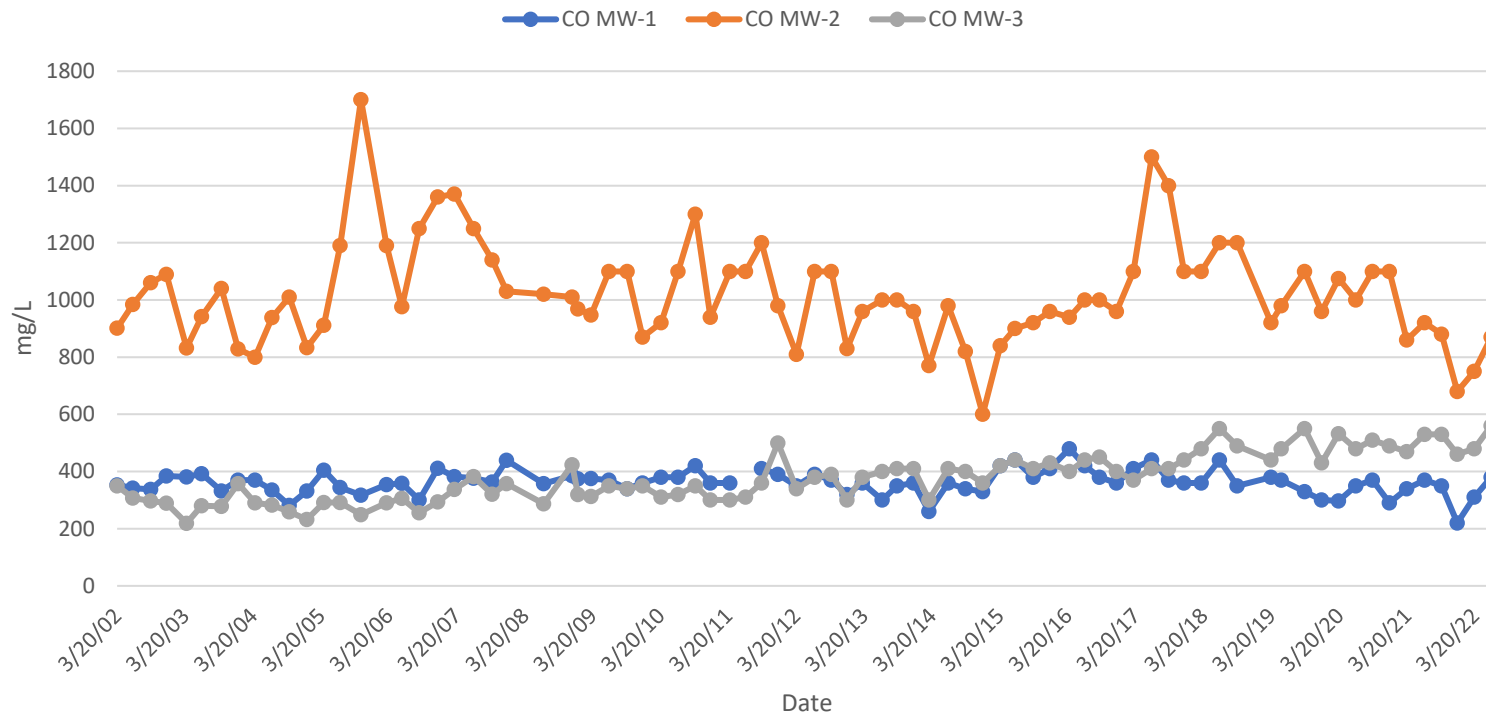


Figure 9 - Total and Dissolved Arsenic in Groundwater
City of Lone - Castle Oaks Golf Course

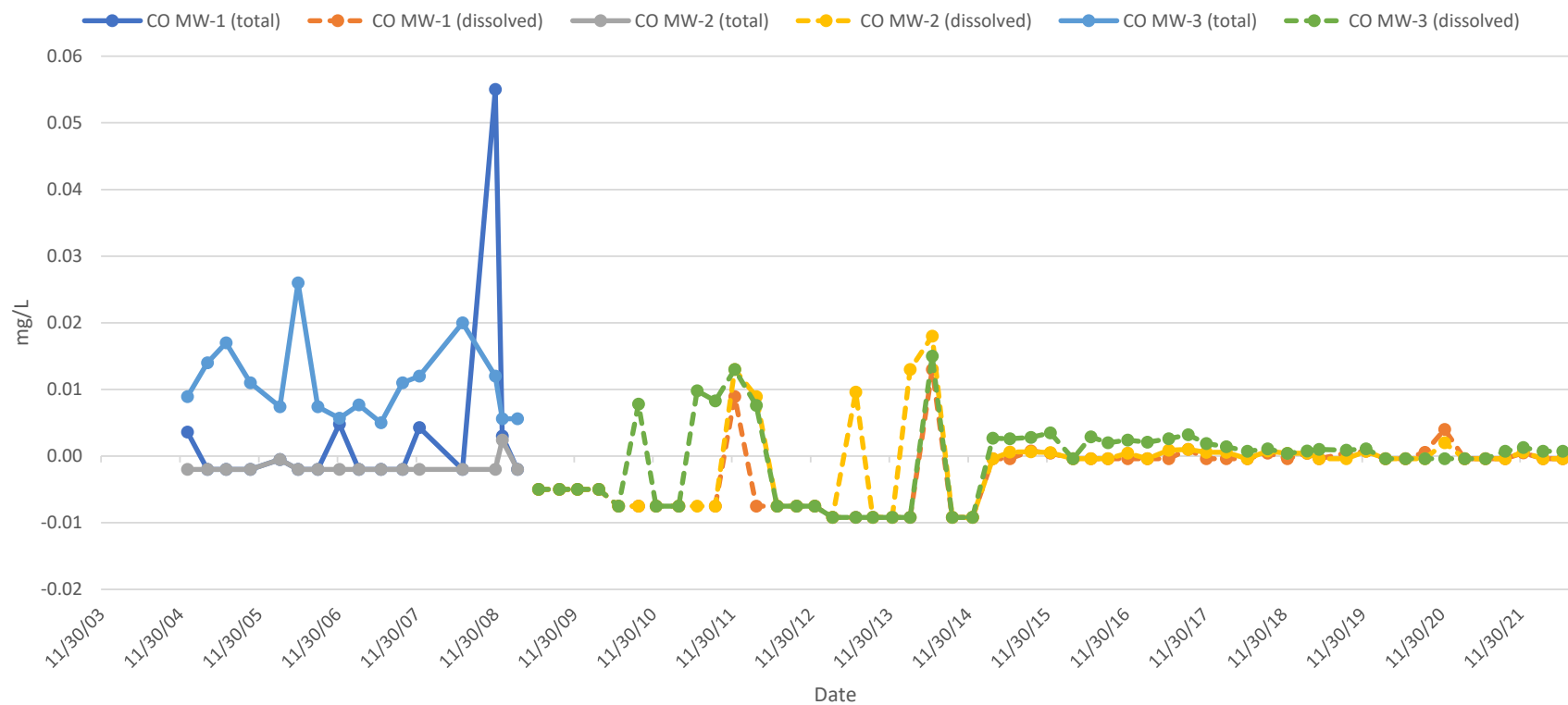


Figure 10 - Total and Dissolved Iron in Groundwater
City of Lone - Castle Oaks Golf Course

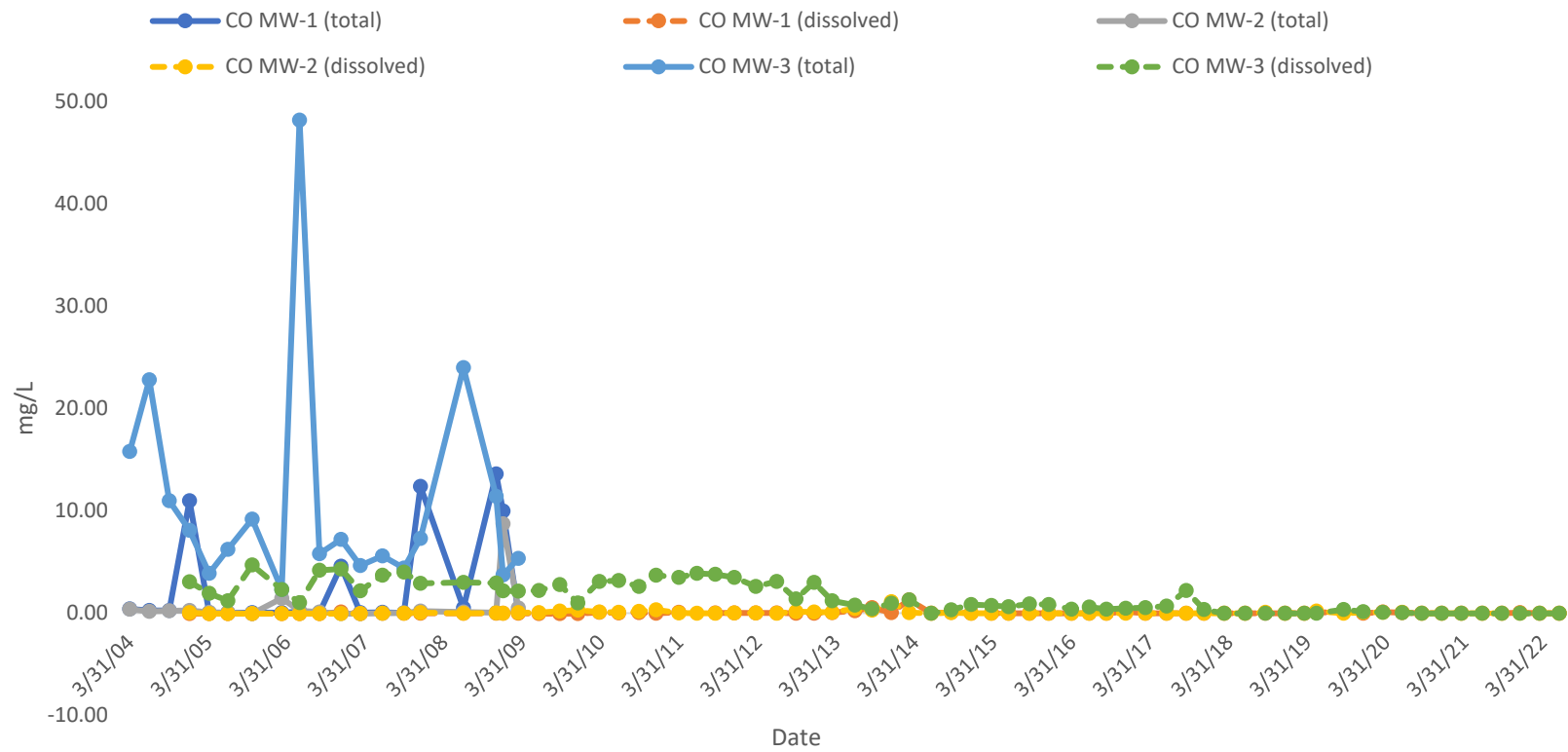


Figure 11
Total and Dissolved Manganese in Groundwater
City of Lone - Castle Oaks Golf Course

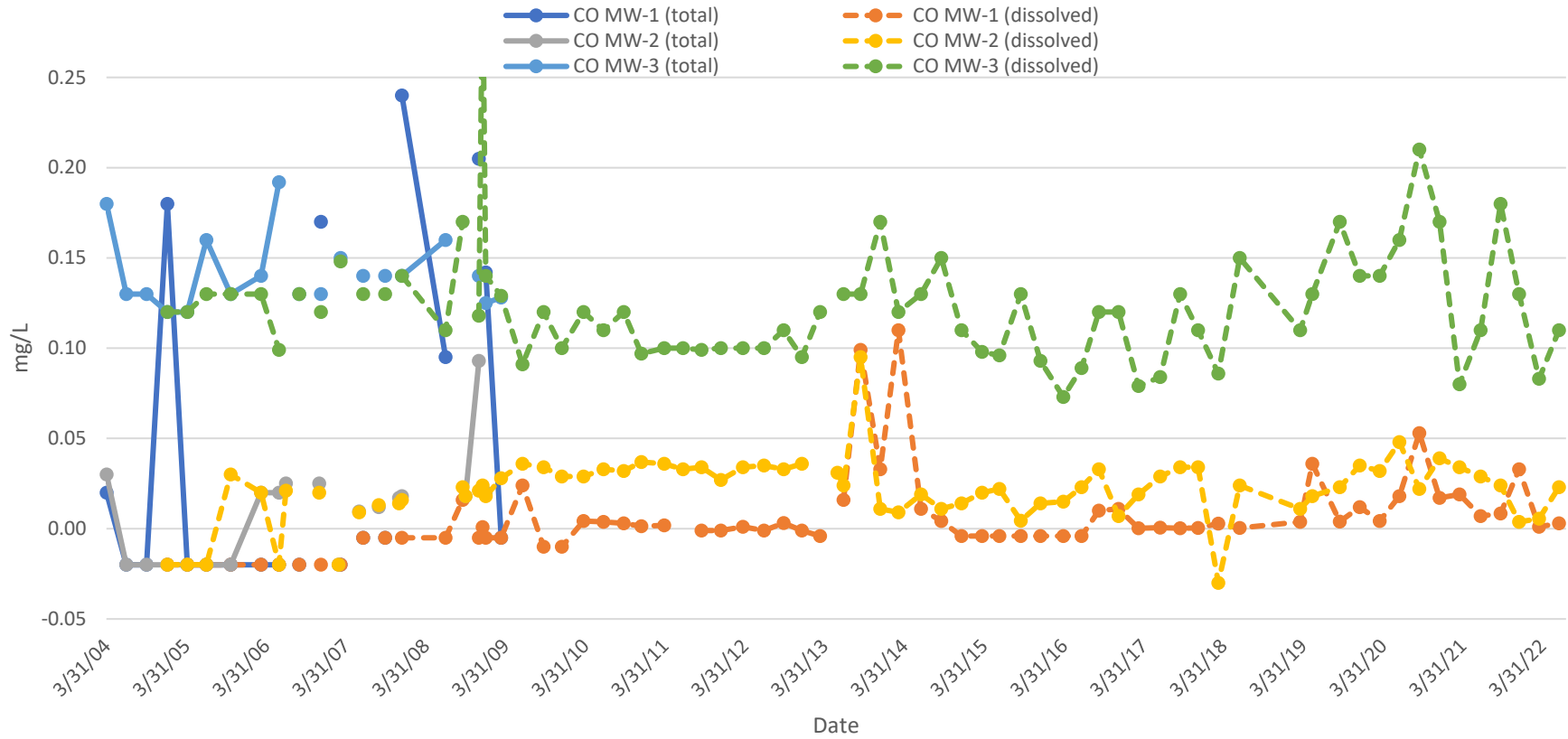
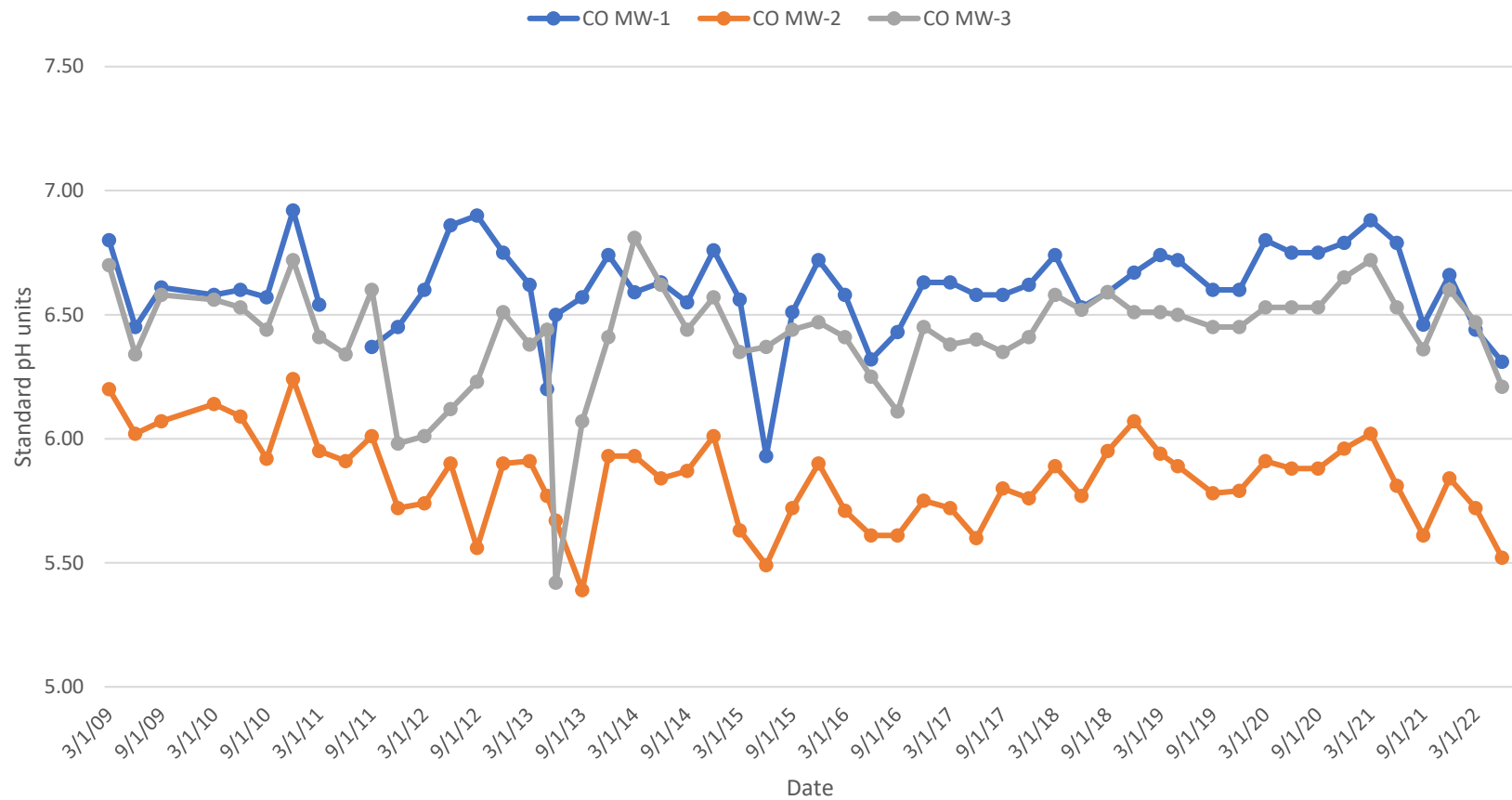


Figure 12 - pH in Groundwater
City of Ione - Castle Oaks Golf Course



TABLES

Historic Groundwater Data

Table 1
Historical Groundwater Quality Data
Castle Oaks Golf Course
City of Ione

Sample ID	MP Elevation	Date											Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Total Arsenic	Dissolved Arsenic	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Ammonia	TOC
			Depth to Water	Ground-Water Elevation	Survey Mark Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/Reduction Potential	Field TDS														
			Probe	Calculated	Surveyed	Measured	Measured	Measured	Measured	Measured																
Analysis Method:			ft	ft. msl	ft. msl	gal	deg C	std units	umh/cm	mg/L	Mv	mg/L	MPN/100m	MPN/100m	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umh/cm	mg/L	Mv	mg/L	MPN/100m	MPN/100m	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
MCL (Secondary MCL where shaded)								6.5-8.5	900				2.2	2.2	10	500	250		0.010	0.010	0.3	0.3	0.05	0.05	1.5	
MW1	280.75	11/30/01		270.42	280.75								4													
MW1		3/20/02		271.67	280.75								8		3.5	353								-0.5		
MW1		6/12/02		272.63	280.75								4		3.8	342								-0.5		
MW1		9/17/02		271.69	280.75								-2		0.45	337								-0.5		
MW1		12/9/02		268.46	280.75								-2		2.4	384								-0.5		
MW1		3/28/03		270.38	280.75								17		2.6	381								-0.5		
MW1		6/17/03		272.43	280.75								-2		8.9	392								-1		
MW1		10/1/03		271.43	280.75								2	-2	2	332								-0.5		
MW1		12/31/03		270.45	280.75								-2	-2	2.3	370								-0.5		
MW1		3/31/04		271.59	280.75								-2	-2	6.2	370				0.41		0.02		-0.5		
MW1		6/30/04		271.66	280.75								-2	-2	3.2	335				0.25		-0.020		-0.5		
MW1		9/30/04		271.76	280.75								-2	-2	1.2	282				0.26		-0.020		-0.5		
MW1		1/3/05		270.68	280.75								-2	-2	4.3	332		0.0036		11.0	-0.050	0.18	-0.020	-0.5	<0.20	
MW1		4/5/05		272.99	280.75								2	-2	20	405			-0.050	-0.050	-0.020	-0.020	-0.5			
MW1		7/1/05		272.84	280.75								2	-2	4.7	344		-0.002	-0.050	-0.050	-0.020	-0.020	-0.5			
MW1		10/21/05		271.59	280.75								2	-2	1.2	317		-0.002	-0.050	-0.050	-0.020	-0.020	-0.5		1.3	
MW1		3/8/06	8.39	272.36	280.75		272.36						4	-2	8	354		-0.0005	-0.050	-0.050	-0.020	-0.020	-0.5		0.84	
MW1		5/30/06	8.09	272.66	280.75								-2	-2	7.2	359		-0.002	0.139	-0.050	-0.020	-0.020	-0.5		1.4	
MW1		6/30/06	8.15	272.60	280.75																					
MW1		8/30/06	8.74	272.01	280.75								-2	-2	2.5	300	47	34	-0.002	-0.050	-0.050	-0.020	-0.020	-0.5	0.68	
MW1		11/30/06	11.21	269.54	280.75																					
MW1		12/8/06			280.75								-2	-2	4.1	411	51	27	0.0048		4.6	0.110	0.17	-0.020	-0.5	0.39
MW1		2/27/07	9.83	270.92	280.75																					
MW1		3/8/07			280.75								-2	-2	4.6	382	51	26.9	-0.002		-0.050	-0.050	-0.020	-0.020	-0.5	0.91
MW1		5/31/07	8.40	272.35	280.75																					
MW1		6/19/07			280.75								-2	-2	5.6	377	46	37	-0.002		0.085	-0.020	-0.005	-0.005	-0.5	0.72
MW1		8/30/07	8.23	272.52	280.75																					
MW1		9/27/07			280.75								-2	-2	3.2	363	72	36	-0.002		-0.020	-0.020	-0.005	-0.005	-0.5	0.98
MW1		11/30/07	11.69	269.06	280.75																					
MW1		12/13/07			280.75								-2	-2	4.4	439			0.0043		12.4	-0.020	0.24	-0.005	-0.5	0.61
MW1		6/30/08	8.50	272.25	280.75								-2	-2	5.8	357	78	34	-0.002		0.490	-0.020	0.095	-0.005	-0.5	0.82
MW1		9/30/08	13.61	267.14	280.75																					
MW1		11/30/08	12.92	267.83	280.75								-2	-2	5.2	385	58	27	0.055		13.60	-0.020	0.205	-0.005	-0.5	0.62
MW1		12/31/08	12.56	268.19	280.75								-2	-2	5.4	374	60	27	0.003		9.98	-0.020	0.142	-0.005	-0.5	0.29
MW1		3/12/09	8.89	271.86	280.75	7	18.0	6.80	565				14	-2	7.6	376	60	27	-0.002		0.173	-0.020	-0.005	-0.005	-0.5	0.50
MW1		6/17/09	8.33	272.42	280.75	95	20.9	6.45	640	5.06	-15.9	416	-2	-2	7.1	370	72	32		-0.050		-0.050	0.024	0.04	0.63	
MW1		9/22/09	7.99	272.76	280.75	3	24.21	6.61	576	4.84	96.8	373	-2	-2	5.7	340				-0.050		-0.050	-0.010	0.025		
MW1		12/15/09	10.11	270.64	280.75	5	20.52	7.51	582	3.56	39.0	378	-2	-2	6	360				-0.050		-0.050	-0.010	-0.05		
MW1		3/24/10	8.86	271.89	280.75	5	17.65	6.58	643	4.92	71.3	418	14	-2	6.9	380				-0.050		0.076	0.0042	0.049		
MW1		6/23/10	9.06	271.69	280.75	5	18.55	6.60	680	6.60	101.4	442	4	-2	6.3	380				-0.0075		0.022	0.0038	-0.025		
MW1		9/24/10	8.69	272.06	280.75	5	23.30	6.57	587	4.05	280.5	382	280	-2	3.8	420				-0.0075		0.047	0.0030	-0.025		
MW1		12/14/10	9.66	271.09	280.75	5	19.61	6.92	598	4.49	104.1	389	2.0		5.0	360				-0.0075		-0.005	0.0013	-0.025		
MW1		3/29/11	7.49	273.26	280.75	5	17.10	6.54	614	3.95	-136.8	399	23		11	360				-0.0075		0.084	0.0019	0.059		
MW1		6/22/11	Bent closed, unable to sample																							
MW1		9/15/11	9.29	271.46	280.75	5	20.81	6.37	586	5.02	79.4	381	30		5.9	410				-0.0075		0.0054	-0.0010	-0.025		
MW1		12/13/11	11.01	269.74	280.75	4	19.49	6.45	591	3.66	55.0	384	80	-2	5.7	390				0.0089		0.0057	-0.0010	-0.025		
MW1		3/22/12	10.13	270.62	280.75	4	17.09	6.60	590	4.15	63.7	384	-2		6.2	350				-0.0075		0.0220	0.0011	-0.025		
MW1		6/27/12	9.84	270.44	280.28	5	19.46	6.86	582	6.34	88.2	379	8.0	-2	5.7	390				-0.0075		0.0067	-0.0010	-0.025		
MW1		9/25/12	10.28	270.00	280.28	4	23.87	6.90	606	4.05	49.9	394	-2		5.4	370				-0.0075		-0.0050	0.0031	-0.025		
MW1		12/18/12	10.92	269.36	280.28	10+	20.49	6.75	578	3.20	144.4	376	-2		5.6	320				-0.0075		-0.005	-0.0010	-0.025		
MW1		3/11/13	10.30	269.98	280.28	6	18.46	6.62	590	4.29	126.0	383	33		5.5	360				-0.0092		0.039	-0.0040	-0.017		
MW1		6/26/13	8.14	272.14	280.28	5	21.39	6.50	500	4.16	160.4	325	22		5.4	300				-0.0092		0.220	0.016	0.025		
MW1		9/13/13	12.44	267.84	280.28	3	21.18	6.57	609	3.15	203.4	396	50		6.2	350				-0.0092		0.520	0.099	0.019		
MW1		12/12/13	13.40	266.88	280.28	2	21.60	6.74	610	2.00	90.2	396	4.0		6.3	360				-0.0092		0.036	0.033	0.061		
MW1		3/5/14	11.44	268.84	280.28	4	18.90	6.59	504	3.02	179.4	328	> 1600		5.5	260				-0.0092		1.300	0.110	0.029		
MW1		6/16/14	12.62	267.66	280.28	4	19.59	6.63	624	2.10	96.4	406	-2		7.1	360					0.0130	-0.030	0.011	-0.033		
MW1		9/17/14	11.35	268.93	280.28	4	21.66	6.55	571	1.32	132.6															

Table 1
Historical Groundwater Quality Data
Castle Oaks Golf Course
City of Ione

Sample ID	MP Elevation	Date											Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Total Arsenic	Dissolved Arsenic	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Ammonia	TOC
			Depth to Water	Ground-Water Elevation	Survey Mark Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/Reduction Potential	Field TDS														
			Probe	Calculated	Surveyed	Measured	Measured	Measured	Measured	Measured	Measured															
			Units:	ft	ft. msl	ft. msl	gal	deg C	std units	umh/s/cm	mg/L	Mv														
Analysis Method:			SM 9221 B	SM 9221 E	EPA 300.0	SM2540C	EPA 300.0	EPA 200.8	EPA 206.2	EPA 206.3	EPA 200.7	EPA 8260	EPA 200.7	EPA 8260	SM4500	EPA 8260										
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umh/s/cm	mg/L	Mv	mg/L	MPN/100m	MPN/100m	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
MCL (Secondary MCL where shaded)								6.5-8.5	900				2.2	2.2	10	500	250		0.010	0.010	0.3	0.3	0.05	0.05	1.5	
MW1	continued 280.28	6/20/16	10.84	269.44	280.28	4	18.89	6.32	595	2.72	151.2	387	-1.8		7.3	420			-0.00038		-0.030		-0.0040	-0.025		
MW1		9/7/16	8.69	271.59	280.28	5	23.08	6.43	604	5.69	276.9	393	2.0		6.7	380			-0.00038		-0.030		0.010	-0.025		
MW1		12/7/16	11.15	269.13	280.28	4	21.4	6.63	566	1.65	85.2	371	-1.8		6.2	360			-0.00038		0.140		0.011	-0.020		
MW1		3/8/17	7.87	272.41	280.28	5	17.5	6.63	615	4.44	221.7	402	2.0		19	410			-0.00038		-0.030		0.00025	-0.020		
MW1		6/15/17	9.49	270.79	280.28	5	18.0	6.58	595	3.49	222.2	390	-1.8		9.9	440			-0.00038		-0.030		0.00060	0.098		
MW1		9/14/17	8.59	271.69	280.28	5	23.4	6.58	547	4.33	255.4	358	-1.8		5.8	370			0.00099	-0.030		0.00023	-0.020			
MW1		12/6/17	10.64	269.64	280.28	4	20.9	6.62	564	4.04	155.7	364	2.0		7.1	360			-0.00038		-0.030		0.00042	0.028		
MW1		3/9/18	10.64	269.64	280.28	4.0	18.7	6.74	674	3.7	158	336	8		7.9	360			0.00040	-0.030			0.0028	0.024		
MW1		6/15/18	10.13	270.15	280.28	3.5	17.1	6.53	675	3.6	156	340	220		7.5	440			-0.00038		-0.030		0.00048	0.025		
MW1		9/17/18	8.79	271.49	280.28	4.5	20.1	6.59	670	4.1	140	330	920		7.0	350			0.00043	-0.030			0.016	0.075		
MW1		12/17/18	13.02	267.26	280.28	3.0	19.9	6.67	640	2.6	170	320	49		7.0	390			-0.00038		-0.030		0.00089	0.23		
MW1		3/18/19	7.91	272.37	280.28	5.0	17.3	6.74	520	6.8	162	372	920		9.9	380			0.00039	-0.030			0.0037	-0.050		
MW1		5/13/19	6.54	273.74	280.28	4.0	16.8	6.72	576	5.6	157	411	920		8.5	370			-0.00038		0.036		0.0021	0.11		
MW1		9/16/19	8.72	271.56	280.28	4.5	22.9	6.60	540	6.8	69	382	350		4.0	330			0.00046		0.14		0.0040	0.096		
MW1		12/16/19	11.25	269.03	280.28	3.0	19.7	6.68	489	2.29	204	347	920		7.1	300			0.00074	-0.030			0.0120	-0.067		
MW1		3/16/19	10.33	269.95	280.28	3.5	16.9	6.80	412	7.12	181	297	920		14	270			-0.00038		0.11		0.0043	0.072		
MW1		6/16/20	10.69	269.59	280.28	3.5	18.5	6.75	555	3.38	208	388	920		6.8	350			-0.00038		0.048		0.018	0.080		
MW1		9/14/20	9.09	271.19	280.28	4.0	20.9	6.75	535	3.14	199	381	240		7.0	370			0.00058	-0.030			0.053	0.081		
MW1		12/15/20	10.77	269.51	280.28	3.5	15.9	6.79	564	3.35	221	400	9.3		6.6	290			0.00040	-0.030			0.017	0.089		
MW1		3/17/21	9.83	270.45	280.28	4.0	17.3	6.88	510	3.81	205	363	34		6.6	340			-0.00038		-0.15		0.019	0.086		
MW1		6/22/21	10.55	269.73	280.28	3.5	19.0	6.79	515	4.13	128	363	< 1.8		6.5	370			0.00003	-0.030			0.007	0.087		
MW1		9/21/21	13.11	267.17	280.28	2.5	19.2	6.46	545	3.06	206	387	79		7.5	350			0.00073	-0.030			0.0085	0.087		
MW1		12/14/21	9.81	270.47	280.28	4.0	17.9	6.66	214	7.17	238	152	920		8.9	220			0.00047	0.049			0.033	-0.067		
MW1		3/16/22	10.92	269.36	280.28	3.5	17.6	6.44	377	4.01	177	273	17		7.3	310			-0.00038	-0.030			0.0010	0.074		
MW1		6/15/22	11.94	268.34	280.28	3.0	19.6	6.31	463	2.36	200	328	<1.8		8.0	380			-0.00038	-0.030			0.0029	0.11		
MW2	272.01	11/30/01		259.34	272.01								-2													
MW2		3/20/02		260.05	272.01								-2		1.2	901									-0.5	
MW2		6/12/02		259.26	272.01								-2		0.7	984									-0.5	
MW2		9/17/02		258.12	272.01								-2		0.62	1060									-0.5	
MW2		12/9/02		259.08	272.01								-2		0.36	1090									-0.5	
MW2		3/28/03		259.59	272.01								-2		0.8	832									-0.5	
MW2		6/17/03		259.09	272.01								> 2400		0.85	942									-1	
MW2		10/1/03		257.93	272.01								2	-2	0.29	1040									-0.5	
MW2		12/31/03		259.92	272.01								2	-2	0.2	829									-0.5	
MW2		3/31/04		259.72	272.01								-2	-2	0.59	800				0.37		0.03			-0.5	
MW2		6/30/04		258.51	272.01								-2	-2	0.66	938				0.16		-0.020			-0.5	
MW2		9/30/04		257.67	272.01								-2	-2	0.46	1010				0.23		-0.020			-0.5	
MW2		1/3/05		261.09	272.01								2	-2	0.43	833			-0.002	0.25	0.060	-0.020	-0.020	-0.5	1.7	
MW2		4/5/05		262.26	272.01								2	-2	4.3	912			-0.002	0.07	-0.050	-0.020	-0.020	-0.5		
MW2		7/1/05		258.93	272.01								-2	-2	13	1190			-0.002	0.06	-0.050	-0.020	-0.020	-0.5		
MW2		10/21/05		258.46	272.01								-2	-2	4.2	1700			-0.002	-0.050	-0.050	-0.020	0.030	-0.5	4.4	
MW2		3/8/06	10.16	261.85	272.01								-2	-2	6.9	1190			-0.0005	1.44	-0.050	0.02	0.020	-0.5	3.5	
MW2		5/30/06	12.11	259.90	272.01								-2	-2	7	977			-0.002	0.232	-0.050	0.020	-0.020	-0.5	2.3	
MW2		8/23/06	13.41	258.60	272.01								-2	-2	6.3	1250	160	87	-0.002	0.1	-0.050	0.025	0.021	-0.5	4.0	
MW2		11/30/06	14.16	257.85	272.01								-2	-2												
MW2		12/8/06			272.01								-2	-2	1.8	1360	175	82	-0.002		-0.050	-0.050	0.025	0.020	-0.5	2.7
MW2		2/27/07	11.45	260.56	272.01								-2	-2												
MW2		3/8/07			272.01								-2	-2	1	1370	177	81	-0.002		-0.050	-0.050	-0.020	-0.020	-0.5	2.9
MW2		5/31/07	13.54	258.47	272.01								-2	-2												
MW2		6/19/07			272.01								-2	-2	0.31	1250	154	91	-0.002		-0.020	-0.020	0.0095	0.009	-0.5	2.8
MW2		8/30/07	14.02	257.99	272.01								-2	-2												
MW2		9/27/07			272.01								-2	-2	0.19	1140	155	100	-0.002		0.025	-0.020	0.012	0.013	-0.5	2.6
MW2		11/30/07	13.09	258.92	272.01								-2	-2												
MW2		12/13/07			272.01								-2	-2	0.16	1030			-0.002		0.2	0.052	0.017	0.014	-0.5	2.0
MW2		6/30/08	13.17	258.84	272.01								-2	-2	0.1	1020	135	88</								

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Castle Oaks Golf Course
City of Ione

Sample ID	MP Elevation	Date	Depth to Water	Ground-Water Elevation	Survey Mark Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/Reduction Potential	Field TDS	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Total Arsenic	Dissolved Arsenic	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Ammonia	TOC
Analysis Method:			Probe	Calculated	Surveyed	Measured	Measured	Measured	Measured	Measured	Measured		SM 9221 B	SM 9221 E	EPA 300.0	SM2540C	EPA 300.0	EPA 200.8	EPA 206.2	EPA 206.1	EPA 200.7	EPA 8260	EPA 200.7	EPA 8260	SM4500	EPA 8260
Units:			ft	ft, msl	ft, msl	gal	deg C	std units	umh/cm	mg/L	Mv	mg/L	MPN/100m	MPN/100m	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MCL (Secondary MCL where shaded)								6.5-8.5	900				2.2	2.2	10	500	250		0.010	0.010	0.3	0.3	0.05	0.05	1.5	
MW2	continued 272.01	6/23/11	12.91	259.10	272.01	5	15.87	5.91	1,698	3.14	-49.4	1104	500		2.5	1,100				-0.0075		-0.0050		0.036	-0.025	
MW2		9/15/11	13.20	258.81	272.01	5	18.08	6.01	1,684	1.36	-113.1	1097	-2		0.25	1,200				-0.0075		-0.0050		0.033	-0.025	
MW2		12/13/11	13.09	258.92	272.01	5	18.21	5.72	1,349	1.80	3.9	877	40	-2	0.18	980				0.013		0.0170		0.034	-0.025	
MW2		3/22/12	11.17	260.84	272.01	6	16.00	5.74	1,215	2.92	84.8	790	17		0.27	810				0.0089		0.0220		0.027	-0.025	
MW2		6/27/12	13.65	258.36	272.01	5	16.27	5.90	1,459	5.00	66.2	948	4.0	-2	0.19	1,100				-0.0075		-0.0050		0.034	0.025	
MW2		9/25/12	13.64	258.37	272.01	5	18.11	5.56	1,482	1.96	69.5	958	11		0.13	1,100				-0.0075		0.130		0.035	-0.025	
MW2		12/18/12	12.53	259.48	272.01	6	18.01	5.90	1,305	1.46	37.9	848	-2		0.094	830				-0.0075		0.120		0.033	-0.025	
MW2		3/11/13	13.20	258.81	272.01	6	16.32	5.91	1,416	2.93	147.7	921	-2		0.13	960				-0.0092		0.076		0.036	-0.017	
MW2		5/29/13	13.67	258.34	272.01	44	16.20	5.77	1,432	5.12	780.3	931	-2							Monitor Well Disinfection Event						
MW2		6/26/13	13.91	258.10	272.01	5	17.48	5.67	1,312	2.86	197.4	851	26		0.066	1,000				0.0096		0.430		0.031	0.11	
MW2		9/13/13	14.33	257.68	272.01	5	17.38	5.39	1,387	4.11	170.3	901	-2		0.12	1,000				-0.0092		0.290		0.024	-0.017	
MW2		12/12/13	14.44	257.57	272.01	5	18.17	5.93	1,219	2.17	58.8	793	-2		0.21	960				-0.0092		1.100		0.095	0.039	
MW2		3/5/14	12.40	259.61	272.01	5	16.39	5.93	1,226	3.31	173.1	797	-2		0.11	770				0.013		0.044		0.011	0.034	
MW2		6/16/14	13.57	258.44	272.01	7	16.87	5.84	1,356	1.58	47.8	882	-2		0.15	980				0.018		-0.030		0.0091	-0.033	
MW2		9/17/14	14.45	257.56	272.01	6	18.22	5.87	1,246	0.61	174.1	810	-2		0.14	820				-0.0092		0.059		0.019	-0.033	
MW2		12/19/14	11.10	260.91	272.01	6	18.34	6.01	953	1.01	186.6	620	-2		0.14	600				-0.0092		-0.030		0.011	-0.033	
MW2		3/23/15	12.67	259.34	272.01	5+	16.56	5.63	1,206	0.36	36.7	784	4.0		0.084	840				-0.00038		-0.030		0.014	-0.033	
MW2		6/10/15	12.72	259.29	272.01	5	16.69	5.49	1,210	0.29	101.0	786	-2		0.085	900				0.00059		-0.030		0.020	-0.025	
MW2		9/16/15	14.45	257.56	272.01	5	18.67	5.72	1,382	1.14	87.6	898	-2		0.11	920				0.00065		-0.030		0.022	-0.025	
MW2		12/15/15	12.44	259.57	272.01	6	18.47	5.90	1,331	2.04	45.2	865	-2		0.060	960				0.00052		-0.030		0.0044	-0.025	
MW2		3/29/16	11.23	260.78	272.01	6	16.27	5.71	1,461	0.36	126.7	950	170		0.34	940				-0.00038		-0.030		0.014	-0.025	
MW2		6/20/16	13.08	258.93	272.01	5	16.53	5.61	1,502	1.02	174.1	976	-1.8		0.30	1,000				-0.00038		-0.030		0.015	1.2	
MW2		9/7/16	13.68	258.33	272.01	5	18.17	5.61	1,532	0.42	271.0	996	-1.8		0.21	1,000				-0.00038		-0.030		0.023	0.033	
MW2		12/7/16	12.30	259.71	272.01	5	18.3	5.75	1,354	0.42	2.5	878	-1.8		0.21	960				0.00044		-0.030		0.033	-0.020	
MW2		3/8/17	10.08	261.93	272.01	7	15.9	5.72	1,611	1.67	200	1046	-1.8		1.3	1,100				-0.00038		-0.030		0.0070	-0.020	
MW2		6/15/17	12.97	259.04	272.01	6	16.2	5.60	2,016	0.60	180.2	1305	-1.8		5.9	1,500				0.00087		-0.030		0.019	0.083	
MW2		9/14/17	13.87	258.14	272.01	5	18.4	5.80	1,874	1.22	174.4	1216	-1.8		0.98	1,400				0.0010		-0.030		0.029	-0.020	
MW2		12/6/17	13.17	258.84	272.01	5	18.7	5.76	1,679	0.96	143.7	1092	13		0.65	1,100				0.00057		-0.030		0.034	0.057	
MW2		3/9/18	12.68	259.33	272.01	7	16.7	5.89	1,881	1.9	60	940	5		0.65	1,100				0.00057		-0.030		0.034	0.057	
MW2		6/15/18	13.23	258.78	272.01	6	16.2	5.77	1,854	2.3	213	930	650		0.46	1,200				-0.00038		-0.030		0.024	0.028	
MW2		9/17/18	13.81	258.20	272.01	5.5	18.0	5.95	1,942	4.7	228	970	79		0.097	1,200				0.00078		0.084		0.023	0.092	
MW2		12/17/18	13.39	258.62	272.01	6.0	17.5	6.07	1,500	3.2	229	750	7.8		0.12	920				0.00038		-0.030		0.024	0.10	
MW2		3/18/19	10.97	261.04	272.01	7	16.1	5.94	1,333	5.4	220	945	170		0.92	960				0.00043		-0.030		0.011	-0.050	
MW2		5/13/19	12.60	259.41	272.01	6	16.1	5.89	1,415	4.4	215	990	240		2.60	980				-0.00038		0.20		0.018	0.071	
MW2		9/16/19	13.75	258.26	272.01	5.5	18.6	5.78	1,675	3.6	48	1190	920		0.40	1,100				-0.00038		-0.030		0.023	0.10	
MW2		12/16/19	12.28	259.73	272.01	6.5	17.7	5.79	1,421	1.52	254	1010	540		0.41	960				0.00073		0.068		0.035	-0.067	
MW2		3/16/20	12.27	259.74	272.01	6.5	14.3	5.91	1,519	1.99	252	1075	8.2		0.24	1,100				-0.00038		0.075		0.032	-0.067	
MW2		6/16/20	13.65	258.36	272.01	6.5	16.5	5.88	1,500	1.35	252	1070	350		4.0	1,000				-0.00038		0.074		0.048	-0.067	
MW2		9/14/20	14.28	257.73	272.01	5.5	18.2	5.83	1,569	1.87	247	1110	280		0.26	1,100				-0.00038		-0.030		0.022	0.079	
MW2		12/15/20	13.29	258.72	272.01	6.0	16.9	5.96	1,527	2.79	239	1080	20		0.13	1,100				-0.00038		-0.030		0.022	0.039	
MW2		3/17/21	12.37	259.64	272.01	6.5	15.3	6.02	1,153	2.45	245	818	130		0.20	860				-0.00038		-0.030		0.034	0.070	
MW2		6/22/21	13.50	258.51	272.01	6.0	17.0	5.81	1,181	1.59	188	841	240		0.16	920				0.00057		-0.030		0.029	0.11	
MW2		9/21/21	14.94	257.07	272.01	5.0	18.3	5.61	1,253	2.08	239	891	170		0.51	880				-0.00038		-0.030		0.024	0.63	
MW2		12/14/21	11.43	260.58	272.01	7.0	17.3	5.84	669	4.43	274	472	350		0.47	680				0.00062		-0.030		0.0038	-0.067	
MW2		3/16/22	12.27	259.74	272.01	6.5	15.3	5.72	800	1.87	216	582	26		0.46	750				-0.00038		-0.030		0.0056	0.068	
MW2		6/15/22	13.01	259.00	272.01	6.0	17.0	5.52	1,060	1.85	223	760	33		0.38	870				-0.00038		-0.030		0.023		

Table 1
Historical Groundwater Quality Data
Castle Oaks Golf Course
City of Lone

Sample ID	MP Elevation	Date	Depth to Water	Ground-Water Elevation	Survey Mark Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/Reduction Potential	Field TDS	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Total Arsenic	Dissolved Arsenic	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Ammonia	TOC
Analysis Method:			Probe	Calculated	Surveyed	Measured	Measured	Measured	Measured	Measured	Measured		SM 9221 B	SM 9221 E	EPA 300.0	SM2540C	EPA 800.0	EPA 200.8	EPA 206.2	EPA 206.3	EPA 200.7	EPA 8260	EPA 200.7	EPA 8260	SM4500	EPA 8260
Units:			ft	ft, msl	ft, msl	gal	deg C	std units	umh/cm	mg/L	Mv	mg/L	MPN/100m	MPN/100m	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MCL (Secondary MCL where shaded)								6.5-8.5	900				2.2	2.2	10	500	250		0.010	0.010	0.3	0.3	0.05	0.05	1.5	
MW3	continued 264.86	2/27/07	8.17	256.69	264.86								2	-2	0.3	337	30	30.1	0.0077		4.7	2.17	0.15	0.148	-0.5	3.7
MW3		03/08/07			264.86																					
MW3		5/31/07	10.53	254.33	264.86																					
MW3		6/19/07			264.86								-2	-2	0.19	382	33	39	0.005		5.6	3.70	0.14	0.130	-0.5	2.9
MW3		8/30/07	11.16	253.70	264.86																					
MW3		9/27/07			264.86								-2	-2	0.13	321	35	34	0.011		4.4	4.00	0.14	0.130	-0.5	2.7
MW3		11/30/07	10.29	254.57	264.86																					
MW3		12/13/07			264.86								-2	-2	0.088	358			0.012		7.3	2.90	0.14	0.140	-0.5	2.3
MW3		6/30/08	10.71	254.15	264.86								-2	-2	0.1	287	35	32	0.020		24.00	3.00	0.16	0.110	-0.5	2.0
MW3		9/30/08	11.35	253.51	264.86																					
MW3		11/30/08	10.90	253.96	264.86								-2	-2	0.29	424	36	31	0.012		11.40	2.94	0.14	0.118	-0.5	2.0
MW3		12/31/08	10.23	254.63	264.86								-2	-2	-0.05	320	36	33	0.0056		3.73	2.18	0.125	0.140	-0.5	1.3
MW3		3/12/09	8.60	256.26	264.86	5	17.5	6.70	475				-2	-2	0.072	313	34	29	0.0056		5.340	2.15	0.128	0.129	-0.5	1.50
MW3		6/17/09	10.39	254.47	264.86	40	18.3	6.34	482	2.78	-27.1	312	-2	-2	0.21	350	31	30		-0.050			2.20	0.091	0.091	3.0
MW3		9/22/09	11.00	253.86	264.86	3	18.19	6.58	490	2.88	-2.7	318	-2	-2	0.075	340				-0.050		2.80		0.120	0.095	
MW3		12/15/09	10.13	254.73	264.86	10	18.22	7.36	510	2.07	11.5	332	-2	-2	0.078	350				-0.050		1.00		0.100	0.13	
MW3		3/24/10	8.95	255.91	264.86	11	17.64	6.56	555	3.84	-6.1	363	2	-2	0.086	310				-0.050		3.10		0.120	0.1	
MW3		6/23/10	10.03	254.83	264.86	10	17.79	6.53	543	3.78	63.7	352	-2	-2	0.096	320				-0.0075		3.20		0.110	0.073	
MW3		9/24/10	11.19	253.67	264.86	9	18.08	6.44	494	2.14	-24.1	321	-2	-2	0.038	350				0.0078		2.60		0.120	0.071	
MW3		12/14/10	9.78	255.08	264.86	10	18.03	6.72	484	1.40	-28.8	315	23		0.062	300				-0.0075		3.70		0.097	0.076	
MW3		3/29/11	4.23	260.63	264.86	13	17.47	6.41	505	2.88	-130.9	328	23		0.025	300				-0.0075		3.50		0.100	0.15	
MW3		6/23/11	9.53	255.33	264.86	11	16.63	6.34	523	1.51	-18.7	340	-2		0.13	310				0.0098		3.90		0.100	0.080	
MW3		9/15/11	10.62	254.24	264.86	10	17.39	6.60	515	1.11	-82	335	110		0.075	360				0.0083		3.80		0.099	0.11	
MW3		12/13/11	10.50	254.36	264.86	10	17.71	5.98	539	1.35	-17.6	350	500	-2	0.11	500				0.013		3.50		0.100	0.070	
MW3		3/22/12	9.24	255.62	264.86	11	16.84	6.01	531	1.66	8.7	345	300		0.20	340				0.0076		2.60		0.100	0.088	
MW3		6/27/12	10.91	253.95	264.86	10	16.91	6.12	567	1.83	45.7	369	2.0	-2	0.025	380				-0.0075		3.10		0.100	0.066	
MW3		9/25/12	11.26	253.60	264.86	10	17.60	6.23	587	2.74	109.3	382	-2		0.10	390				-0.0075		1.40		0.110	0.066	
MW3		12/18/12	9.96	254.90	264.86	11	17.80	6.51	542	1.55	14.5	352	-2		0.050	300				-0.0075		3.00		0.095	0.088	
MW3		3/11/13	10.33	254.53	264.86	10	17.04	6.38	566	3.35	140.5	368	-2		0.12	380				-0.0092		1.20		0.12	0.036	
MW3		5/30/13	11.08	253.78	264.86	18	17.04	6.44	615	5.09	274.9	400	500	Monitor Well Disinfection Event												
MW3		6/26/13	11.30	253.56	264.86	10	17.11	5.42	543	2.24	208.2	351	300		0.050	400				-0.0092		0.77		0.13	0.14	
MW3		9/13/13	11.82	253.04	264.86	9	17.60	6.07	600	2.99	90.7	390	-2		0.13	410				-0.0092		0.41		0.13	0.019	
MW3		12/12/13	11.73	253.13	264.86	9	17.55	6.41	544	1.52	74.4	354	-2		0.040	410				-0.0092		0.97		0.17	0.10	
MW3		3/5/14	9.61	255.25	264.86	11	17.29	6.81	591	2.54	68.3	384	23		0.20	300				-0.0092		1.30		0.12	0.068	
MW3		6/16/14	11.26	253.60	264.86	12	17.69	6.62	657	5.47	57.8	427	-2		0.37	410				0.0150		-0.030		0.13	-0.033	
MW3		9/17/14	12.61	252.25	264.86	9	17.87	6.44	596	0.09	2.7	387	-2		0.18	400				-0.0092		0.32		0.15	-0.033	
MW3		12/19/14	9.41	255.45	264.86	11	17.94	6.57	550	0.67	162.2	356	-2		0.30	360				-0.0092		0.84		0.11	0.034	
MW3		3/23/15	9.79	255.07	264.86	8	17.28	6.35	606	0.08	41.5	394	-2		0.14	420				0.0027		0.76		0.098	-0.033	
MW3		6/10/15	10.45	254.41	264.86	10	17.08	6.37	571	0.17	71.3	371	-2		0.24	440				0.0026		0.64		0.096	-0.025	
MW3		9/16/15	12.62	252.24	264.86	9	17.79	6.44	597	1.27	-32.3	386	-2		0.11	410				0.0028		0.90		0.130	0.031	
MW3		12/15/15	10.51	254.35	264.86	13	17.94	6.47	574	1.15	43.8	373	-2		0.044	430				0.0035		0.83		0.093	0.088	
MW3		3/29/16	8.40	256.46	264.86	11	17.11	6.41	566	0.12	63.5	368	14		0.23	400				-0.00038		0.39		0.073	-0.025	
MW3		6/20/16	10.67	254.19	264.86	13	16.90	6.25	599	0.96	28.3	389	-1.8		0.046	440				0.0029		0.59		0.089	-0.025	
MW3		9/7/16	11.84	253.02	264.86	12	17.63	6.11	635	0.34	180.4	413	-1.8		0.38	450				0.0020		0.37		0.120	0.029	
MW3		12/7/16	9.94	254.92	264.86	11	18.0	6.45	591	0.34	-118.3	384	-1.8		0.17	400				0.0024		0.46		0.120	0.044	
MW3		3/7/17	6.45	258.41	264.86	7	16.7	6.38	544	0.16	83.7	354	-1.8		0.064	370				0.0021		0.53		0.079	-0.020	
MW3		6/15/17	9.78	255.08	264.86	20	16.2	6.40	612	2.91	86.1	401	-1.8		0.22	410				0.0026		0.680		0.084	0.14	
MW3		9/14/17	11.44	253.42	264.86	10	17.3	6.35	630	1.44	28.6	410	> 1600		0.051	410				0.0032		2.200		0.130	0.16	
MW3		12/6/17	10.26	254.60	264.86	10	18.0	6.41	631	0.81	79.4	410	540		0.40	440				0.0019		0.340		0.110	0.038	
MW3		3/9/18	9.92	254.94	264.86	9	17.4	6.58	797	1.4	36															

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City of Ione

Sample ID	MP Elevation	Date																								
			Depth to Water	Ground-Water Elevation	Survey Mark Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Total Arsenic	Dissolved Arsenic	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Ammonia	TOC
Analysis Method:			Probe	Calculated	Surveyed	Measured	Measured	Measured	Measured	Measured		SM 9221 B	SM 9221 E	EPA 300.0	SM2540C	EPA 300.0	EPA 200.8	EPA 206.2	EPA 206.3	EPA 200.7	EPA 8260	EPA 200.7	EPA 8260	SM4500	EPA 8260	
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umh/cm	mg/L	Mv	mg/L	MPN/100m	MPN/100m	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
MCL (Secondary MCL where shaded)								6.5-8.5	900			2.2	2.2	10	500	250		0.010	0.010	0.3	0.3	0.05	0.05	1.5		
P1	264.80		13.20	251.60	264.80																					
P1		5/18/07	13.54	251.26	264.80																					
P1		6/8/07	13.84	250.96	264.80																					
P1		7/6/07	14.25	250.55	264.80																					
P1		1/13/09	13.73	251.07	264.80																					
P1		3/11/09	12.47	252.33	264.80																					
P1		9/22/09	14.67	250.13	264.80																					
P1		12/15/09	13.43	251.37	264.80																					
P1		3/24/10	12.61	252.19	264.80																					
P1		6/23/10	13.34	251.46	264.80																					
P1		9/24/10	14.44	250.36	264.80																					
P1		12/13/10	13.09	251.71	264.80																					
P1		3/29/11	8.05	256.75	264.80																					
P1		6/22/11	13.04	251.76	264.80																					
P1		9/13/11	14.50	250.30	264.80																					
P1		12/12/11	13.91	250.89	264.80																					
P1		3/20/12	14.29	250.51	264.80																					
P1		6/25/12	14.29	250.51	264.80																					
P1		9/25/12	15.02	249.78	264.80																					
P1		12/17/12	13.74	251.06	264.80																					
P1	3/11/13	13.75	251.05	264.80																						
P1	6/26/13	14.87	249.93	264.80																						
P1	9/11/13	15.80	249.00	264.80																						
P1	12/10/13	15.88	248.92	264.80																						
P1	3/4/14	13.84	250.96	264.80																						
P1	6/16/14	15.04	249.76	264.80																						
P1	9/17/14	17.05	247.75	264.80																						
P1	12/17/14	14.24	250.56	264.80																						
P1	3/23/15	14.05	250.75	264.80																						
P1	6/10/15	14.56	250.24	264.80																						
P1	9/16/15	16.80	248.00	264.80																						
P1	12/15/15	14.90	249.90	264.80																						
P1	3/29/16	12.76	252.04	264.80																						
P1	6/20/16	14.38	250.42	264.80																						
P1	9/7/16	15.64	249.16	264.80																						
P1	12/7/16	14.03	250.77	264.80																						
P1	3/8/17	10.37	254.43	264.80																						
P1	6/13/17	15.88	248.92	264.80																						
P1	9/12/17	15.56	249.24	264.80																						
P1	12/4/17	14.72	250.08	264.80																						
P1	3/9/18	14.04	250.76	264.80																						
P1	6/14/18	14.57	250.23	264.80																						
P1	9/17/18	15.80	249.00	264.80																						
P1	12/17/18	15.01	249.79	264.80																						
P1	3/18/19	11.74	253.06	264.80																						
P1	5/10/19	13.70	251.10	264.80																						
P1	9/15/19	15.59	249.21	264.80																						
P1	12/15/19	14.30	250.50	264.80																						
P1	3/15/19	14.23	250.57	264.80																						
P1	6/14/20	14.89	249.91	264.80																						
P1	9/14/20	16.16	248.64	264.80																						
P1	12/13/20	15.39	249.41	264.80																						
P1	3/16/21	14.38	250.42	264.80																						
P1	6/20/21	15.00	249.80	264.80																						
P1	9/21/21	DRY	nm	264.80																						
P1	12/14/21	15.27	249.53	264.80																						
P1	3/16/22	14.60	250.20	264.80																						
P1	6/12/22	15.45	249.35	264.80																						

Historical Groundwater Quality Data
Castle Oaks Golf Course
City of Ione

Sample ID	MP Elevation	Date																		Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Total Arsenic	Dissolved Arsenic	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Ammonia	TOC
			Depth to Water	Ground-Water Elevation	Survey Mark Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/Reduction Potential	Field TDS																					
			Probe	Calculated	Surveyed	Measured	Measured	Measured	Measured	Measured																							
Analysis Method:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L	MPN/100m	MPN/100m	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L							
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L	MPN/100m	MPN/100m	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L							
MCL (Secondary MCL where shaded)								6.5-8.5	900			2.2	2.2	10	500	250		0.010	0.010	0.3	0.3	0.05	0.05	1.5									
P2	261.55	4/4/07	12.37	249.18	261.55																												
P2		5/18/07	12.80	248.75	261.55																												
P2		1/13/09	13.62	247.93	261.55																												
P2		3/11/09	12.08	249.47	261.55																												
P2		9/22/09	15.17	246.38	261.55																												
P2		12/15/09	13.66	247.89	261.55																												
P2		3/24/10	11.91	249.64	261.55																												
P2		6/23/10	12.65	248.90	261.55																												
P2		9/24/10	14.35	247.20	261.55																												
P2		12/13/10	12.72	248.83	261.55																												
P2		3/29/11	7.54	254.01	261.55																												
P2		6/22/11	12.39	249.16	261.55																												
P2		9/13/11	14.39	247.16	261.55																												
P2		12/12/11	13.40	248.15	261.55																												
P2		3/20/12	12.54	249.01	261.55																												
P2		6/25/12	13.71	247.84	261.55																												
P2		9/25/12	15.17	246.38	261.55																												
P2		12/17/12	13.51	248.04	261.55																												
P2		3/11/13	12.97	248.58	261.55																												
P2		6/26/13	14.78	246.77	261.55																												
P2		9/11/13	16.03	245.52	261.55																												
P2		12/10/13	16.11	245.44	261.55																												
P2		3/4/14	14.20	247.35	261.																												

Table 1
Historical Groundwater Quality Data
Castle Oaks Golf Course
City of Lone

Sample ID	MP Elevation	Date																								
			Depth to Water	Ground-Water Elevation	Survey Mark Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/Reduction Potential	Field TDS	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Total Arsenic	Dissolved Arsenic	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Ammonia	TOC
Analysis Method:			Probe	Calculated	Surveyed	Measured	Measured	Measured	Measured	Measured		SM 9221 B	SM 9221 E	EPA 300.0	SM2540C	EPA 800.0	EPA 200.8	EPA 206.2	EPA 206.3	EPA 200.7	EPA 8260	EPA 200.7	EPA 8260	SM4500	EPA 8260	
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L	MPN/100m	MPN/100m	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
MCL (Secondary MCL where shaded)								6.5-8.5	900					2.2	2.2	10	500	250		0.010	0.010	0.3	0.3	0.05	0.05	1.5
P4	continued 264.41	6/23/10	15.08	249.33	264.41																					
P4		9/24/10	16.11	248.30	264.41																					
P4		12/13/10	14.74	249.67	264.41																					
P4		3/29/11	10.68	253.73	264.41																					
P4		6/22/11	15.05	249.36	264.41																					
P4		9/13/11	16.40	248.01	264.41																					
P4		12/12/11	17.78	246.63	264.41																					
P4		3/20/12	14.53	249.88	264.41																					
P4		6/25/12	16.08	248.33	264.41																					
P4		9/25/12	16.88	247.53	264.41																					
P4		12/17/12	15.59	248.82	264.41																					
P4		3/11/13	15.50	248.91	264.41																					
P4		6/26/13	16.62	247.79	264.41																					
P4		9/11/13	17.59	246.82	264.41																					
P4		12/10/13	DRY	nm	264.41																					
P4		3/4/14	15.93	248.48	264.41																					
P4		6/16/14	16.79	247.62	264.41																					
P4		9/17/14	DRY	nm	264.41																					
P4		12/17/14	16.34	248.07	264.41																					
P4		3/23/15	15.89	248.52	264.41																					
P4		6/10/15	16.54	247.87	264.41																					
P4		9/16/15	DRY	nm	264.41																					
P4		12/15/15	16.89	247.52	264.41																					
P4		3/29/16	14.74	249.67	264.41																					
P4		6/20/16	16.43	247.98	264.41																					
P4		9/7/16	17.66	246.75	264.41																					
P4		12/7/16	16.02	248.39	264.41																					
P4		3/8/17	12.41	252.00	264.41																					
P4		6/13/17	16.22	248.19	264.41																					
P4		9/12/17	17.72	246.69	264.41																					
P4		12/4/17	16.96	247.45	264.41																					
P4		3/9/18	16.29	248.12	264.41																					
P4		6/14/18	15.97	248.44	264.41																					
P4		9/17/18	17.90	246.51	264.41																					
P4		12/17/18	17.29	247.12	264.41																					
P4		3/18/19	14.34	250.07	264.41																					
P4		5/10/19	16.10	248.31	264.41																					
P4		9/15/19	DRY	nm	264.41																					
P4		12/15/19	16.70	247.71	264.41																					
P4		3/15/19	16.87	247.54	264.41																					
P4		6/14/20	17.33	247.08	264.41																					
P4		9/14/20	DRY	nm	264.41																					
P4		12/13/20	17.80	246.61	264.41																					
P4		3/16/21	16.81	247.60	264.41																					
P4		6/20/21	DRY	nm	264.41																					
P4		9/21/21	17.93	246.48	264.41																					
P4		12/14/21	17.68	246.73	264.41																					
P4		3/16/22	17.03	247.38	264.41																					
P4		6/12/22	DRY	nm	264.41																					

Notes:
Negative (-) values indicate less than the detection limit
P-3 TOC elevation is ground surface.
¹ The Nitrate-N tabulation column includes analyses results for Nitrate-N +Nitrite-N.
4th Quarter 2011 Field pH Qualified due to Instrument

	Green shaded cells indicate questionable or qualified analyses.
	Blue shaded cells indicate estimated value detected above minimum detection level but below practical quantitation limit.
	Yellow shaded cells indicate estimated value detected above 2nd MCLs or Ag-use threshold

APPENDIX A

Field Forms and Calibration Records



**EcoUrban
Associates**

Project Name:	City of Ione - Castle Oaks Golf Course	Well ID:	
Sampling Event:	2nd Quarter 2022	Date(s):	6/12/22 & 6/15/22
Samplers:	C. Strong	Conditions:	

Decontamination Method	Triple Rinse / Dedicated bailer

[illegible]

	Field Notes

Groundwater Monitoring Field Form



Project Name:	City of Ione - Castle Oaks Golf Course	Well ID:	CS MW-1
Sampling Event:	2nd Quarter 2022	Date:	6/15/2022
Samplers:	C. Strong	Conditions:	

Decontamination Method	Triple Rinse / Dedicated bailer / Other
-------------------------------	---

Well Details	Well Casing Diameter ("):	Depth to Water	Total Depth	Water Column	Multiplier	Well Volume	80% Recovery LVI
Calc'd gallons to be purged:	Actual gallons purged:	11.94	17.21	5.27	-	0.859	12.99
Multipliers: 0.75" = 0.0229; 2" = 0.163; 4" = 0.653; 6" = 1.03		Measuring Point: MOC / North Side Casing					

Purge Data		Purge Method:		EC (µS/cm)		TDS (mg/L)		DO (mg/L)		ORP (rel mV)		Turbidity		Comments (odor? floating product?)	
Time	Vol. Purged	DTW	Temp	pH											
7:44	1	-	19.4	6.59	491	339	4.06	197	slight	very light brown					
7:49	2	-	19.1	6.41	470	333	2.83	200	"	"					
7:55	3	12.07	19.6	6.31	463	328	2.36	200							
Total/Average															

Sampling Data	Depth to Water at time of sampling:	Samples kept Preserved on ice?	Y	N
Sample ID:				
Sample Time:		Duplicate Samples Collected	Y	N
Sample Collection Method:	Dedicated Bailer	Rinsate Samples Collected	Y	N
Containers Used:	(1) 100mL Na2SO4 (1) 1L Poly (1) 500mL Poly HNO3 - LAB FILTERED (1) 500mL Poly H2SO4			

Field Notes	

Groundwater Monitoring Field Form



Project Name:	City of Ione - Castle Oaks Golf Course
Sampling Event:	2nd Quarter 2022
Samplers:	C. Strong

Well ID:	Co MW-2
Date:	6/15/2022
Conditions:	

Decontamination Method	Triple Rinse / Dedicated bailer / Other
-------------------------------	---

Well Details	Well Casing Diameter ("):	Total Depth	Water Column	Multiplier	Well Volume	80% Recovery Lvl
Calc'd gallons to be purged:	Actual gallons purged:	13.01	11.84	-	1.93	15.38
Multipliers: 0.75" = 0.0229; 2" = 0.163; 4" = 0.653; 6" = 1.03						
Measuring Point: MOC / North Side Casing						

Purge Data		Purge Method:		TDS (mg/L)		DO (mg/L)		ORP (rel mV)		Turbidity		Comments (odor? floating product?)	
Time	Vol. Purged	DTW	Temp	pH	EC (µS/cm)								
0810	1	-	17.5	5.40	1055	749	1.41	227		None			
0820	3	-	16.9	5.47	1073	763	1.88	224		slight			
0825	6	1310	17.0	5.52	1060	760	1.85	223		"			
Total/Average													

Sampling Data	Depth to Water at time of sampling:	Samples kept Preserved on ice?	Y	N
Sample ID:		Duplicate Samples Collected	Y	N
Sample Time:		Rinsate Samples Collected	Y	N
Sample Collection Method:	Dedicated Bailer			
Containers Used:	(1) 100mL Na2SO4 (1) 1L Poly (1) 500mL Poly HNO3 - LAB FILTERED (1) 500mL Poly H2SO4			

Field Notes	

Groundwater Monitoring Field Form



Project Name:	City of Ione - Castle Oaks Golf Course
Sampling Event:	2nd Quarter 2022
Samplers:	C. Strong

Well ID:	CO E-MW-3
Date:	6/15/2022
Conditions:	

Decontamination Method	Triple Rinse / Dedicated bailer / Other
-------------------------------	---

Well Details	Well Casing Diameter ("): 2	Depth to Water	11.19	Total Depth	28.09	Water Column	16.90	Multiplier	-	Well Volume	2.75	80% Recovery Lvl	14.57
Calc'd gallons to be purged:		Actual gallons purged: 8.5											
Multipliers: 0.75" = 0.0229; 2" = 0.163; 4" = 0.653; 6" = 1.03		Measuring Point: MOC / North Side Casing											

Purge Data		Purge Method:				TDS (mg/L)				DO (mg/L)		ORP (rel mV)		Turbidity		Comments (odor? floating product?)	
Time	Vol. Purged	DTW	Temp	pH	EC (µS/cm)												
0850	1	-	18.8	6.34	676	488	2.18	216	slight								
0857	4	-	18.6	6.21	672	478	1.76	203	mod.								
0903	8.5	12.72	18.3	6.21	668	475	1.92	201	"								
Total/Average																	

Sampling Data	Depth to Water at time of sampling:	Samples kept Preserved on ice?	Y	N
Sample ID:				
Sample Time:				
Sample Collection Method:	Dedicated Bailer	Duplicate Samples Collected	Y	N
Containers Used:	(1) 100mL Na2SO4 (1) 1L Poly (1) 500mL Poly HNO3 - LAB FILTERED (1) 500mL Poly H2SO4	Rinsate Samples Collected	Y	N

Field Notes	

APPENDIX B

LABORATORY ANALYTICAL REPORTS CHAIN OF CUSTODY RECORD



Date of Report: 06/30/2022

Christopher Strong

EcoUrban Associates

P.O. Box 411
Ione, CA 95640

Client Project: [none]
BCL Project: City of Ione Groundwater Monitoring WWTP
BCL Work Order: 2214094
Invoice ID: B452463

Enclosed are the results of analyses for samples received by the laboratory on 6/16/2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Ragen Schallock", written over a horizontal line.

Contact Person: Ragen Schallock
Client Service Rep

A handwritten signature in black ink, appearing to read "Stuart Buttram", written over a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. Pace Analytical assumes no responsibility for report alteration, separation, detachment or third party interpretation.

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Chain of Custody and Cooler Receipt Form for 2214094 Page 2 of 2

PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>1</u>	
Submission #: <u>22-14094</u> <u>DET (22-14094)</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input checked="" type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> <u>W</u> / <u>S</u>
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>0.98</u> Container: <u>PE</u> Thermometer ID: <u>337</u> Temperature: (A) <u>1.7</u> °C / (C) <u>1.6</u> °C		Date/Time <u>6-16-22</u> Analyst Init. <u>SMH</u> 9:26	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES	A-C	A-C	A-C							
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS	D	D	D							
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 505/605.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
3oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: LCI
 A = Actual / C = Corrected

Date/Time: 6/16/22 1830

Rev 23 05/20/22

[2:1A]POadWordPerfectLAB_D025F0805/5/5ANRECrev 23]

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EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 06/30/2022 18:37
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2214094-01	COC Number:	---	Receive Date:	06/16/2022 09:26
	Project Number:	---	Sampling Date:	06/15/2022 07:55
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	CO WM-1	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
2214094-02	COC Number:	---	Receive Date:	06/16/2022 09:26
	Project Number:	---	Sampling Date:	06/15/2022 08:25
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	CO WM-2	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
2214094-03	COC Number:	---	Receive Date:	06/16/2022 09:26
	Project Number:	---	Sampling Date:	06/15/2022 09:03
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	CO WM-3	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	



EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 06/30/2022 18:37
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

BCL Sample ID:	2214094-01	Client Sample Name:	CO WM-1, 6/15/2022 7:55:00AM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Nitrate as N	8.0	mg/L	0.10	0.024	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	380	mg/L	20	10	EPA-160.1	ND	A10	2
Ammonia as N	0.11	mg/L	0.20	0.067	EPA-350.1	ND	J	3

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-300.0	06/16/22 20:40	06/16/22 22:56		JAT	IC1	1	B142168	No Prep
2	EPA-160.1	06/20/22 11:00	06/20/22 11:00		CAD	MANUAL	2	B142301	No Prep
3	EPA-350.1	06/29/22 23:01	06/30/22 10:13		JMH	SC-1	1.070	B143043	No Prep

DCN = Data Continuation Number



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Reported: 06/30/2022 18:37
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Metals Analysis

BCL Sample ID:	2214094-01	Client Sample Name:	CO WM-1, 6/15/2022 7:55:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Dissolved Iron	ND	mg/L	0.050	0.030	EPA-200.7	ND		1	
Dissolved Manganese	0.0029	mg/L	0.0010	0.000040	EPA-200.8	ND		2	

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-200.7	06/17/22 11:21	06/27/22 23:14	JRG	PE-OP4	1	B142605	EPA 200.7 Dissolved
2	EPA-200.8	06/17/22 11:21	06/22/22 01:27	ARD	PE-EL4	1	B142374	EPA 200.8 Dissolved

DCN = Data Continuation Number



EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 06/30/2022 18:37
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

BCL Sample ID:	2214094-02	Client Sample Name:	CO WM-2, 6/15/2022 8:25:00AM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Nitrate as N	0.38	mg/L	0.20	0.048	EPA-300.0	ND	A10	1
Total Dissolved Solids @ 180 C	870	mg/L	50	25	EPA-160.1	ND	A10	2
Ammonia as N	0.11	mg/L	0.20	0.067	EPA-350.1	ND	J	3

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-300.0	06/16/22 20:40	06/16/22 23:17		SAV	IC1	2	B142168	No Prep
2	EPA-160.1	06/20/22 11:00	06/20/22 11:00		CAD	MANUAL	5	B142301	No Prep
3	EPA-350.1	06/29/22 23:01	06/30/22 10:14		JMH	SC-1	1.081	B143043	No Prep

DCN = Data Continuation Number



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Reported: 06/30/2022 18:37
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Metals Analysis

BCL Sample ID: 2214094-02		Client Sample Name: CO WM-2, 6/15/2022 8:25:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Dissolved Iron	ND	mg/L	0.050	0.030	EPA-200.7	ND		1
Dissolved Manganese	0.023	mg/L	0.0010	0.000040	EPA-200.8	ND		2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-200.7	06/17/22 11:23	06/23/22 19:07	JRG	PE-OP4	1	B142603	EPA 200.7 Dissolved
2	EPA-200.8	06/17/22 11:21	06/22/22 01:29	ARD	PE-EL4	1	B142374	EPA 200.8 Dissolved

DCN = Data Continuation Number



EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 06/30/2022 18:37
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

BCL Sample ID:	2214094-03	Client Sample Name:	CO WM-3, 6/15/2022 9:03:00AM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Nitrate as N	1.0	mg/L	0.10	0.024	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	560	mg/L	33	17	EPA-160.1	ND	A10	2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-300.0	06/16/22 20:40	06/16/22 23:38	SAV	IC1	1	B142168	No Prep
2	EPA-160.1	06/20/22 11:00	06/20/22 11:00	CAD	MANUAL	3.333	B142301	No Prep

DCN = Data Continuation Number



EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 06/30/2022 18:37
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Metals Analysis

BCL Sample ID:	2214094-03	Client Sample Name:	CO WM-3, 6/15/2022 9:03:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Dissolved Iron	ND	mg/L	0.050	0.030	EPA-200.7	ND		1	
Dissolved Manganese	0.11	mg/L	0.0010	0.000040	EPA-200.8	ND		2	

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-200.7	06/17/22 11:25	06/23/22 19:18	JRG	PE-OP4	1	B142603	EPA 200.7 Dissolved
2	EPA-200.8	06/17/22 11:21	06/22/22 01:31	ARD	PE-EL4	1	B142374	EPA 200.8 Dissolved

DCN = Data Continuation Number



EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 06/30/2022 18:37
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B142168						
Nitrate as N	B142168-BLK1	ND	mg/L	0.10	0.024	
QC Batch ID: B142301						
Total Dissolved Solids @ 180 C	B142301-BLK1	ND	mg/L	6.7	3.3	
QC Batch ID: B143043						
Ammonia as N	B143043-BLK1	ND	mg/L	0.20	0.067	

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EcoUrban Associates
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Ione, CA 95640

Reported: 06/30/2022 18:37
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B142168										
Nitrate as N	B142168-BS1	LCS	5.3240	5.0000	mg/L	106		90 - 110		
QC Batch ID: B142301										
Total Dissolved Solids @ 180 C	B142301-BS1	LCS	595.00	586.00	mg/L	102		90 - 110		
QC Batch ID: B143043										
Ammonia as N	B143043-BS1	LCS	2.0870	2.0000	mg/L	104		90 - 110		

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Reported: 06/30/2022 18:37
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: B142168		Used client sample: N									
Nitrate as N	DUP	2214091-01	0.65900	0.65000		mg/L	1.4		10		
	MS	2214091-01	0.65900	5.6364	5.0505	mg/L		98.6		80 - 120	
	MSD	2214091-01	0.65900	5.7414	5.0505	mg/L	1.8	101	10	80 - 120	
QC Batch ID: B142301		Used client sample: Y - Description: CO WM-2, 06/15/2022 08:25									
Total Dissolved Solids @ 180 C	DUP	2214094-02	870.00	855.00		mg/L	1.7		10		
QC Batch ID: B143043		Used client sample: N									
Ammonia as N	DUP	2213984-02	0.16093	0.15233		mg/L	5.5		10		J
	MS	2213984-02	0.16093	2.5504	2.3033	mg/L		104		90 - 110	
	MSD	2213984-02	0.16093	2.5246	2.3033	mg/L	1.0	103	10	90 - 110	



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P.O. Box 411
Ione, CA 95640

Reported: 06/30/2022 18:37
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B142374						
Dissolved Manganese	B142374-BLK1	ND	mg/L	0.0010	0.000040	
QC Batch ID: B142603						
Dissolved Iron	B142603-BLK1	ND	mg/L	0.050	0.030	
QC Batch ID: B142605						
Dissolved Iron	B142605-BLK1	ND	mg/L	0.050	0.030	

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Ione, CA 95640

Reported: 06/30/2022 18:37
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	Quals
QC Batch ID: B142374										
Dissolved Manganese	B142374-BS1	LCS	0.10758	0.10000	mg/L	108		85 - 115		
	B142374-BSD1	LCSD	0.10993	0.10000	mg/L	110	2.2	85 - 115		20
QC Batch ID: B142603										
Dissolved Iron	B142603-BS1	LCS	0.97256	1.0000	mg/L	97.3		85 - 115		
QC Batch ID: B142605										
Dissolved Iron	B142605-BS1	LCS	0.97961	1.0000	mg/L	98.0		85 - 115		

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P.O. Box 411
Ione, CA 95640

Reported: 06/30/2022 18:37
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Metals Analysis

Quality Control Report - Precision & Accuracy

										Control Limits		
Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	RPD	Percent Recovery	Lab Quals	
QC Batch ID: B142374		Used client sample: N										
Dissolved Manganese	DUP	2214058-04	0.00083600	0.00085700		mg/L	2.5		20		J	
	MS	2214058-04	0.00083600	0.10650	0.10204	mg/L		104		70 - 130		
	MSD	2214058-04	0.00083600	0.10359	0.10204	mg/L	2.8	101	20	70 - 130		
QC Batch ID: B142603		Used client sample: Y - Description: CO WM-2, 06/15/2022 08:25										
Dissolved Iron	DUP	2214094-02	ND	ND		mg/L			20			
	MS	2214094-02	ND	0.95794	1.0204	mg/L		93.9		85 - 115		
	MSD	2214094-02	ND	0.99927	1.0204	mg/L	4.2	97.9	20	85 - 115		
QC Batch ID: B142605		Used client sample: N										
Dissolved Iron	DUP	2214093-03	ND	ND		mg/L			20			
	MS	2214093-03	ND	0.99776	1.0204	mg/L		97.8		85 - 115		
	MSD	2214093-03	ND	0.96520	1.0204	mg/L	3.3	94.6	20	85 - 115		



EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 06/30/2022 18:37
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A10	Detection and quantitation limits were raised due to matrix interference.

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Date of Report: 06/29/2022

Christopher Strong

EcoUrban Associates

P.O. Box 411

Ione, CA 95640

Client Project: [none]

BCL Project: City of Ione Groundwater Monitoring WWTP

BCL Work Order: 2214049

Invoice ID: B452258

Enclosed are the results of analyses for samples received by the laboratory on 6/16/2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Ragen Schallock", written over a horizontal line.

Contact Person: Ragen Schallock
Client Service Rep

A handwritten signature in black ink, appearing to read "Stuart Buttram", written over a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bcelabs.com

Chain of Custody

ANALYSIS REQUESTED **3.7 3.8**

* Required Fields: **77-14094**

Client/Company Name: **EcoUrban Associates**

Address: **531 W. Marlette St. City: Lone State: CA Zip: 95640**

Project Information: **City of Lone GW Monitoring WWTP**

How would you like your completed results sent? ☒ E-Mail ☐ Fax ☒ EDD ☐ Mail Only

QC Request ☐ STD ☐ Level II ☐ Result Request ** Surcharge ☐ STD ☐ Day** ☐ Day**

Sampler Name Printed / Signature

Report Attention: **Christopher Strong**

Phone: (209) 487-4802 E-mail: **cstrong@ecourbandesigns.com**

Carbon Copies: ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other: ☐

Regulatory Compliance Electronic Data Transfer: System No. ☐ Y ☐ N ☐

TEMP: **62-72-14049**

Matrix: ☐ RGW ☐ RGW ☐ RGW

Matrix Types: **RSW - Raw Surface Water CFW - Chlorinated Finished Water CWW - Chlorinated Waste Water BW - Bottled Water**
RGW - Raw Ground Water FW - Finished Water WW - Waste Water SW - Storm Water DW - Drinking Water SO - Solid

Sample #	Sample Description / Location	Sampled Date	Time	Matrix	Comments / Station Code	Relinquished by: (Signature and Printed Name)	Company	Date	Time	Relinquished by: (Signature and Printed Name)	Company	Date	Time
1	CO MW-1	6/15/12	7:55	RGW		<i>[Signature]</i>	EcoUrban Assoc.	6/15/12	1645	<i>[Signature]</i>	PACE	6-16-12	9:20
2	CO MW-2	6/15/12	8:25	RGW		<i>[Signature]</i>	PACE	6/15/12	1830	<i>[Signature]</i>	PACE	6-16-12	9:20
3	CO MW-3	6/15/12	9:03	RGW		<i>[Signature]</i>	PACE	6/15/12	1830	<i>[Signature]</i>	PACE	6-16-12	9:20

Relinquished by: (Signature and Printed Name) *[Signature]* **PACE**

Relinquished by: (Signature and Printed Name) *[Signature]* **PACE**

Received for Lab by: (Signature and Printed Name) *[Signature]* **PACE**

Received by: (Signature and Print Name) *[Signature]* **PACE**

Received by: (Signature and Print Name) *[Signature]* **PACE**

Payment Received at Delivery: *[Signature]* **PACE**

Date: **6-16-12** Amount: **9:20**

Date: **6-16-12** Amount: **9:20**

Shipping Method: **CAO UPS GSO WALK-IN SIVC FED EX OTHER**

Cooling Method: **WET BLUE NONE**

Packing Material: **WET BLUE NONE**

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Chain of Custody and Cooler Receipt Form for 2214049 Page 2 of 2

PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>1</u>	
Submission #: <u>22-14094</u> <u>DET (22-14049)</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input checked="" type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> <u>W</u> / <u>S</u>
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>0.98</u> Container: <u>PE</u> Thermometer ID: <u>337</u>		Date/Time <u>6-16-22</u>	
		Temperature: (A) <u>1.7</u> °C / (C) <u>1.6</u> °C		Analyst Init. <u>SMH</u> 9:26	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES	<u>A-C</u>	<u>A-C</u>	<u>A-C</u>							
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS	<u>D</u>	<u>D</u>	<u>D</u>							
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 505/605.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
3oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: LCI

Date/Time: 6/16/22 1830

A = Actual / C = Corrected

Rev 23 05/20/22

[2:1A]POadWordPerfectLAB_D025F0805/5/5ANRECrev 23]

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EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 06/29/2022 7:51
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2214049-01	COC Number:	---	Receive Date:	06/16/2022 09:26
	Project Number:	---	Sampling Date:	06/15/2022 07:55
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	CO MW-1	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			District ID:	
			System Number:	
			Station Number:	
			Sample Site:	
			Date Received:	
			Residual Chlorine, ppm:	
			Lab Temperature, C:	3.8
2214049-02	COC Number:	---	Receive Date:	06/16/2022 09:26
	Project Number:	---	Sampling Date:	06/15/2022 08:25
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	CO MW-2	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			District ID:	
			System Number:	
			Station Number:	
			Sample Site:	
			Date Received:	
			Residual Chlorine, ppm:	
			Lab Temperature, C:	
2214049-03	COC Number:	---	Receive Date:	06/16/2022 09:26
	Project Number:	---	Sampling Date:	06/15/2022 09:03
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	CO MW-3	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			District ID:	
			System Number:	
			Station Number:	
			Sample Site:	
			Date Received:	
			Residual Chlorine, ppm:	
			Lab Temperature, C:	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 06/29/2022 7:51
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

2214049-01

Water Analysis (Bacteriological)

COC Number:	---	District ID:	
Project Number:	---	System Number:	
Sampling Location:	---	Station Number:	
Sampling Point:	CO MW-1	Sample Site:	
Sampled By:	---	Residual Chlorine, ppm:	
Receive Date:	06/16/2022 09:26	Temperature, C:	3.8
Sampling Date:	06/15/2022 07:55		
Sample Depth:	---		
Sample Matrix:	Water		

Multiple Tube Fermentation (5,5,5)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Presumptive Test	0	Positive Tubes	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	
Total Coliform, Confirmed Test	0	Positive Tubes	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	
Total Coliform, Density	<1.8	MPN/100ml	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	

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EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 06/29/2022 7:51
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

2214049-02

Water Analysis (Bacteriological)

COC Number:	---	District ID:	
Project Number:	---	System Number:	
Sampling Location:	---	Station Number:	
Sampling Point:	CO MW-2	Sample Site:	
Sampled By:	---	Residual Chlorine, ppm:	
Receive Date:	06/16/2022 09:26	Temperature, C:	
Sampling Date:	06/15/2022 08:25		
Sample Depth:	---		
Sample Matrix:	Water		

Multiple Tube Fermentation (5,5,5)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Presumptive Test	8	Positive Tubes	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	
Total Coliform, Confirmed Test	8	Positive Tubes	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	
Total Coliform, Density	33	MPN/100ml	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	

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EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 06/29/2022 7:51
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

2214049-03

Water Analysis (Bacteriological)

COC Number:	---	District ID:	
Project Number:	---	System Number:	
Sampling Location:	---	Station Number:	
Sampling Point:	CO MW-3	Sample Site:	
Sampled By:	---	Residual Chlorine, ppm:	
Receive Date:	06/16/2022 09:26	Temperature, C:	
Sampling Date:	06/15/2022 09:03		
Sample Depth:	---		
Sample Matrix:	Water		

Multiple Tube Fermentation (5,5,5)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Presumptive Test	8	Positive Tubes	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	
Total Coliform, Confirmed Test	8	Positive Tubes	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	
Total Coliform, Density	79	MPN/100ml	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Ione, CA 95640

Reported: 06/29/2022 7:51
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Notes And Definitions

MPN Most Probable Number

GROUNDWATER MONITORING REPORT SECOND QUARTER 2022

**THE CITY OF IONE
WASTEWATER TREATMENT FACILITY (WWTF)
IONE, CA 95640**

Submitted on
JULY 29, 2022

Prepared for
**THE CITY OF IONE
1 EAST MAIN STREET
IONE, CA 95640**

Prepared by
EcoUrban Associates
PO Box 411
Ione, CA 95640

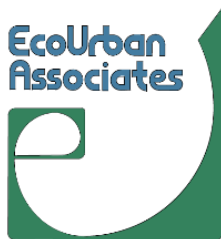


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QUARTERLY MONITORING REPORT

SECOND QUARTER 2022

Order No. R5-2013-0022 (Rev.1)

CITY OF IONE
1 E. MAIN ST.
IONE, CA 95640

1.0 INTRODUCTION

This groundwater monitoring report describes the results of the second quarter 2022 groundwater monitoring and sampling activities at the City of Ione (City) Wastewater Treatment Plant (WWTP) in Ione, California. The WWTP is located approximately 1 mile west of Ione on the south bank of Sutter Creek in Section 26, T6N, R9E, Mount Diablo Baseline and Meridian, Amador County, California. A Vicinity Map is presented as **Figure 1** in Appendix A. This Report is provided by EcoUrban Associates (EUA) at the request of the Ione City Manager to comply with groundwater monitoring requirements in the Revised Monitoring and Reporting Program (MRP) No. R5-2013-0022 (Rev.1) and Cease and Desist Order (CDO) R5-2014-0157, adopted December 5, 2014. All well monitoring and sampling activities were conducted on June 12th and 15th of 2022. Groundwater elevations are discussed in Section 5 and water quality results are summarized in Section 7 of this report.

A Site Map indicating the monitoring well locations is presented as **Figure 2** in Appendix A. Also included with this Report are field forms and laboratory analytical results. This Report was submitted to the City for review and comment and is submitted on the City's behalf by EcoUrban to the California Central Valley Regional Water Quality Control Board (RWQCB).

2.0 SITE DESCRIPTION

The WWTP is situated in Ione Valley at the south corner of the intersection between West Marlette Street and Dave Brubeck Road (formerly Old Stockton Road). All monitoring wells are spread out across the valley and bordered to the north by Sutter Creek. The topography slopes toward the west slightly and the surrounding properties are primarily agricultural. A residential neighborhood is located adjacent to the northeast corner of the site.

2.1 *Monitoring Network*

The WWTP is monitored by an on-site network of nine groundwater monitoring wells and four piezometers. Each quarter, samples are collected from the nine wells and depth-to-water measurements are collected from the nine on-site monitoring wells, the four piezometers, and the six offsite monitoring wells (MW-08 series).

The groundwater monitoring well network consists of the following: MW-1 and MW-1A, located east of the WWTP; wells MW-2A, installed in July 2013, and MW-2 monitor

groundwater downgradient from percolation Pond 5; well MW-2, located between Ponds 4 and 5 and Sutter Creek; and wells MW-3, MW-3A, MW-4, MW-4A, and MW-5A monitor downgradient groundwater. The collection of surface water samples from Sutter Creek is not required by the MRP. As previously mentioned, wells P-3 and P-5B have been added for this sampling event per CDO R5-2019-0701. As of the writing of this report, these wells are not required in future sampling events. The six offsite MW-08 series wells are located east and south of the WWTP. Deep wells are herein designated “A” and shallow wells “B”.

Three inactive wells (MW-5, MW-6, and MW-7) were destroyed during the previous quarter as described in the *Well Destruction Report* dated August 15, 2017.

3.0 MONITORING AND REPORTING REQUIREMENTS

MRP No. R5-2013-0022 (Rev.1) specifies quarterly monitoring of the site wells. The groundwater elevation is measured at all locations, and then the wells are purged of at least three casing volumes until the pH, electrical conductivity (EC), and temperature stabilize. Temperature, pH, and EC measurements are collected during purging and at the time of sampling. The MRP specifies the quarterly analysis of groundwater samples for pH, total dissolved solids (TDS), nitrate as nitrogen (nitrate-N), ammonia as nitrogen (ammonia-N), dissolved iron, dissolved manganese, and total coliform organisms (TCO).

In addition to the quarterly analyses, the annual analyses include total nitrogen (TN), dissolved arsenic, aluminum, boron, calcium, magnesium, potassium, sodium, total alkalinity (including alkalinity series), chloride, sulfate, and hardness. These annual tests are conducted in the 4th quarter of last year.

All analytical results are compared to groundwater limitations defined in the Waste Discharge Requirements Order R5-2013-0022-001 (WDR) and the CDO. Values used in this Report are included in **Table A through E** within the text of this report and in **Tables 1, 2, and 3** of the tables section of this report.

The CDO specifies quarterly monitoring of wells MW-2, MW-2A, MW-3, and MW-3A for pH, EC, dissolved oxygen (DO), oxidation-reduction potential (ORP), TDS, dissolved iron, and dissolved manganese. Results from these analyses are included in **Appendix B** of this Report.

Monitoring and sampling were performed by EcoUrban personnel who are trained in the operation of field-testing instruments and groundwater monitoring and sampling. The field technician training includes instrument calibration in compliance with the manufacturer’s recommended procedures and frequencies. Instrument calibration records are included with the field forms in **Appendix A**.

4.0 SAMPLING PROCEDURES AND WWTP POND ELEVATIONS

4.1 Quarterly Well Sampling

On June 12th and 15th of 2022, EUA performed quarterly groundwater monitoring and sampling at the WWTP. The depth to water in all WWTP monitoring wells was measured using an electrical sounding tape decontaminated between wells. All wells were purged of at least three casing volumes of water using a dedicated disposable bailer. Since dedicated bailers were used, no triple-rinse decontamination was performed for each well. Field parameters were recorded during purging with observation and documentation regarding the groundwater drawdown and recharge in each well. Purge rates ranged from approximately 0.5 gallon per minute (gpm) to 2.5 gpm, which is consistent with historical ranges.

All monitoring wells were observed to have clear to moderate clarity. No odors or sheens were noted in the purge water. All wells were checked to ensure that at least 80 percent of the pre-purge static water level was allowed to recharge before being sampled. All purged water was discharged to the ground surface adjacent to its respective well.

All groundwater samples were placed in new, sterile laboratory-supplied sample containers supplied by the analytical laboratory, were labeled, and placed in an ice chest with ice pending same-day delivery to Pace Analytical under chain-of-custody procedures. The groundwater elevations, field parameter measurements, and groundwater chemistry are in **Tables 1, 2, and 3**. Field observations of the water levels in the pond are presented in the following page in **Table A**. Elevations are based on reported average freeboard in monthly monitoring reports prepared by the City.

Table A - Freeboard and Elevation Changes (averages)

Pond	Berm Elevation	Freeboard (ft)	Pond Elevation (feet amsl)
1	278	April = 2.2 May = 2.1 June = 2.2	April = 275.8 May = 275.9 June = 275.8
2	278	April = 2.3 May = 2.2 June = 2.3	April = 275.7 May = 275.8 June = 275.7
3	278	April = 2.5 May = 2.4 June = 2.5	April = 275.5 May = 275.6 June = 275.5
4	278	April = 2.6 May = 2.6 June = 2.7	April = 275.4 May = 275.4 June = 275.3
5	278	April = 4.1 May = 2.9 June = 4.4	April = 273.9 May = 275.1 June = 273.6
6	278	April = 6.0 May = 5.0 June = dry	April = 272.0 May = 273.0 June = n/a
7	278	April = dry May = dry June = dry	April = n/a May = n/a June = n/a

5.0 GROUNDWATER ELEVATIONS AND GRADIENT

The depth to water in wells associated with the WWTP ranged from 4.80 feet in MW-08-1 to 21.52 feet in MW-3A. Depth-to-water measurements are used to calculate groundwater elevation. Measured depth to water is typically lowest (highest groundwater elevation) in first quarter and highest (lowest groundwater elevation) in third quarter. Compared to the previous quarter, the groundwater elevations in all wells decreased an average of 1.04 feet with 15 wells showing a decrease in water elevations. The greatest increase in groundwater elevation was a 0.71-foot increase at P-2; the greatest decrease in groundwater elevation was a 3.58-foot decrease at MW8-2B. Hydrographs of the site groundwater elevation data are shown in **Figure 4**.

The groundwater gradient upstream and downstream from the WWTP and adjacent to Sutter Creek is down-valley (west) and parallel to Sutter Creek. Historically, various groundwater mounds or domes have been observed under the WWTF which may be caused by the abrupt curvature of Sutter Creek in the northwestern part of the WWTF and other potential factors like ground infiltration in the eastern part of the WWTF property or potential gravel channels in the northwestern part. The mound results in a relatively flat gradient [approximately 0.002 feet per foot (ft/ft)] between MW-1A and MW-1 east of the ponds and relatively steep gradient (approx. 0.006 ft/ft) along the southern part of the property. The average down-valley gradient is approximately 0.0055 ft/ft. A map of the estimated potentiometric surface is shown in **Figure 3**.

6.0 LABORATORY ANALYTICAL RESULTS

Groundwater samples collected this quarter were analyzed by Pace Analytical in Bakersfield, California. The laboratory data from this quarter along with the CDO required data are summarized in **Table 2**. The complete historical data set for the active groundwater monitoring wells are tabulated in **Tables 1, 2 and 3**. Existing California primary and secondary Drinking Water Maximum Contaminant Levels (MCLs) are included in the tables and constituents occurring in concentrations greater than the MCLs are highlighted in yellow. In addition, TDS is compared to the Water Quality Goal (WQG) for Agricultural Use Protective Limits specified by the State Water Resources Control Board. Laboratory estimated values occurring below the Practical Quantitation Limits (PQL) and above the Method Detection Limit (MDL) are highlighted in blue. Laboratory certificates of analyses, quality control records, and chain-of-custody records are included in **Appendix B**.

7.0 DISCUSSION

7.1 Groundwater Elevation

The groundwater gradient indicates a west-southwest groundwater flow direction with a slope of approximately 0.0055 ft/ft. As usual, groundwater elevations remain at levels highest in the first quarter and lowest in the third. Mounding appears to be present in the northern and southeastern parts of the WWTF, as referenced above. Groundwater gradient directions and magnitudes this quarter are generally consistent with historical ranges.

7.2 Water Quality

Below is a description of the analytes that were tested this quarter as required for quarterly and annual monitoring as compared to MCLs.

Groundwater limitations for TCO and Title 22 constituents are specified in the WDR. The TCO limitation is 2.2 most probable number per milliliter (MPN/100 ml) as a 7-day median. For Title 22 constituents, laboratory results are compared to primary and secondary drinking water MCLs published by the Regional Board. TCO was detected above the MCL (2.2 MPN/100 ml) in five of the nine wells sampled. TCO was not tested from well MW-3A due to a missing sample container. Various wells have had sporadic TCO detection in the past with higher levels being detected more frequently in the wet season. *It should be noted that detectable levels and levels over the TCO limitation continue to be observed in wells MW-1 and MW-1A, which indicates that sources of bacteria may also be from upgradient sources besides the WWTF.*

Site pH results were within the agricultural beneficial use (WQO) of 6.5 standard units (SU) to 8.4 SU for five of the nine monitoring wells this quarter. The results for this event

are within historic ranges and natural ranges for most natural groundwater within the U.S.¹

Nitrate-N concentrations in all groundwater samples were below the drinking water primary MCL of 10 milligrams per liter (mg/L). Nitrate-N concentrations appear to have normalized below MCLs since 2016. Temporal changes in groundwater nitrate-N are shown in **Figure 6**.

Total nitrogen (TN) can be a preferred parameter when evaluating nitrogen impacts from wastewater treatment plants because it includes the sum of nitrate-N and total Kjeldahl nitrogen (TKN), including ammonia-N. Nitrogen can convert to any of these forms depending on redox conditions and biological activity in soil. Although there is no numeric groundwater limitation for total nitrogen, the MCL for nitrate-N was applied. The highest TN concentration detected was from Well MW-3A which was detected a total nitrogen of 4.4 mg/L. Total nitrogen in groundwater and historical effluent are plotted in **Figure 7**.

Ammonia-N was detected above the taste and odor threshold of 1.5 mg/L in MW-1A, MW-2, MW-2A, MW-3, and MW-3A. The highest detection of nitrogen was found in the form of ammonia-N and was observed at wells MW-3A (4.4 mg/L ammonia-N), MW-1A (1.9 mg/L), MW-2 (2.2 mg/L), MW-2A (3.1 mg/L), and MW-3 (1.8 mg/L). Ammonia-N was detected at very low to trace levels in all other wells although reporting limits were above the MDL but below the PQL. These results are consistent with historic values.

TDS values in all wells were below the agricultural WQG of 450 mg/L and are graphed in **Figure 10**. The TDS:EC ratios for natural waters typically range from 0.55 to 0.75.² The ratios in the second quarter 2022 ranged from 0.68 to 0.76 with an average ratio of 0.73.

Low (≤ 10 mV) oxidation-reduction potential (ORP) conditions were only present in MW-2 (-37 mV), MW-2A (-70 mV) and MW-3A (-57 mV). This is generally consistent with historical measurements, albeit slightly more oxidized. Fluctuations with time in ORP are shown in **Figure 11**.

DO values are within the historical ranges for that parameter. DO values in downgradient wells MW-2, MW-2A, MW-3, MW-3A, MW-4, MW-4A, and MW-5A ranged between 0.95 mg/L (MW-3A) and 2.46 mg/L (MW-2). DO values in upgradient wells MW-1 and MW-1A,

¹ Hem, John D., Study and Interpretation of Chemical Characteristics of Natural Water, Geological Survey Water – Supply Paper H73, p63-64, 1978.

² Hem, John D., Study and Interpretation of Chemical Characteristics of Natural Water, Geological Survey Water – Supply Paper H73, p. 99, 1978.

detected DO concentrations at 6.95 mg/L and 3.95 mg/L, respectively. Groundwater from wells is purged by the hand bailer method using dedicated disposable bailers.

The secondary MCL for manganese is 0.05 mg/L. Secondary MCLs are not health-based limits and this value is set at the concentration at which visible staining of plumbing fixtures can occur. Dissolved manganese exceeded the secondary limit in seven of the nine wells sampled this quarter; this is all groundwater the samples except MW-1 and MW-1A. The highest dissolved manganese concentration (6.4 mg/L) was in the cross-gradient well MW-3A at the northwest side of the WWTF. This seems to further indicate that the manganese source is naturally occurring from lateritic bedrock conditions but are mobilized via oxidizing conditions along Sutter Creek. A 12-year upward manganese trend has been observed in MW-4 located down gradient from Pond 7 but it appears to have stabilized in recent years. A previous downward trend in MW-5A that started trending upward in December 2015 appears to also be normalizing. Total and dissolved manganese concentrations in groundwater versus time are plotted in **Figure 8**.

The secondary MCL for iron is 0.3 mg/L. Iron was not detected above MCL's in any of the monitoring wells this quarter. Since liners have been installed into ponds, iron levels appear to have become almost undetectable across the entire facility. Total and dissolved iron concentrations in groundwater versus time are plotted in **Figure 9**.

The CDO specifies concentration limits for dissolved manganese and iron at MW-2, MW-2A, MW-3, and MW-3A. The October 2015, 2016, and 2017 Constituent Concentration Levels were not reached in time; anticipating this, the City submitted the 2020 Capacity Expansion Completion Report with information intended to meet the requirements on page 16 of the CDO Item 6B. In 2017, the City began draining and removing sludge from Ponds 1 through 4 in anticipating of lining these ponds. *In the fourth quarter of 2019, the lining of the ponds was completed.* The City is currently in the process of resolving the CDO. Long-term historic data as well as local hydrogeologic conditions indicate that the allegedly elevated manganese levels could be due to or related to naturally-existing conditions such as lateritic bedrock interacting with oxidized groundwater. **Table B**, **Table C**, and **Table D** are presented on the following page. These tables show the current concentrations in comparison with the 2015, 2016, and 2017 concentration limits.

Table B: 2015 Constituent Concentration Limits

Well	Constituent	Concentration Limit (µg/L) to be met by 30 October 2015	Second Quarter 2022 Concentration (µg/L)
MW-2	Diss. Manganese	2,930	3,300
MW-2A	Diss. Manganese	2,560	3,200
MW-3	Diss. Manganese	4,200	4,100
MW-3A	Diss. Manganese	5,500	6,400
MW-2	Diss. Iron	1,940	<30
MW-2A	Diss. Iron	10,820	97
MW-3	Diss. Iron	<300	<30
MW-3A	Diss. Iron	4,000	200

Bold values exceed the October 30, 2015 concentration limits

Table C: 2016 Constituent Concentration Limits

Well	Constituent	Concentration Limit (µg/L) to be met by 30 October 2016	Second Quarter 2022 Concentration (µg/L)
MW-2	Diss. Manganese	1,850	3,300
MW-2A	Diss. Manganese	1,720	3,200
MW-3	Diss. Manganese	3,900	4,100
MW-3A	Diss. Manganese	4,500	6,400
MW-2	Diss. Iron	1,760	<30
MW-2A	Diss. Iron	9,020	97
MW-3	Diss. Iron	<300	<30
MW-3A	Diss. Iron	3,500	200

Bold values exceed the October 30, 2016 concentration limits

Table D: 2017 Constituent Concentration Limits

Well	Constituent	Concentration Limit (µg/L) to be met by 30 October 2017	Second Quarter 2022 Concentration (µg/L)
MW-2	Diss. Manganese	770	3,300
MW-2A	Diss. Manganese	880	3,200
MW-3	Diss. Manganese	3,600	4,100
MW-3A	Diss. Manganese	3,500	6,400
MW-2	Diss. Iron	1,460	<30
MW-2A	Diss. Iron	7,220	97
MW-3	Diss. Iron	<300	<30
MW-3A	Diss. Iron	3,000	200

Bold values exceed the October 30, 2017 concentration limits

8.0 CONCLUSIONS

- Various analytes that were tested as required for annual and quarterly monitoring were detected above MCLs.
- Coliform levels appear to show a pattern of slightly increasing in the wetter quarters (4th and 1st quarters) and lower in the dryer quarters (2nd and 3rd quarters). The contaminant appears to be naturally present in the groundwater both upgradient and downgradient although TCO levels are generally higher (and dissolved oxygen levels lower) under the wastewater facility.
- Groundwater elevations for the WWTP wells in the second quarter of 2022 averaged approximately 1.04 feet lower than the previous quarter.
- The secondary MCLs for dissolved manganese was exceeded in wells MW-2, MW-2A, MW-3, MW-3A, MW-4, MW-4A, and MW-5A. This is consistent with historic data.
- The secondary MCLs for dissolved iron were not exceeded in any wells. The trend has decreased and stabilized at trace to relatively low levels.
- Secondary MCL for ammonia-N (1.5 mg/L) were exceeded in five wells (MW-1A, MW-2, MW-2A, MW-3, and MW-3A). Wells MW-1A, MW-2, and MW-3, appear to be on a decreasing trend, which may be due to the recently lined ponds and emerging oxidizing conditions.
- TDS concentrations were below the agricultural WQG in all wells.
- The nitrate-N concentrations are below the primary MCL of 10 mg/L in all wells. Historically, the highest nitrate-N concentrations are in upgradient well MW-1A but they now appear to be highest in downgradient well MW-4A. This trend will continue to be monitored.
- DO values in downgradient wells MW-2, MW-2A, MW-3, MW-3A, MW-4, MW-4A, and MW-5A ranged between 0.95 mg/L (MW-3A) and 2.46 mg/L (MW-2). These levels are within historical ranges.
- ORP values this quarter are similar to historical values. Lowest (≤ 10 mV) ORP conditions were present deeper monitoring wells (MW-2A and MW-3A). Well MW-2 was the only other well where negative ORP levels were observed. All other wells show positive ORP results. This is consistent with historic ranges.

9.0 RECOMMENDATIONS

EcoUrban Associates recommends the following:

- Change sampling frequency from a quarterly basis to a semi-annual basis due to consistent trends that been established and revise the existing MRP No. R5-2013-0022 (Rev1) accordingly.
- CDO No. R5-2014-0157 should be lifted due to evidence indicating that manganese and iron levels are naturally-occurring.

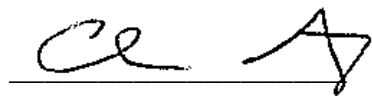
10.0 LIMITATIONS AND SIGNATURE

This report has been prepared under the direct supervision of a Professional Geologist in the State of California. The standard of care for all services performed or furnished by EcoUrban Associates is the care and skill ordinarily used by members of the environmental profession practicing under similar conditions at the same time in the same locality. EcoUrban Associates is not responsible for the accuracy and completeness of information collected and developed by others.

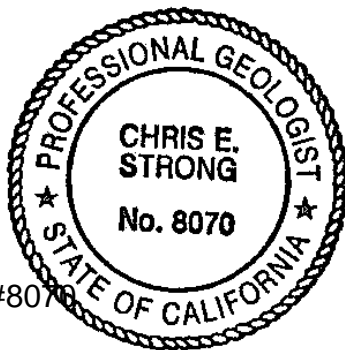
This Report was prepared for the sole use of the City and may not be used or relied upon by any other person(s) without the express written consent and authorization of the City and EcoUrban Associates. If any changes are made or errors found in the information used for this Report, the interpretations and conclusions contained herein shall not be considered valid unless the changes or errors are reviewed EcoUrban Associates and either appropriately modified or re-approved in writing. Any questions regarding the content of this document should be directed to the City Manager for Lone, at (209) 274-2412, extension 111, or to Christopher E. Strong of EcoUrban Associates at (209) 487-4802.

Respectfully submitted,

EcoUrban Associates

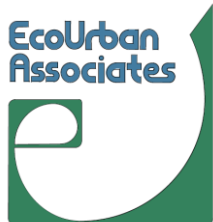
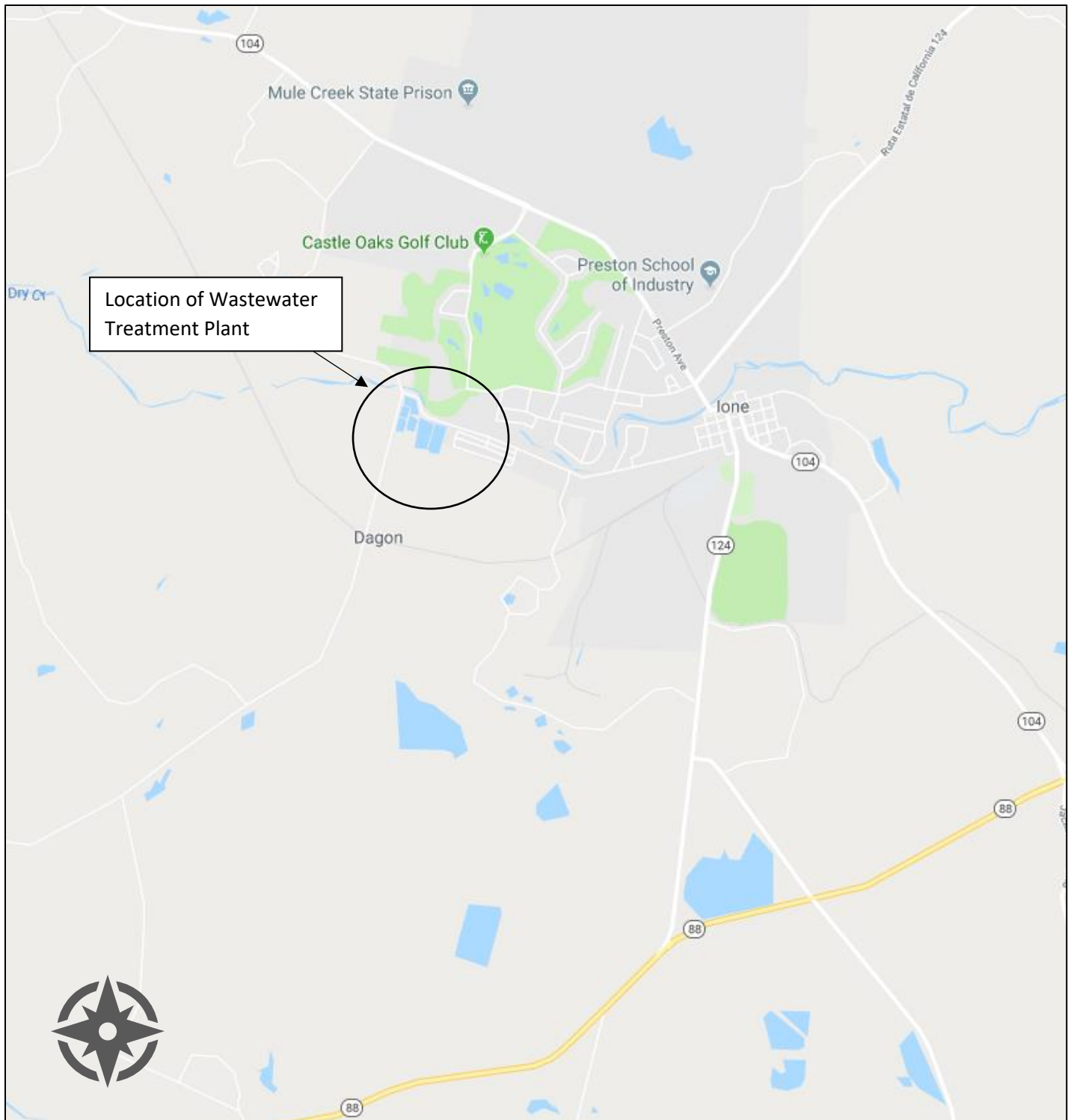


Christopher E. Strong, PG #8070
Senior Geologist



FIGURES

Site Maps and Time-Trend Plots



EcoUrban Associates
PO Box 411
Lone, CA 95640
(209) 487-4802

Figure 1
Site Vicinity Map
City of Lone
Wastewater Treatment System
Lone, CA

Project No.: AMA.104.01

Drawn by: CES

Dated: 04/16/18

Scale: 1" = 3,000'

Rev'd by: CES



Figure 2
Monitoring Well Location Map
Second Quarter 2022
Wastewater Treatment Facility
City of Lone
Lone, California

Project No.: AMA.104.01
Drawn by: CES
Dated: 7/15/22
Scale: ~1"=1,000'
Rev'd by: CES

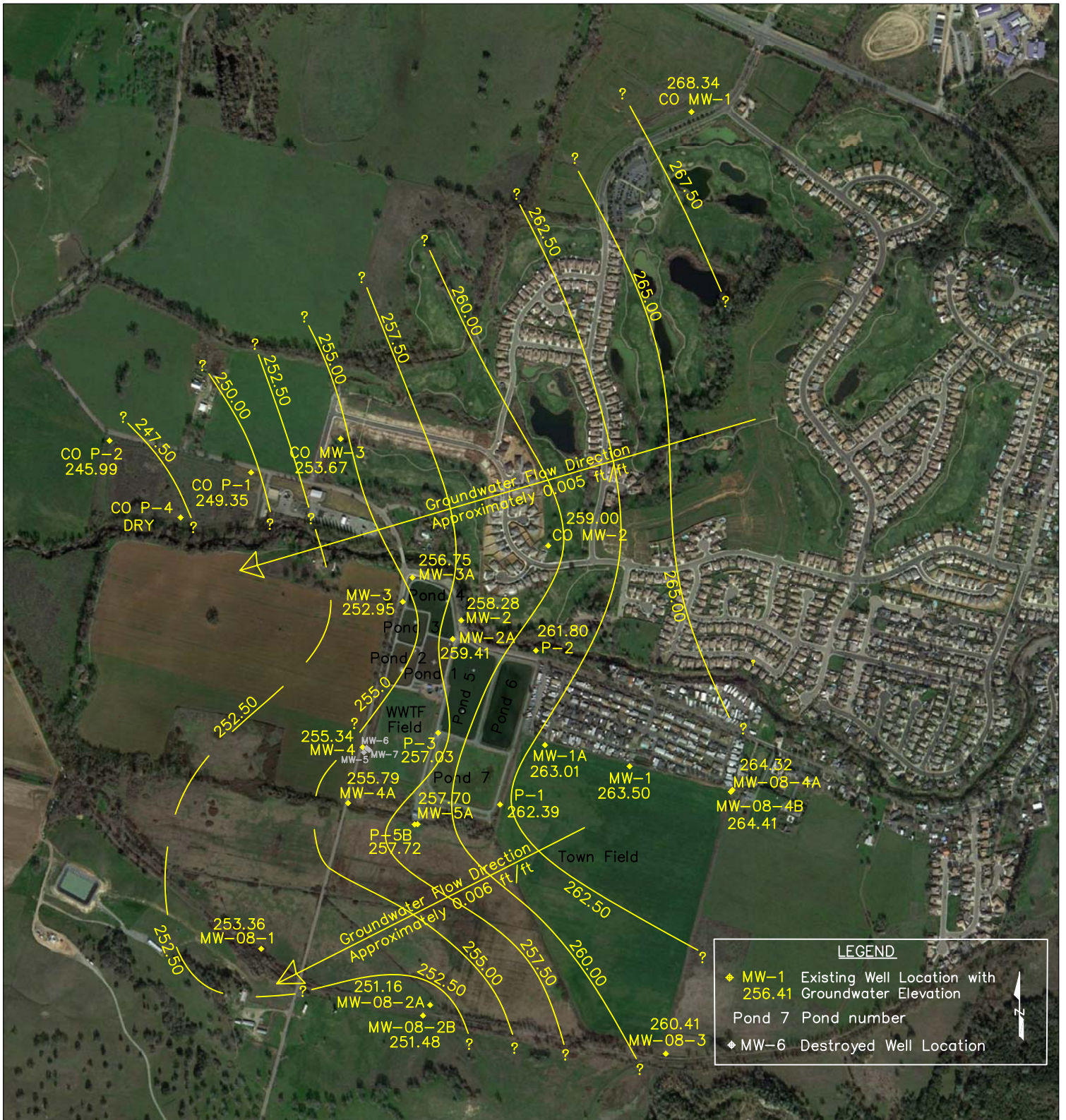


Figure 3
Groundwater Gradient Map
Second Quarter 2022
Wastewater Treatment Facility
City of Lone
Lone, California



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Lone, CA 95640
(209)487-4802

Project No.: AMA.104.01

Drawn by: CES

Dated: 7/15/22

Scale: ~1"=1,000'

Rev'd by: CES

Figure 4 - Hydrograph
City of Lone WWTP

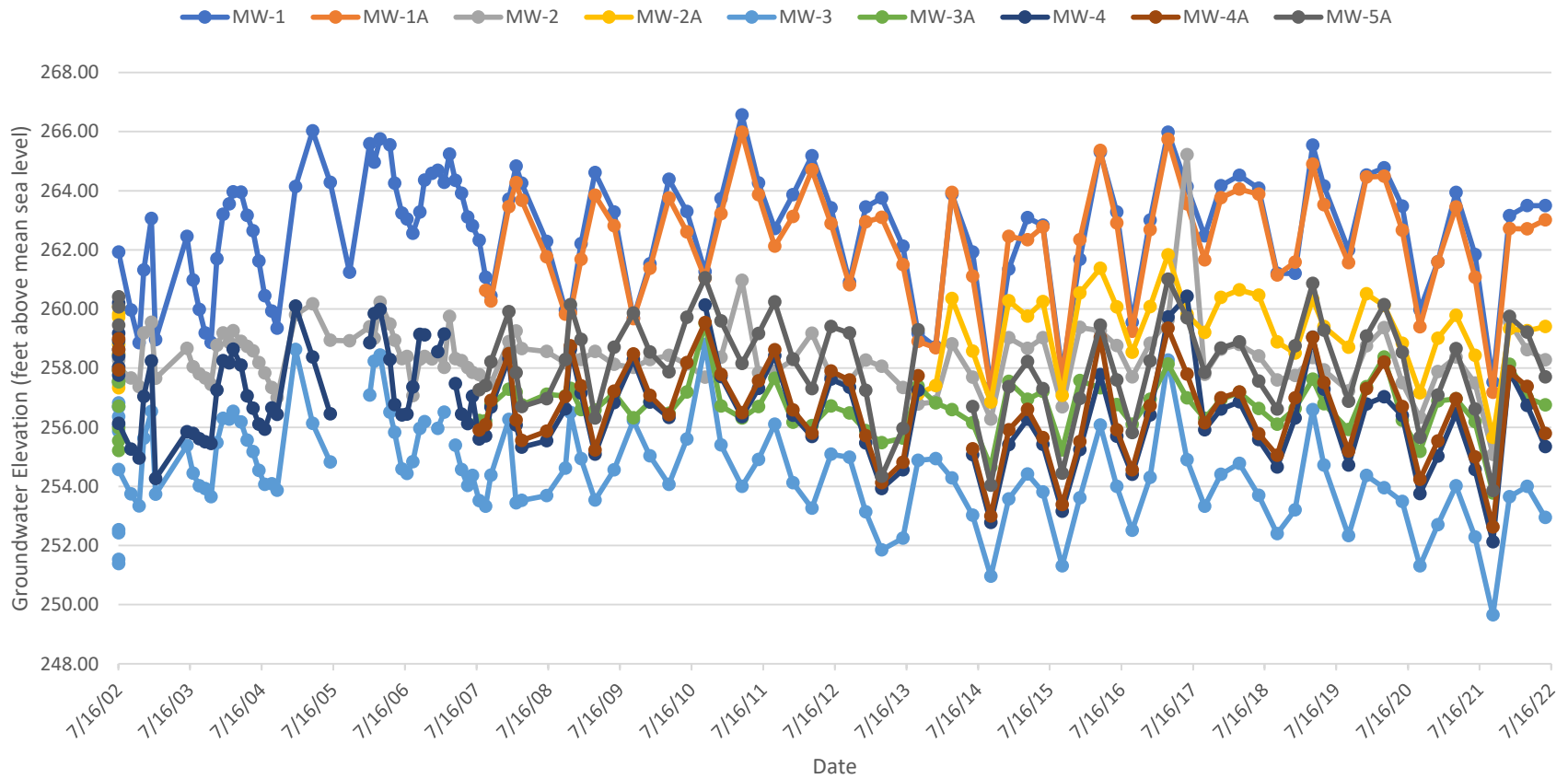


Figure 5 - Total Coliform Organism in Groundwater
City of Lone WWTP

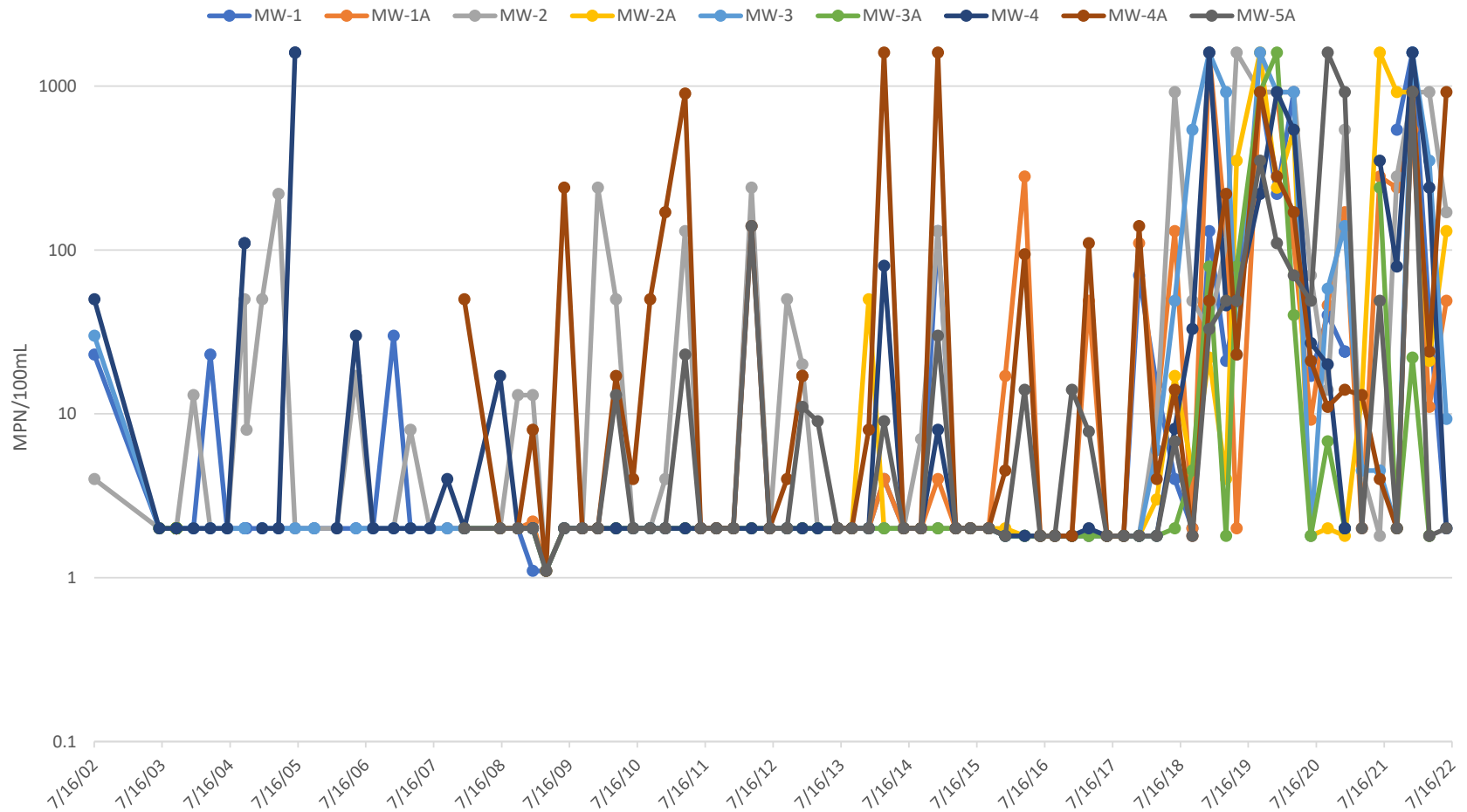


Figure 6 - Nitrate as Nitrogen
City of Ione WWTP

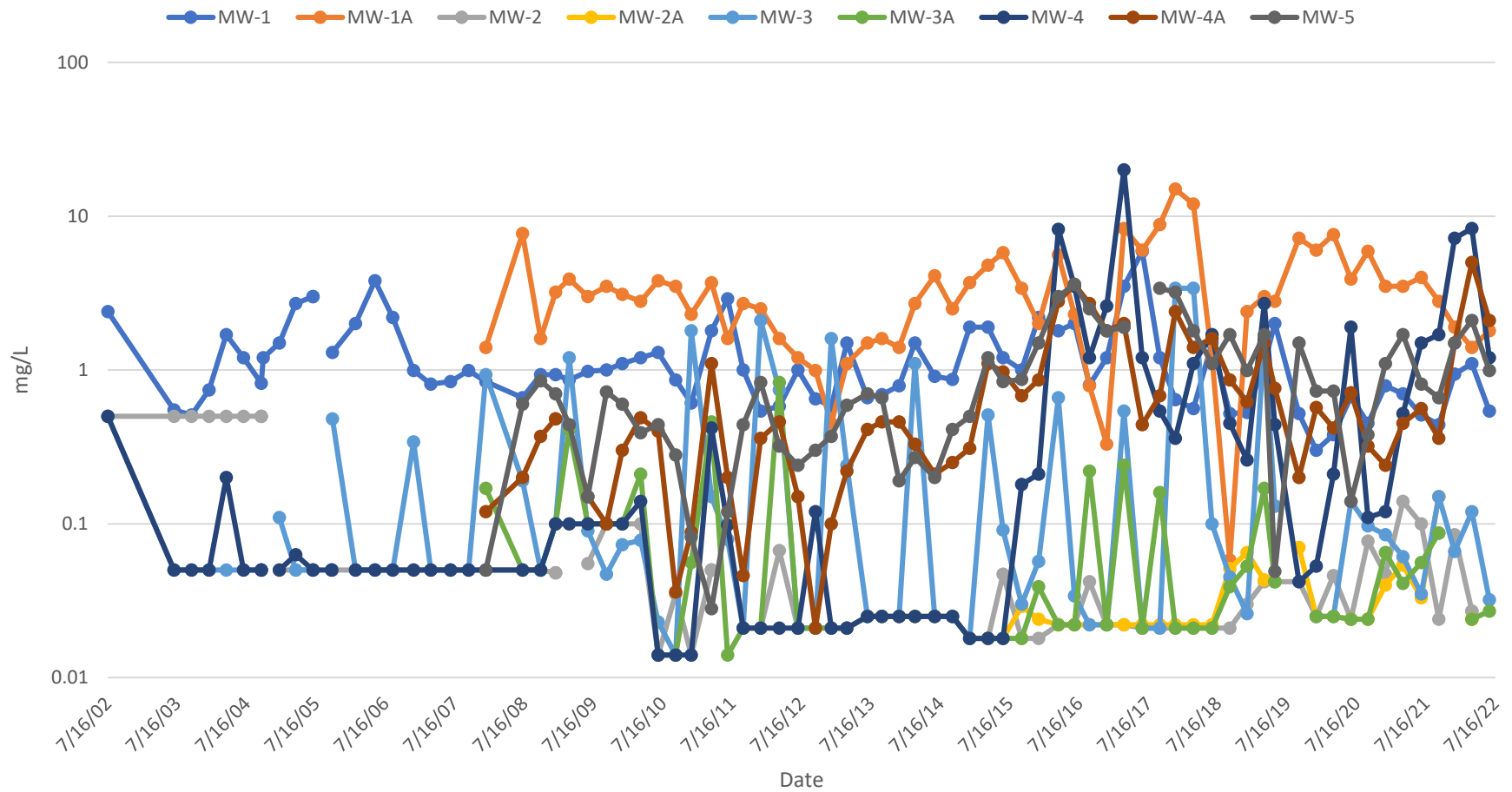


Figure 7 - Total Nitrogen in Groundwater
City of Lone WWTP

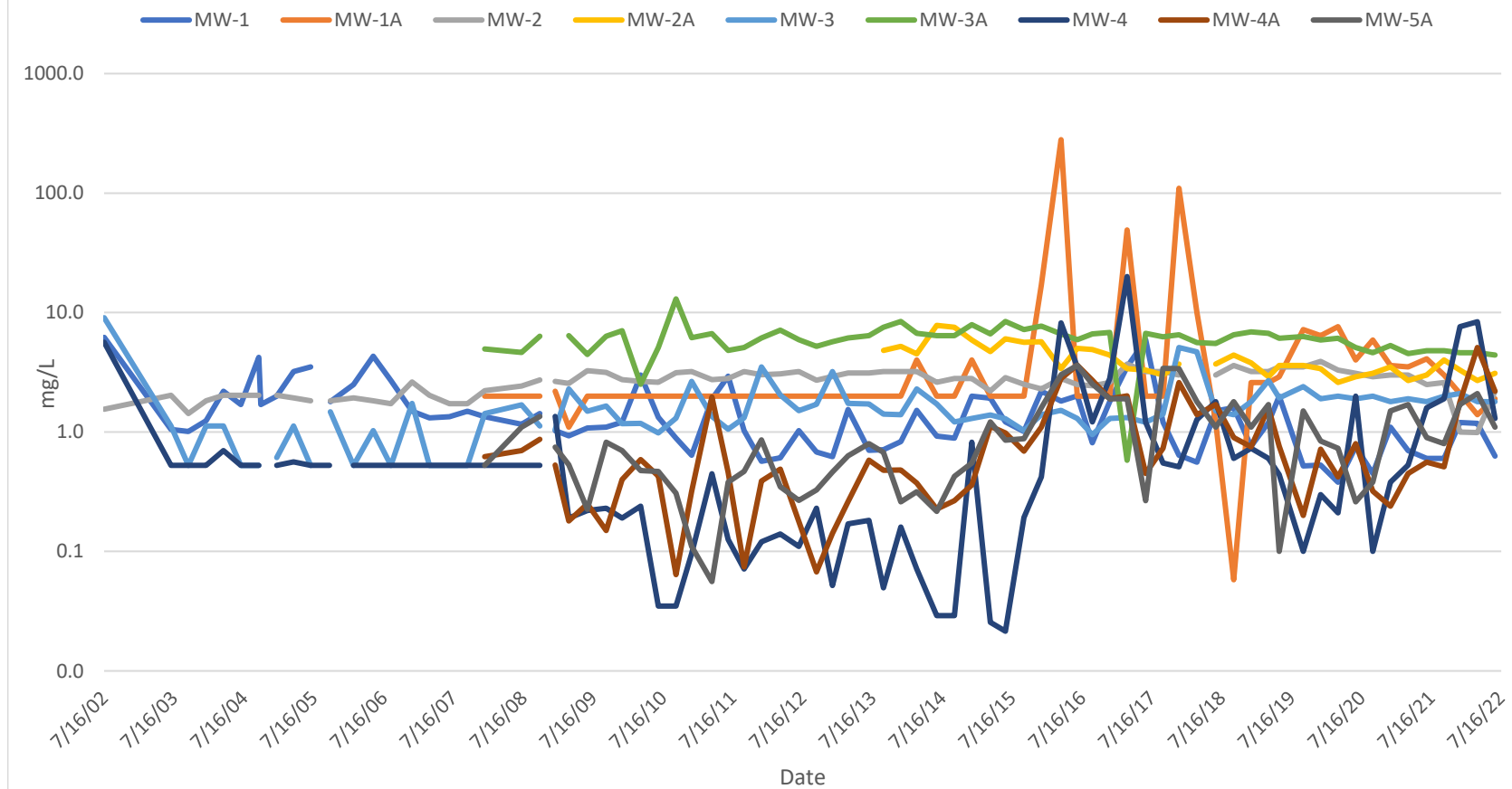


Figure 8 - Total and Dissolved Manganese in Groundwater
City of Lone WWTP

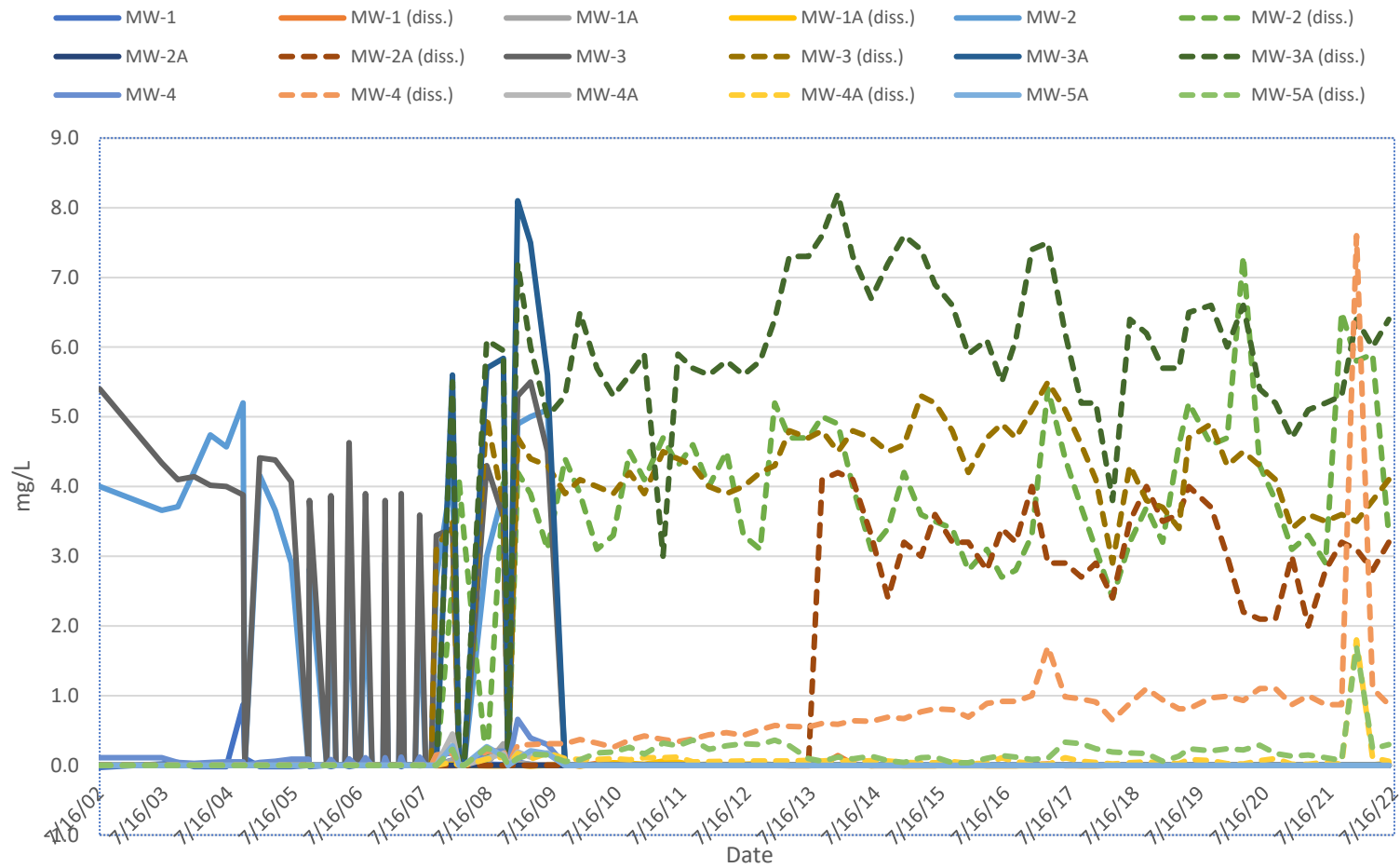


Figure 9 - Total and Dissolved Iron in Groundwater
City of Lone WWTP

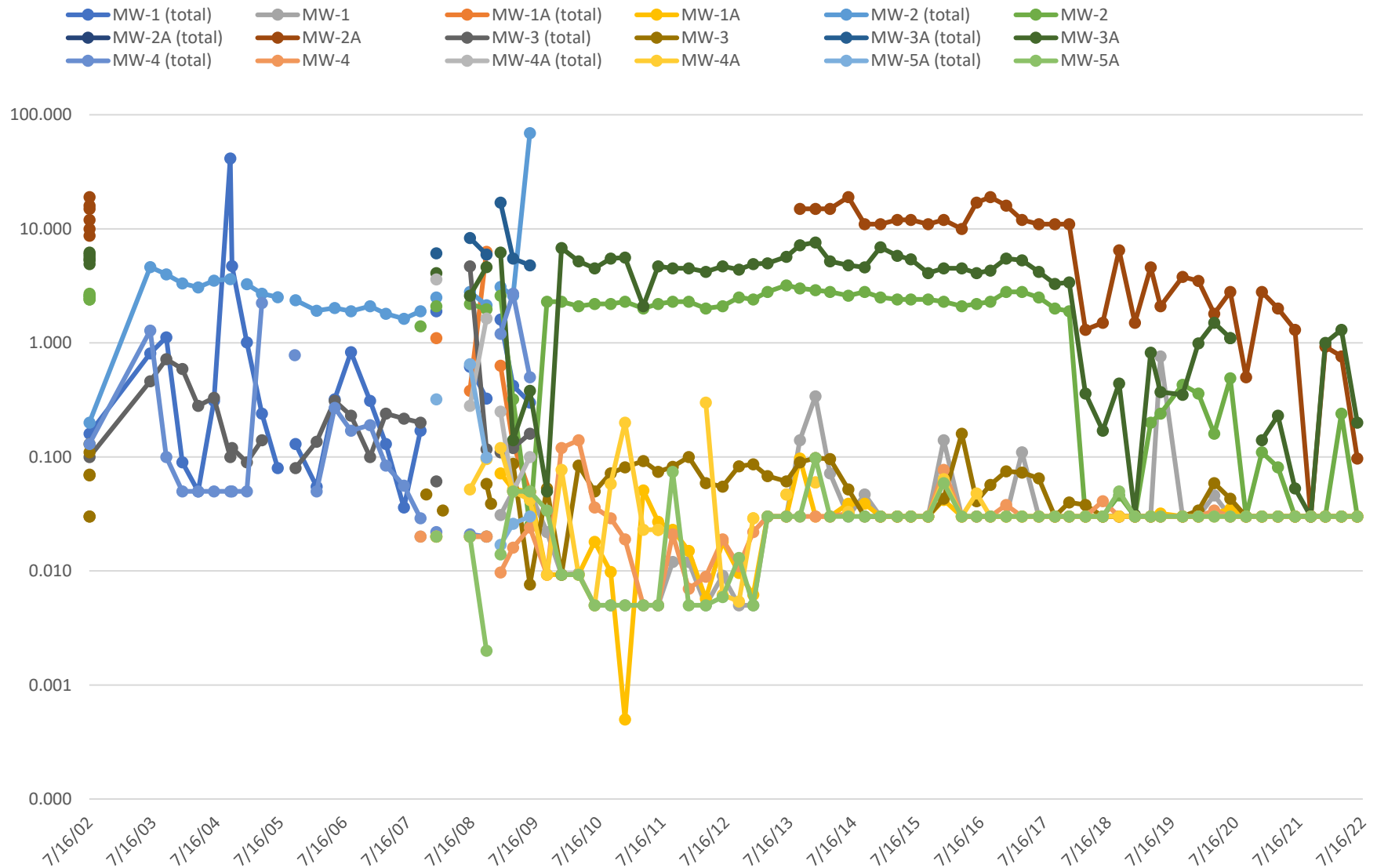


Figure 10 - Total Dissolved Solids in Groundwater
City of Lone WWTs

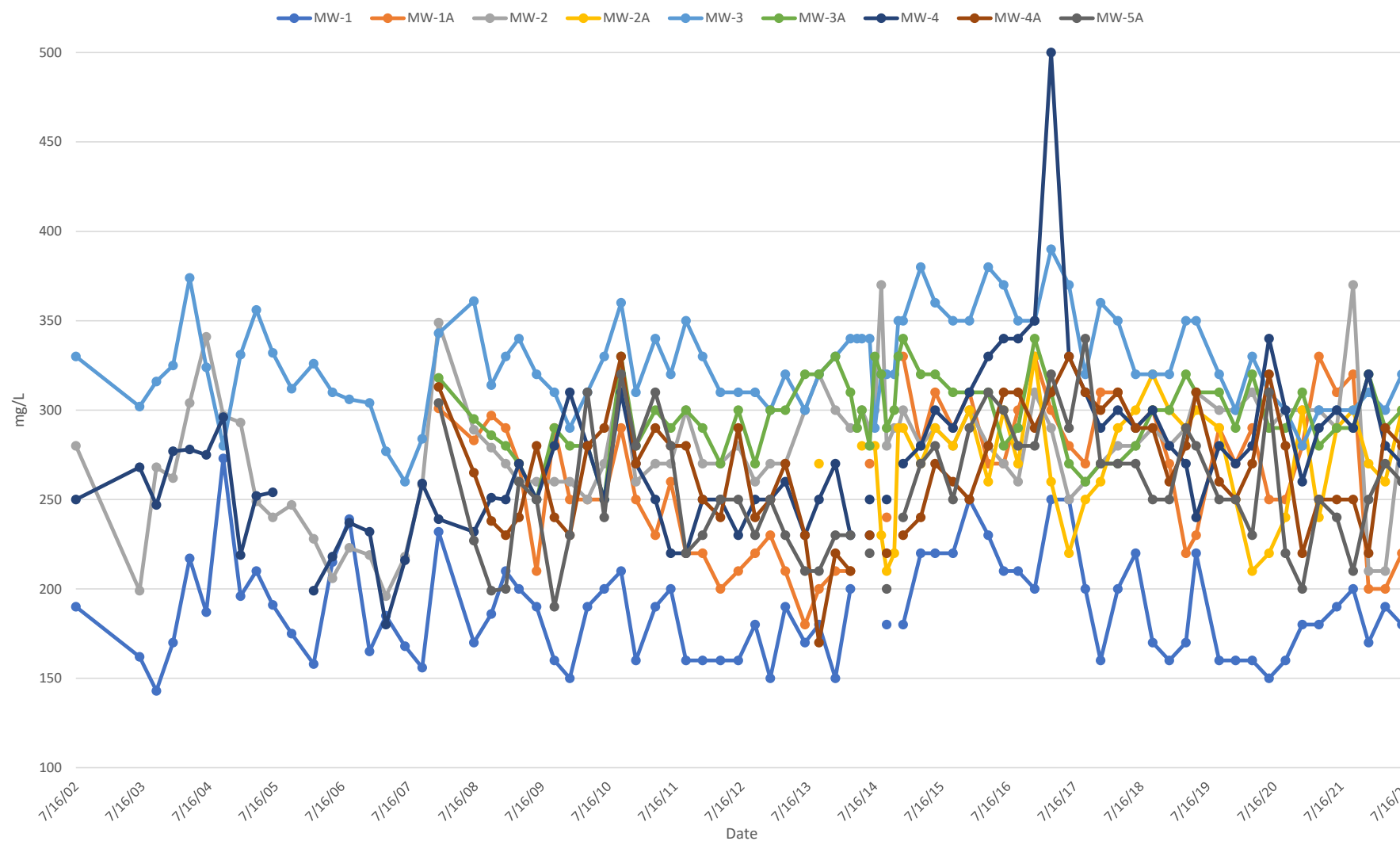
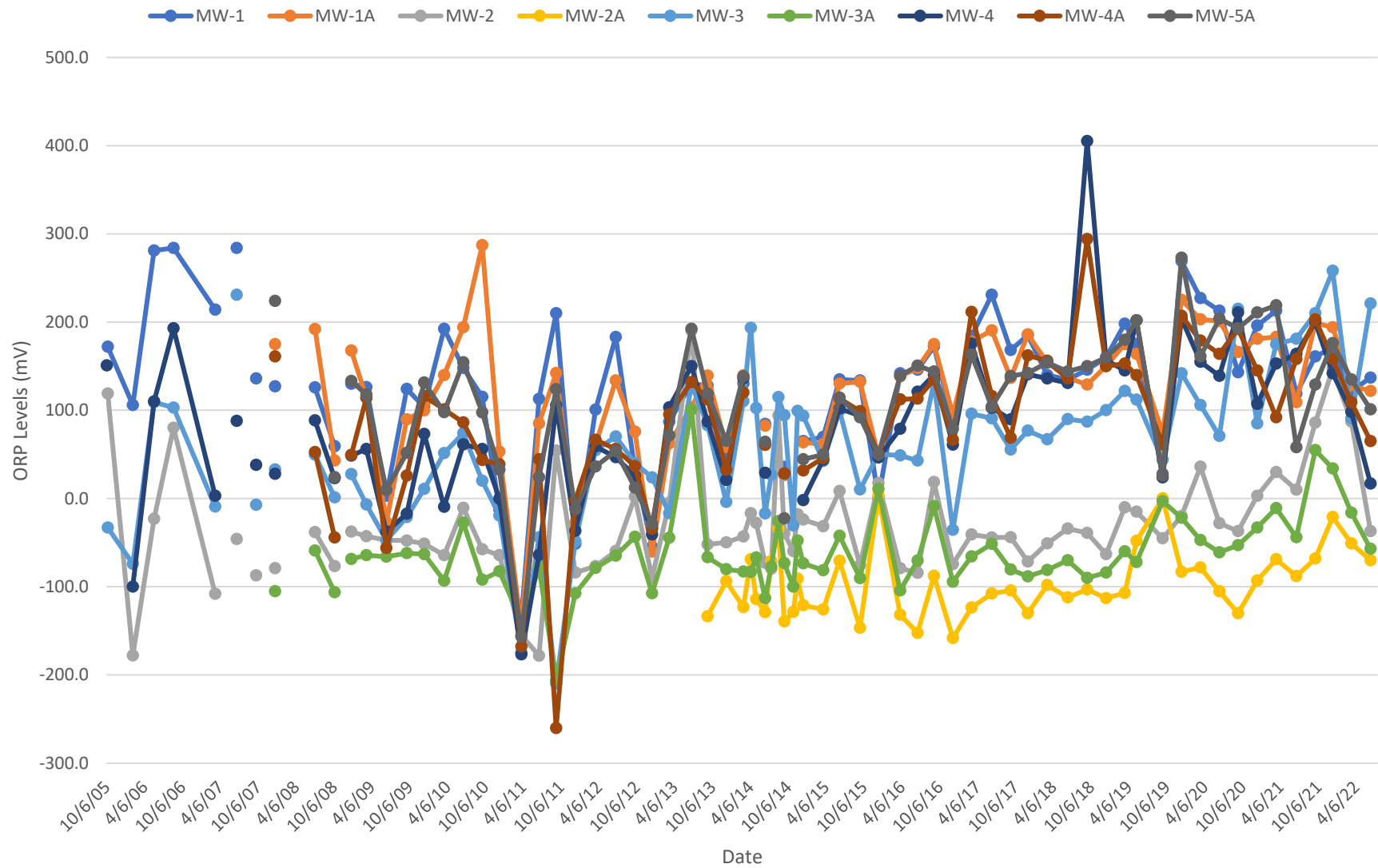


Figure 11 - Oxidation-Reduction Potential in Groundwater
City of Lone WWTP



TABLES

Historic Groundwater Data

Table 1
Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Field Measurements									
			Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
Background Wells												
MW1	274.17	7/16/02	12.25	261.92	274.17			6.90				
MW1		9/18/02	14.21	259.96	274.17							
MW1		10/29/02	15.31	258.86	274.17							
MW1		11/22/02	12.85	261.32	274.17							
MW1		12/31/02	11.11	263.06	274.17							
MW1		1/21/03	15.21	258.96	274.17							
MW1		6/30/03	11.72	262.45	274.17			6.80				
MW1		7/31/03	13.19	260.98	274.17							
MW1		8/31/03	14.19	259.98	274.17							
MW1		9/30/03	14.98	259.19	274.17			6.90				
MW1		10/31/03	15.30	258.87	274.17							
MW1		11/30/03	12.47	261.70	274.17							
MW1		12/31/03	10.97	263.20	274.17			6.80				
MW1		1/31/04	10.62	263.55	274.17							
MW1		2/20/04	10.21	263.96	274.17							
MW1		3/31/04	10.22	263.95	274.17			6.80				
MW1		5/2/04	11.01	263.16	274.17							
MW1		6/1/04	11.53	262.64	274.17							
MW1		6/30/04	12.55	261.62	274.17			6.80				
MW1		7/31/04	13.72	260.45	274.17							
MW1		9/4/04	14.24	259.93	274.17							
MW1		10/1/04	14.82	259.35	274.17			6.90				
MW1		10/12/04		0.00				6.80				
MW1		1/4/05	10.03	264.14	274.17			6.80				
MW1		4/1/05	8.15	266.02	274.17			6.90				
MW1		6/30/05	9.89	264.28	274.17			6.80				
MW1		10/6/05	12.93	261.24	274.17							
MW1		10/11/05		0.00		15	18.4	6.80	310	3.0	172.0	
MW1		1/17/06	8.58	265.59	274.17							
MW1		2/9/06	9.21	264.96	274.17	8	17.5	6.90	320	5.7	106.0	
MW1		3/10/06	8.42	265.75	274.17							
MW1		4/29/06	8.62	265.55	274.17							
MW1		5/23/06	9.92	264.25	274.17	14	16.3	6.80	330	13.4	281.0	
MW1		6/30/06	10.93	263.24	274.17							
MW1		7/25/06	11.13	263.04	274.17							
MW1		8/24/06	11.61	262.56	274.17	12	17.8	6.80	340	5.6	284.0	
MW1		9/29/06	10.89	263.28	274.17							
MW1		10/24/06	9.81	264.36	274.17							
MW1		11/30/06	9.59	264.58	274.17							

Table 1
Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Field Measurements									
			Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
MW1	Continued 274.17	12/12/06		0.00				6.80				
MW1		12/29/06	9.48	264.69	274.17							
MW1		1/31/07	9.89	264.28	274.17							
MW1		2/27/07	8.93	265.24	274.17							
MW1		3/13/07		0.00		14	17.1	6.90	95 Q	6.7	214	
MW1		3/30/07	9.82	264.35	274.17							
MW1		4/30/07	10.26	263.91	274.17							
MW1		5/31/07	11.06	263.11	274.17							
MW1		6/25/07	11.36	262.81	274.17	8	17.5	6.90	85 Q	8.0	284	
MW1		7/29/07	11.85	262.32	274.17							
MW1		8/30/07	13.10	261.07	274.17							
MW1		9/27/07	13.72	260.45	274.17	8	18.9	6.90	300	7.2	136	
MW1		12/27/07	10.46	263.71	274.17	8	17.8	6.80	370	4.2	127	
MW1		2/2/08	9.34	264.83	274.17							
MW1		3/2/08	9.92	264.25	274.17							
MW1		7/7/08	11.89	262.28	274.17	7	17.24	7.04	291	7.9	126	
MW1		10/10/08	14.22	259.95	274.17	5	18.56	6.47	261	6.0	59.2	
MW1		11/5/08	14.21	259.96	274.17							
MW1		12/29/08	11.96	262.21	274.17	7	18.22	6.70	298	3.4	130	
MW1		3/11/09	9.56	264.61	274.17	8	14.28	6.86	292	5.4	126.3	191
MW1		6/16/09	10.89	263.28	274.17	8	17.12	6.75	284	5.3	3.0	185
MW1		9/22/09	14.48	259.69	274.17	5	17.7	6.11	274	5.98	124.3	178
MW1		12/15/09	12.64	261.53	274.17	8	17.9	7.08	256	2.90	103.7	166
MW1		3/22/10	9.78	264.39	274.17	8	14.7	6.81	358	7.42	192.3	235
MW1		6/22/10	10.87	263.30	274.17	8	16.5	6.73	331	7.95	148.0	216
MW1		9/22/10	12.91	261.26	274.17	6	17.20	6.78	304	4.68	115.2	198
MW1		12/13/10	10.44	263.73	274.17	8	16.78	6.97	290	2.93	-12.6	189
MW1		3/29/11	7.61	266.56	274.17	9	16.03	6.75	311	5.81	-136.1	202
MW1		6/22/11	9.91	264.26	274.17	8	16.39	6.85	286	6.47	112.8	106
MW1		9/13/11	11.45	262.72	274.17	7	17.28	6.59	234	4.11	210.1	152
MW1		12/14/11	10.31	263.86	274.17	8	16.72	7.65	264	3.39	-51.6	171
MW1		3/21/12	8.99	265.18	274.17	8	16.09	6.31	248	5.34	100.8	161
MW1		6/26/12	10.75	263.42	274.17	8	16.40	6.73	247	4.65	183.0	161
MW1		9/27/12	13.26	260.91	274.17	6	17.31	6.28	246	3.24	32.0	160
MW1		12/19/12	10.72	263.45	274.17	8	17.14	7.12	234	2.84	-54.9	152
MW1		3/11/13	10.42	263.75	274.17	9	16.38	6.69	290	5.63	87.0	189
MW1		6/27/13	12.05	262.12	274.17	7	16.86	7.29	255	5.28	130.0	166
MW1		9/12/13	14.99	259.18	274.17	10	17.98	6.65	267	4.86	127.9	173
MW1		12/11/13	15.45	258.72	274.17	5	18.41	6.76	275	3.36	50.6	178
MW1		3/4/14	10.29	263.88	274.17	8	16.60	7.40	321	6.46	130.3	209
MW1		6/17/14	12.25	261.92	274.17	7	17.44	6.74	315	6.52	84.5	205
MW1		9/18/14	16.82	257.35	274.17	5	18.46	6.75	286	6.81	35.7	186
MW1		12/18/14	12.82	261.35	274.17	6	18.76	6.77	258	3.52	65.0	167
MW1		3/24/15	11.08	263.09	274.17	8	16.62	6.68	344	7.63	69.8	223
MW1		6/11/15	11.34	262.83	274.17	8	17.49	6.53	327	7.45	135.0	212
MW1		9/17/15	16.33	257.84	274.17	5	19.13	6.61	331	6.00	133.8	215

Table 1
Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Field Measurements									
			Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
MW1	continued 274.17	12/16/15	12.49	261.68	274.17	9	19.41	6.70	380	2.69	45.7	247
MW1		3/29/16	8.87	265.30	274.17	8	17.16	6.65	357	6.87	141.9	232
MW1		6/21/16	10.89	263.28	274.17	8	17.52	6.53	331	7.56	145.9	215
MW1		9/8/16	14.62	259.55	274.17	9	18.60	6.46	298	4.85	172.4	193
MW1		12/8/16	11.17	263.00	274.17	8	18.4	6.70	298	3.89	88.9	194
MW1		3/9/17	8.19	265.98	274.17	9	16.7	6.70	357	5.10	183.9	232
MW1		6/14/17	10.03	264.14	274.17	10	16.4	6.64	366	5.43	231.0	237
MW1		9/13/17	11.70	262.47	274.17	7	17.4	6.72	297	3.87	168.3	193
MW1		12/5/17	10.00	264.17	274.17	8	17.3	6.79	271	2.41	185.0	176
MW1		3/9/18	9.65	264.52	274.17	9	16.8	6.87	340	3.8	140	170
MW1		6/15/18	10.09	264.08	274.17	9	18.0	6.81	337	3.7	135	168
MW1		9/17/18	12.97	261.20	274.17	7	19.5	6.78	328	7.9	146	164
MW1		12/17/18	12.02	262.15	274.17	7.5	19.5	6.83	295	2.7	160	145
MW1		3/18/19	8.63	265.54	274.17	9	18.1	6.81	270	5.0	198	192
MW1		5/13/19	10.01	264.16	274.17	8.5	17.6	7.64	285	4.5	175	202
MW1		9/16/19	12.18	261.99	274.17	7.5	19.2	6.76	260	4.5	28	181
MW1		12/16/19	9.64	264.53	274.17	8.5	16.8	6.88	258	3.82	269	183
MW1		3/16/20	9.40	264.77	274.17	9	15.9	6.98	261	4.87	227	185
MW1		6/16/20	10.69	263.48	274.17	8	18.1	6.92	246	5.24	213	175
MW1		9/14/20	14.20	259.97	274.17	7	19.3	6.86	243	3.17	143	174
MW1		12/15/20	12.58	261.59	274.17	7	18.0	7.01	292	3.94	196	207
MW1		3/17/21	10.23	263.94	274.17	8.5	16.2	7.03	301	8.04	213	213
MW1		6/22/21	12.33	261.84	274.17	7.5	18.4	6.92	255	6.78	119	181
MW1		9/21/21	16.65	257.52	274.17	5.5	19.7	6.71	272	4.72	161	194
MW1		12/14/21	11.02	263.15	274.17	8.0	16.6	7.00	172	6.68	171	122
MW1		3/16/22	10.67	263.50	274.17	8.0	17.3	6.74	217	9.65	122	154
MW1		6/15/22	10.67	263.50	274.17	8.5	17.3	6.40	237	6.95	137	168
MW1A	274.09	8/30/07	13.46	260.63	274.09	260.63						
MW1A		9/24/07	13.82	260.27	274.09	260.27						
MW1A		10/31/07	12.98	261.11	274.09	261.11						
MW1A		11/29/07	11.33	262.76	274.09	262.76						
MW1A		12/27/07	10.63	263.46	274.09	22	18.2	6.83	770 Q	0.5	175	
MW1A		2/2/08	9.82	264.27	274.09							
MW1A		3/2/08	10.41	263.68	274.09							
MW1A		7/7/08	12.33	261.76	274.09	14	18.67	6.51	488	4.14	192	
MW1A		10/10/08	14.27	259.82	274.09	18	17.97	6.59	427	3.24	43	
MW1A		11/5/08	14.23	259.86	274.09							
MW1A		12/29/08	12.41	261.68	274.09	14	18.70	6.64	445	2.96	168	
MW1A		3/11/09	10.24	263.85	274.09	15	17.71	6.77	408	2.51	114.5	265
MW1A		6/16/09	11.28	262.81	274.09	16	18.33	6.67	350	4.06	-26.7	227
MW1A		9/22/09	14.42	259.67	274.09	14	18.13	6.81	448	2.69	89.8	291
MW1A		12/15/09	12.72	261.37	274.09	19	17.96	7.29	465	2.63	99.8	304
MW1A		3/22/10	10.34	263.75	274.09	16	18.36	6.85	407	3.49	140.0	265
MW1A		6/22/10	11.48	262.61	274.09	15	17.59	6.68	411	5.28	194.0	268
MW1A		9/22/10	13.05	261.04	274.09	14	17.52	6.71	387	3.01	287.0	252
MW1A		12/13/10	10.87	263.22	274.09	15	17.38	6.94	401	2.13	53.2	261
MW1A		3/29/11	8.11	265.98	274.09	17	17.00	6.75	368	4.45	-147.8	239
MW1A		6/22/11	10.23	263.86	274.09	16	17.55	6.05	376	1.65	85.2	244
MW1A		9/13/11	11.97	262.12	274.09	15	17.36	6.59	297	2.17	142.1	193
MW1A		12/14/11	10.96	263.13	274.09	15	17.28	6.54	317	2.87	-27.8	206
MW1A		3/21/12	9.38	264.71	274.09	16	17.13	6.57	293	2.98	60.9	190
MW1A		6/26/12	11.20	262.89	274.09	15	17.12	6.42	336	2.01	133.7	218
MW1A		9/27/12	13.27	260.82	274.09	14	16.89	6.41	362	1.82	75.8	236

Table 1
Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

			Field Measurements									
Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/Reduction Potential	Field TDS
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
MW1A	continued 274.09	12/19/12	11.14	262.95	274.09	15	17.31	6.96	392	1.25	-60.1	255
MW1A		3/11/13	10.99	263.10	274.09	15	17.14	6.67	318	2.37	62.6	207
MW1A		6/27/13	12.59	261.50	274.09	14	17.10	6.79	303	4.31	103.3	197
MW1A		9/12/13	15.19	258.90	274.09	14	17.39	6.76	309	4.00	139.3	201
MW1A		12/12/13	15.40	258.69	274.09	13	16.97	6.90	318	2.11	58.4	204
MW1A		3/4/14	10.15	263.94	274.09	16	17.23	6.83	359	4.28	139.7	233
MW1A		6/17/14	12.98	261.11	274.09	15	17.49	6.65	408	3.19	82.4	266
MW1A		9/18/14	16.84	257.25	274.09	12	17.55	6.79	342	3.05	26.5	222
MW1A		12/18/14	11.64	262.45	274.09	15	19.01	6.63	488	3.63	63.6	317
MW1A		3/24/15	11.75	262.34	274.09	16	18.03	6.67	450	2.82	61.7	293
MW1A		6/11/15	11.31	262.78	274.09	20	18.16	6.41	457	2.06	130.4	297
MW1A		9/17/15	16.46	257.63	274.09	13	18.12	6.70	452	0.58	132.3	294
MW1A		12/16/15	11.75	262.34	274.09	15	19.48	6.62	481	3.69	47.9	313
MW1A		3/29/16	8.73	265.36	274.09	17	16.69	6.66	440	1.15	138.3	286
MW1A		6/21/16	11.18	262.91	274.09	15	15.70	6.27	433	1.21	147.9	284
MW1A		9/8/16	14.85	259.24	274.09	14	16.36	6.77	475	0.47	174.9	308
MW1A		12/8/16	11.41	262.68	274.09	15	18.1	6.59	495	2.23	95.2	322
MW1A		3/9/17	8.35	265.74	274.09	17	17.5	6.66	456	2.32	177.8	295
MW1A		6/14/17	10.54	263.55	274.09	17	17.6	6.66	439	0.48	190.5	283
MW1A		9/13/17	12.43	261.66	274.09	14	17.8	6.71	442	2.49	136.7	287
MW1A		12/5/17	10.33	263.76	274.09	16	18.9	6.67	480	2.03	185.9	312
MW1A		3/9/18	10.04	264.05	274.09	16	17.9	6.77	578	3.40	154	287
MW1A		6/15/18	10.21	263.88	274.09	16	18.2	6.64	530	3.20	137	265
MW1A		9/17/18	12.94	261.15	274.09	15	19.2	6.79	577	7.30	129	287
MW1A		9/17/18	12.94	261.15	274.09	15	19.2	6.79	577	7.30	129	287
MW1A		12/17/18	12.51	261.58	274.09	15	18.6	6.79	505	1.10	150	250
MW1A		3/18/19	9.19	264.90	274.09	16.5	18.7	6.77	310	1.0	175	219
MW1A		5/13/19	10.57	263.52	274.09	16	18.7	8.02	347	3.3	164	246
MW1A		9/16/19	12.53	261.56	274.09	10	21.1	6.65	425	5.2	74	300
MW1A		12/16/19	9.63	264.46	274.09	16.5	19.3	6.74	475	1.40	225	336
MW1A		3/16/20	9.60	264.49	274.09	16.5	17.0	6.84	474	2.40	203	337
MW1A		6/16/20	11.43	262.66	274.09	15.5	20.6	6.84	374	1.91	201	263
MW1A	9/14/20	14.69	259.40	274.09	14.0	19.9	6.80	400	1.81	166	282	
MW1A	12/15/20	12.50	261.59	274.09	15.0	18.9	6.85	480	7.30	181	341	
MW1A	3/17/21	10.64	263.45	274.09	16.0	17.4	6.92	482	4.13	183	339	
MW1A	6/22/21	13.02	261.07	274.09	16.5	20.6	6.76	457	2.66	109	324	
MW1A	9/21/21	16.91	257.18	274.09	13.0	20.8	6.67	409	1.31	199	290	
MW1A	12/14/21	11.37	262.72	274.09	15.5	16.9	6.87	209	3.06	194	150	
MW1A	3/15/22	11.38	262.71	274.09	15.5	18.6	6.70	213	5.97	128	151	
MW1A	6/15/22	11.08	263.01	274.09	15.5	18.5	6.39	290	3.95	122	205	
WWTP Wells												
MW2	272.37	7/16/02	14.35	258.02	272.37							
MW2		9/18/02	14.71	257.66	272.37							
MW2		10/29/02	15.00	257.37	272.37							
MW2		11/22/02	13.18	259.19	272.37							
MW2		12/31/02	12.82	259.55	272.37							
MW2		1/21/03	14.72	257.65	272.37							
MW2		6/30/03	13.70	258.67	272.37							
MW2		7/31/03	14.33	258.04	272.37							
MW2		8/31/03	14.56	257.81	272.37							
MW2		9/30/03	14.71	257.66	272.37							
MW2		10/31/03	14.92	257.45	272.37							
MW2		11/30/03	13.60	258.77	272.37							
MW2	12/31/03	13.18	259.19	272.37								

Table 1
Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

			Field Measurements									
	MP		Depth	Groundwater	Top of	Volume		Field	Field	Dissolved	Oxidation/	
Sample ID	Elevation	Date	to	Elevation	Casing	Purged,	Temp.	pH	EC	Oxygen	Reduction/	Field
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
MW2	continued 269.37	1/31/04	13.50	258.87	272.37							
MW2		2/20/04	13.11	259.26	272.37							
MW2		3/31/04	13.47	258.90	272.37							
MW2		5/2/04	13.64	258.73	272.37							
MW2		6/1/04	13.79	258.58	272.37							
MW2		6/30/04	14.19	258.18	272.37							
MW2		7/31/04	14.54	257.83	272.37							
MW2		9/4/04	15.03	257.34	272.37							
MW2		10/1/04	15.37	257.00	272.37							
MW2		10/12/04		0.00								
MW2		1/4/05	12.57	259.80	272.37							
MW2		4/1/05	12.20	260.17	272.37							
MW2		6/30/05	13.43	258.94	272.37							
MW2		10/6/05	13.45	258.92	272.37							
MW2		10/14/05		0.00		5	19.2	6.20	500	0.2	119	
MW2		1/17/06	12.97	259.40	272.37							
MW2		2/10/06	13.36	259.01	272.37	7	19.5	6.90	390	0.3	-178	
MW2		3/10/06	12.14	260.23	272.37							
MW2		4/29/06	12.88	259.49	272.37							
MW2		5/23/06	13.43	258.94	272.37	18	17.7	7.00	360	7.2	-23	
MW2		6/30/06	14.05	258.32	272.37							
MW2		7/25/06	13.98	258.39	272.37							
MW2		8/24/06	15.30	257.07	272.37	8	19.0	6.60	360	5.6	80	
MW2		9/29/06	14.07	258.30	272.37							
MW2		10/24/06	13.98	258.39	272.37							
MW2		11/30/06	14.06	258.31	272.37							
MW2		12/29/06	13.88	258.49	272.37							
MW2		1/31/07	14.35	258.02	272.37							
MW2		2/27/07	12.62	259.75	272.37							
MW2		3/13/07		0.00		13	19.1	6.70	240	4.9	-108	
MW2		3/30/07	14.05	258.32	272.37							
MW2		4/30/07	14.12	258.25	272.37							
MW2		5/31/07	14.36	258.01	272.37							
MW2		6/25/07	14.52	257.85	272.37	15	18.4	6.95	420	6.3	-46	
MW2		7/29/07	14.59	257.78	272.37							
MW2		8/30/07	14.86	257.51	272.37							
MW2		9/27/07	14.89	257.48	272.37	14	18.9	6.59	540	5.5	-87	
MW2		10/31/07	14.11	258.26	272.37							
MW2		11/29/07	13.59	258.78	272.37							
MW2		12/26/07	13.48	258.89	272.37	9	19.0	7.40	900 Q	3.2	-79	
MW2		2/2/08	13.12	259.25	272.37							
MW2		3/2/08	13.71	258.66	272.37							
MW2		7/7/08	13.81	258.56	272.37	6	18.32	6.69	531	3.63	-38.2	
MW2		10/10/08	14.20	258.17	272.37	7.5	17.81	6.66	448	2.2	-76.8	
MW2		11/5/08	13.95	258.42	272.37							
MW2		12/30/08	14.08	258.29	272.37	6	17.71	6.98	472	1.41	-37.5	
MW2		3/12/09	13.81	258.56	272.37	6	17.64	7.09	461	2.19	-42.8	300
MW2		6/16/09	14.24	258.13	272.37	6	18.01	6.93	444	1.61	-47.1	288
MW2	9/22/09	14.35	258.02	272.37	6	17.96	6.94	441	1.89	-47.6	286	
MW2	12/15/09	14.08	258.29	272.37	6	18.35	6.99	464	3.82	-51.3	302	
MW2	3/22/10	13.94	258.43	272.37	6.00	18.98	7.11	479	2.09	-64.2	311	
MW2	6/22/10	14.23	258.14	272.37	6.00	18.33	6.77	478	3.18	-10.6	310	
MW2	9/22/10	14.68	257.69	272.37	6	18.25	6.96	468	1.72	-57.6	304	
MW2	12/13/10	14.01	258.36	272.37	6	18.21	7.22	481	1.22	-64.1	313	

Table 1
Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Field Measurements									
			Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
MW2	continued 272.38	3/29/11	11.40	260.97	272.37	7.5	18.62	6.67	469	1.08	-155.1	303
MW2		6/23/11	14.53	257.84	272.37	6	17.82	6.91	488	1.25	-178.1	317
MW2		9/14/11	14.48	257.89	272.37	6	18.57	7.01	418	1.23	54.4	310
MW2		12/14/11	14.09	258.28	272.37	6	18.69	6.55	469	1.27	-83.9	305
MW2		3/21/12	13.19	259.18	272.37	6	18.00	6.72	439	1.35	-76.8	285
MW2		6/26/12	14.64	257.73	272.37	6	17.75	6.86	470	2.88	-59.7	305
MW2		9/27/12	14.79	257.58	272.37	6	18.43	6.06	462	1.16	2.3	301
MW2		12/19/12	14.10	258.27	272.37	6	18.62	7.23	479	2.04	-90.1	311
MW2		3/11/13	14.31	258.06	272.37	6	18.37	6.65	525	2.63	-4.8	341
MW2		6/26/13	15.03	257.34	272.37	6	18.01	6.46	535	1.18	190.3	347
MW2		9/11/13	15.59	256.78	272.37	5	18.95	6.57	548	2.00	-52.1	356
MW2		12/11/13	15.50	256.87	272.37	5	18.20	6.79	543	0.80	-49.6	353
MW2		3/5/14	13.55	258.82	272.37	7	18.66	7.58	540	1.16	-43.1	351
MW2		4/9/14	13.88	258.49	272.37	8	18.16	7.05	514	1.67	-16.7	334
MW2		5/5/14	14.02	258.35	272.37	6	18.23	7.38	496	1.25	-27.6	323
MW2		6/17/14	14.68	257.69	272.37	4	18.13	6.91	509	1.20	-73	331
MW2		7/16/14	14.81	257.56	272.37	6	18.37	7.13	492	1.90	-79.5	320
MW2		8/20/14	15.68	256.69	272.37	5	18.82	6.33	493	1.40	94.1	321
MW2		9/18/14	16.10	256.27	272.37	5	19.11	7.08	467	1.12	-39.5	303
MW2		10/30/14	14.91	257.46	272.37	6	19.06	7.01	469	0.97	-59.5	305
MW2		11/21/14	13.92	258.45	272.37	6	19.13	7.14	506	1.00	-17.7	329
MW2		12/18/14	13.34	259.03	272.37	7	19.34	7.42	499	0.76	-23.9	324
MW2		3/24/15	13.70	258.67	272.37	7	18.01	7.04	466	0.14	-31.5	303
MW2		6/11/15	13.34	259.03	272.37	8	18.04	6.65	451	0.12	8.6	293
MW2		9/17/15	15.68	256.69	272.37	5	19.35	7.06	453	0.62	-75.4	294
MW2		12/15/15	12.99	259.38	272.37	7	19.52	6.96	463	1.08	17.6	301
MW2		3/29/16	13.11	259.26	272.37	7	18.92	6.97	460	0.10	-79.0	299
MW2		6/20/16	13.61	258.76	272.37	7	18.88	6.61	442	0.47	-84.2	287
MW2		9/7/16	14.67	257.70	272.37	6	19.26	6.68	457	0.39	18.7	297
MW2		12/8/16	13.53	258.84	272.37	7	19.4	6.93	474	0.35	-74.3	308
MW2		3/10/17	12.75	259.62	272.37	3	18.9	6.95	487	0.16	-40.7	317
MW2		6/13/17	7.15	265.22	272.37	6	18.6	6.94	419	0.63	-44.3	270
MW2		9/13/17	14.58	257.79	272.37	6	19.8	6.99	447	1.47	-43.9	290
MW2		12/6/17	13.73	258.64	272.37	6	19.5	7.02	430	0.73	-71.6	279
MW2		3/9/18	13.57	258.80	272.37	6	18.5	7.05	529	1.3	-51	266
MW2		6/15/18	13.96	258.41	272.37	6	19.2	6.56	546	1.5	-34	273
MW2		9/17/18	14.77	257.60	272.37	6	19.4	7.03	574	7.3	-39	287
MW2		12/17/18	14.62	257.75	272.37	6	18.8	6.98	525	1.9	-63	262
MW2		3/18/19	14.02	258.35	272.37	6	18.9	7.01	425	3.1	-10	305
MW2		5/13/19	14.43	257.94	272.37	6	19.1	7.01	550	2.8	-15	390
MW2		9/16/19	15.14	257.23	272.37	6	18.5	6.93	540	3.0	-45	385
MW2		12/16/19	13.62	258.75	272.37	6.5	19.3	6.91	451	1.59	-20	334
MW2		3/16/20	13.00	259.37	272.37	6.5	15.6	6.87	546	1.83	36	384
MW2		6/16/20	14.87	257.50	272.37	5.5	19.2	7.02	506	1.46	-28	360
MW2		9/14/20	16.04	256.33	272.37	5.0	21.4	7.01	496	1.16	-37	351
MW2		12/15/20	14.49	257.88	272.37	6.0	17.8	7.10	502	1.08	3	356
MW2		3/17/21	14.00	258.37	272.37	6.0	18.3	7.19	485	1.88	30	345
MW2		6/22/21	14.88	257.49	272.37	5.5	19.3	7.01	466	1.67	10	331
MW2	9/21/21	17.29	255.08	272.37	4.5	21.1	6.66	527	0.83	86	374	
MW2	12/14/21	12.81	259.56	272.37	7.0	14.6	6.98	224	2.45	147	158	
MW2	3/15/22	13.75	258.62	272.37	6.5	14.0	6.75	251	3.43	87	179	
MW2	6/15/22	14.09	258.28	272.37	6.0	19.3	6.61	428	1.22	-37	299	

Table 1
Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Field Measurements									
			Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
MW2A	276.26	9/12/13	19.14	257.12	276.26	4.5	18.68	6.88	544	1.19	-133.6	354
MW2A		12/11/13	18.85	257.41	276.26	4.5	18.79	6.93	544	1.89	-93.9	354
MW2A		3/5/14	15.91	260.35	276.26	6	14.58	8.52	545	1.32	-123	354
MW2A		4/9/14	16.18	260.08	276.26	10	15.53	7.34	521	1.90	-68.9	339
MW2A		5/5/14	16.44	259.82	276.26	6	16.01	8.36	513	1.13	-114.2	333
MW2A		6/17/14	17.69	258.57	276.26	6	16.84	6.89	562	1.05	-129.0	366
MW2A		7/16/14	17.78	258.48	276.26	5.25	18.00	6.31	533	1.96	-70.9	346
MW2A		8/20/14	18.93	257.33	276.26	4.5	20.86	7.11	443	1.29	-34.0	288
MW2A		9/18/14	19.41	256.85	276.26	4.5	22.32	7.23	422	1.20	-139.4	275
MW2A		10/30/14	17.44	258.82	276.26	5.25	21.87	7.29	435	0.86	-128.7	283
MW2A		11/21/14	16.54	259.72	276.26	8	20.52	7.97	520	0.86	-91.0	338
MW2A		12/18/14	15.98	260.28	276.26	6	20.00	6.99	491	0.73	-120.9	319
MW2A		3/24/15	16.50	259.76	276.26	6.5	16.48	7.23	442	0.09	-125.7	287
MW2A		6/11/15	16.01	260.25	276.26	8	17.54	6.65	479	0.09	-70.7	311
MW2A		9/17/15	19.18	257.08	276.26	4.5	21.87	7.17	487	0.40	-146.6	317
MW2A		12/16/15	15.72	260.54	276.26	6	19.48	7.02	532	1.14	3.5	346
MW2A		3/29/16	14.89	261.37	276.26	6.75	14.30	7.21	442	0.25	-131.8	287
MW2A		6/21/16	16.19	260.07	276.26	6	18.12	6.67	541	0.68	-152.4	352
MW2A		9/8/16	17.73	258.53	276.26	5.25	21.40	7.09	526	0.38	-87.6	342
MW2A		12/8/16	16.18	260.08	276.26	8	20.2	6.96	540	0.31	-158.2	351
MW2A		3/9/17	14.43	261.83	276.26	7.5	16.1	7.14	395	0.10	-123.6	256
MW2A		6/13/17	16.44	259.82	276.26	8	16.4	7.03	404	0.45	-107.6	263
MW2A		9/13/17	17.05	259.21	276.26	6	20.4	6.99	474	1.60	-104.1	308
MW2A		12/5/17	15.87	260.39	276.26	6	18.9	7.10	448	0.25	-129.9	291
MW2A		3/9/18	15.61	260.65	276.26	6	15.7	7.14	578	1.5	-98	289
MW2A		6/15/18	15.79	260.47	276.26	6	18.4	6.88	633	1.5	-112	317
MW2A		9/17/18	17.38	258.88	276.26	5.5	22.0	7.00	693	6.7	-103	347
MW2A		12/17/18	17.75	258.51	276.26	5.5	22.0	7.05	672	1.1	-113	335
MW2A		3/18/19	15.93	260.33	276.26	5	19.8	6.92	513	0.4	-107	365
MW2A		5/13/19	16.85	259.41	276.26	4.5	20.0	7.13	543	1.0	-48	385
MW2A		9/16/19	17.56	258.70	276.26	5.5	21.2	6.81	547	2.6	0	388
MW2A		12/16/19	15.75	260.51	276.26	6.0	19.0	6.91	485	1.17	-83	344
MW2A		3/16/20	16.14	260.12	276.26	6.0	15.5	7.17	380	0.90	-78	269
MW2A		6/16/20	17.42	258.84	276.26	5.5	17.3	7.19	394	1.27	-105	282
MW2A		9/14/20	19.10	257.16	276.26	4.5	20.5	7.10	425	0.75	-130	300
MW2A		12/15/20	17.25	259.01	276.26	5.5	17.9	7.15	552	1.27	-93	391
MW2A		3/17/21	16.48	259.78	276.26	6.0	16.4	7.23	391	2.07	-69	279
MW2A		6/22/21	17.83	258.43	276.26	5.0	18.3	7.07	471	1.08	-88	335
MW2A		9/21/21	20.60	255.66	276.26	4.0	21.2	6.80	512	1.17	-68	365
MW2A		12/14/21	16.93	259.33	276.26	5.5	18.1	7.05	311	1.20	-21	220
MW2A		3/15/22	17.00	259.26	276.26	5.5	18.1	6.86	335	1.72	-51	237
MW2A		6/15/22	16.85	259.41	276.26	5.5	18.7	6.55	426	1.15	-70	301
MW3		269.85	7/16/02	15.28	254.57	269.85						
MW3	9/18/02		16.11	253.74	269.85							
MW3	10/29/02		16.51	253.34	269.85							
MW3	11/22/02		14.22	255.63	269.85							
MW3	12/31/02		13.31	256.54	269.85							
MW3	1/21/03		16.12	253.73	269.85							
MW3	6/30/03		14.47	255.38	269.85							
MW3		7/31/03	15.41	254.44	269.85							

Table 1
Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

			Field Measurements									
Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
MW3	continued 269.85	8/31/03	15.83	254.02	269.85							
MW3		9/30/03	15.93	253.92	269.85							
MW3		10/31/03	16.20	253.65	269.85							
MW3		11/30/03	14.37	255.48	269.85							
MW3		12/31/03	13.55	256.30	269.85							
MW3		1/31/04	13.58	256.27	269.85							
MW3		2/20/04	13.31	256.54	269.85							
MW3		3/31/04	13.67	256.18	269.85							
MW3		5/2/04	14.29	255.56	269.85							
MW3		6/1/04	14.68	255.17	269.85							
MW3		6/30/04	15.31	254.54	269.85							
MW3		7/31/04	15.78	254.07	269.85							
MW3		9/4/04	15.77	254.08	269.85							
MW3		10/1/04	15.98	253.87	269.85							
MW3		1/4/05	13.03	256.82	269.85							
MW3		4/1/05	11.22	258.63	269.85			6.90				
MW3		6/30/05	13.72	256.13	269.85			6.90				
MW3		10/6/05	15.03	254.82	269.85							
MW3		10/14/05		0.00	269.85	5	18.2	6.90	420	5.4	-33	
MW3		1/17/06	11.93	257.92	269.85							
MW3		2/13/06	12.76	257.09	269.85	14	18.6	6.90	560	1.2	-74	
MW3		3/10/06	11.62	258.23	269.85							
MW3		4/29/06	11.41	258.44	269.85							
MW3		5/23/06	13.34	256.51	269.85	9	17.7	7.00	550	7.4	109	
MW3		6/30/06	14.02	255.83	269.85							
MW3		7/25/06	15.26	254.59	269.85							
MW3		8/25/06	15.42	254.43	269.85	14	17.8	7.00	840 Q	4.7	103	
MW3		9/29/06	15.02	254.83	269.85							
MW3		10/24/06	13.89	255.96	269.85							
MW3		11/30/06	13.66	256.19	269.85							
MW3		12/12/06		0.00								
MW3		12/29/06	13.49	256.36	269.85							
MW3		1/31/07	13.89	255.96	269.85							
MW3		2/27/07	13.34	256.51	269.85							
MW3		3/13/07		0.00		13	19.0	7.00	100 Q	5.0	-9	
MW3		3/30/07	13.99	255.86	269.85							
MW3		4/30/07	14.46	255.39	269.85							
MW3		5/31/07	15.28	254.57	269.85							
MW3		6/25/07	15.82	254.03	269.85	14	17.8	7.00	560	6.7	231	
MW3		7/29/07	15.48	254.37	269.85							
MW3		8/30/07	16.33	253.52	269.85							
MW3		9/27/07	16.52	253.33	269.85	15	18.2	6.51	660	5.8	-7	
MW3		10/31/07	15.47	254.38	269.85							
MW3		12/31/07	13.79	256.06	269.85	10	18.7	7.06	590	2.4	33	
MW3		2/2/08	13.16	256.69	269.85							
MW3		3/2/08	13.59	256.26	269.85							
MW3		7/7/08	16.41	253.44	269.85	5	18.33	6.69	609	3.84	49.6	
MW3		10/10/08	16.32	253.53	269.85	10	17.0	6.66	491	3.26	1.2	
MW3		11/5/08	16.16	253.69	269.85							
MW3		12/30/08	15.24	254.61	269.85	5	17.98	6.89	530	1.98	27.7	
MW3		3/12/09	13.35	256.50	269.85	6	18.49	6.95	564	1.55	-6.8	367
MW3		6/16/09	14.91	254.94	269.85	6	18.91	7.04	544	1.20	-47.4	354
MW3		9/22/09	16.31	253.54	269.85	5	18.13	6.92	494	2.62	-21.0	321
MW3		12/15/09	15.29	254.56	269.85	5	18.21	7.10	541	1.51	10.8	352

Table 1
Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Field Measurements									
			Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
MW3	continued 269.85	3/22/10	13.63	256.22	269.85	7	18.64	6.99	596	2.91	51.5	388
MW3		6/22/10	14.82	255.03	269.85	6	18.43	6.81	612	4.54	74.0	397
MW3		9/22/10	15.78	254.07	269.85	5	17.89	6.87	514	1.68	20.1	334
MW3		12/14/10	14.25	255.60	269.85	6	18.22	7.15	534	1.87	-19.2	348
MW3		3/29/11	11.05	258.80	269.85	8	18.51	6.62	571	1.21	-174.4	371
MW3		6/23/11	14.45	255.40	269.85	6	17.78	6.83	553	1.29	-44.0	360
MW3		9/14/11	15.85	254.00	269.85	5	17.90	6.85	517	1.13	-209.8	336
MW3		12/14/11	14.94	254.91	269.85	6	18.02	6.45	524	1.82	-48.6	341
MW3		3/21/12	13.75	256.10	269.85	6	18.17	6.54	503	1.34	54.5	327
MW3		6/26/12	15.73	254.12	269.85	5	17.37	6.55	511	1.56	70.4	332
MW3		9/26/12	16.59	253.26	269.85	5	17.84	6.29	517	2.42	40.0	336
MW3		12/18/12	14.76	255.09	269.85	6	17.55	6.94	530	1.46	23.9	345
MW3		3/11/13	14.87	254.98	269.85	6	17.96	6.42	575	2.92	-16.7	374
MW3		6/26/13	16.71	253.14	269.85	5	17.80	6.53	556	0.92	129	365
MW3		9/11/13	18.00	251.85	269.85	5	18.11	6.23	571	2.03	83.0	372
MW3		12/12/13	17.60	252.25	269.85	5	17.66	6.77	560	1.20	-3.9	364
MW3		3/4/14	14.97	254.88	269.85	6	17.95	6.88	585	1.11	110.2	382
MW3		4/9/14	14.91	254.94	269.85	6	17.82	7.63	577	1.69	193.5	375
MW3		5/5/14	15.57	254.28	269.85	5	17.77	7.46	582	0.87	102.4	378
MW3		6/17/14	16.83	253.02	269.85	5	17.34	6.83	581	1.21	-16.9	380
MW3		7/16/14	17.42	252.43	269.85	8	17.77	6.22	590	2.13	26.7	383
MW3		8/20/14	18.32	251.53	269.85	5	18.06	7.10	563	1.90	114.8	368
MW3		9/18/14	18.89	250.96	269.85	6	17.63	6.65	528	1.89	94.3	343
MW3		10/30/14	18.46	251.39	269.85	5	17.67	6.95	536	1.23	-30.7	348
MW3		11/21/14	17.32	252.53	269.85	4.5	17.95	6.89	578	1.93	99.4	376
MW3		12/18/14	16.28	253.57	269.85	5.3	18.00	7.65	564	1.01	93.8	366
MW3		3/24/15	15.43	254.42	269.85	6.5	18.10	6.89	624	0.10	42.4	406
MW3		6/11/15	16.04	253.81	269.85	6	17.98	6.57	610	0.16	99.7	397
MW3		9/17/15	18.54	251.31	269.85	4	18.07	6.95	574	2.71	10.3	373
MW3		12/16/15	16.24	253.61	269.85	9	18.24	6.94	561	1.10	50.2	365
MW3		3/29/16	13.78	256.07	269.85	6	18.23	6.69	641	0.13	48.7	426
MW3		6/20/16	15.85	254.00	269.85	5	17.95	6.29	593	0.69	42.9	386
MW3		9/8/16	17.34	252.51	269.85	6	17.72	6.74	556	0.54	131.8	362
MW3		12/8/16	15.55	254.30	269.85	5	17.9	6.82	566	0.40	-35.4	369
MW3		3/10/17	11.58	258.27	269.85	8	17.9	6.66	638	0.16	96.2	416
MW3		6/14/17	14.95	254.90	269.85	8	17.6	6.71	597	0.65	90.8	390
MW3		9/13/17	16.52	253.33	269.85	5	18.1	6.76	551	1.21	55.4	358
MW3		12/6/17	15.44	254.41	269.85	5	18.2	6.84	537	0.88	76.9	350
MW3		3/9/18	15.07	254.78	269.85	7.5	18.1	6.91	647	1.4	67	324
MW3		6/14/18	16.15	253.70	269.85	7.0	17.1	6.88	623	1.4	90	310
MW3		9/17/18	17.45	252.40	269.85	6.5	17.6	6.95	621	5.9	87	311
MW3		12/17/18	16.65	253.20	269.85	7.0	17.6	6.83	630	1.7	100	310
MW3		3/18/19	13.26	256.59	269.85	8.5	18.6	6.77	549	2.4	122	389
MW3		5/13/19	15.13	254.72	269.85	7.5	18.1	6.90	568	1.4	112	403
MW3		9/16/19	17.52	252.33	269.85	6.5	17.9	6.91	567	3.0	44	404
MW3		12/16/19	15.48	254.37	269.85	7.5	18.1	6.82	550	2.06	142	389
MW3		3/16/20	15.85	254.00	269.85	7	17.2	6.96	576	2.45	106	409
MW3		6/16/20	16.36	253.49	269.85	7	18.6	6.99	522	2.44	71	371
MW3		9/14/20	18.54	251.31	269.85	6	18.9	7.05	483	2.10	215	342
MW3		12/15/20	17.15	252.70	269.85	6.5	18.2	7.10	502	2.30	85	402
MW3		3/17/21	15.83	254.02	269.85	7.0	18.6	7.12	484	2.48	175	344
MW3		6/22/21	17.56	252.29	269.85	6.5	18.2	7.00	469	2.25	181	333
MW3		9/21/21	20.20	249.65	269.85	5.0	18.5	6.80	502	2.92	210	356
MW3		12/14/21	16.20	253.65	269.85	6.5	17.5	7.05	316	2.35	258	227
MW3		3/15/22	15.85	254.00	269.85	7.0	18.1	6.86	368	2.46	91	261
MW3		6/15/22	16.90	252.95	269.85	6.5	18.3	6.64	449	2.46	221	318

Table 1
Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Field Measurements									
			Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
MW3A	278.27	8/30/07	22.05	256.22	278.27							
MW3A		9/24/07	22.06	256.21	278.27							
MW3A		10/31/07	21.52	256.75	278.27							
MW3A		11/29/07	20.72	257.55	278.27							
MW3A		12/26/07	20.74	257.53	278.27	14	19.0	7.30	860 Q	2.8	-105	
MW3A		2/2/08	20.37	257.90	278.27							
MW3A		3/2/08	20.99	257.28	278.27							
MW3A		7/7/08	21.08	257.19	278.27	6	17.87	6.99	568	4.56	-59.1	
MW3A		10/10/08	21.52	256.75	278.27	6	18.05	6.63	503	3.02	-106.3	
MW3A		11/5/08	21.16	257.11	278.27							
MW3A		12/30/08	21.21	257.06	278.27	5	18.11	7.01	519	0.90	-68.6	
MW3A		3/12/09	20.96	257.31	278.27	6	17.72	7.87	509	1.83	-64.3	331
MW3A		6/16/09	21.68	256.59	278.27	5	18.33	7.05	497	1.50	-66.1	324
MW3A		9/22/09	21.69	256.58	278.27	5	18.03	6.93	501	1.49	-61.9	326
MW3A		12/15/09	21.11	257.16	278.27	5	18.31	7.25	545	1.52	-63.1	354
MW3A		3/22/10	21.95	256.32	278.27	5	17.96	7.36	542	2.76	-93.3	353
MW3A		6/22/10	21.41	256.86	278.27	5	17.95	6.82	520	3.00	-27.3	337
MW3A		9/22/10	21.80	256.47	278.27	5	18.57	6.99	507	1.32	-92.0	329
MW3A		12/14/10	21.08	257.19	278.27	5	18.36	7.32	527	1.15	-82.5	343
MW3A		3/29/11	18.76	259.51	278.27	7	16.95	6.93	577	1.51	-138.7	363
MW3A		6/23/11	21.55	256.72	278.27	5	17.23	6.75	534	1.57	-78.2	347
MW3A		9/14/11	21.96	256.31	278.27	5	18.54	6.81	495	1.18	-206.3	322
MW3A		12/14/11	21.57	256.70	278.27	5	18.65	6.62	496	1.49	-107.3	322
MW3A		3/21/12	20.62	257.65	278.27	6	17.14	6.51	489	1.46	-78.7	318
MW3A		6/26/12	22.10	256.17	278.27	5	16.78	6.51	505	1.62	-64.9	328
MW3A		9/26/12	22.22	256.05	278.27	5	17.56	6.68	518	2.71	-43.3	336
MW3A		12/18/12	21.55	256.72	278.27	6	17.52	7.01	531	1.03	-107.4	345
MW3A		3/11/13	21.79	256.48	278.27	6	17.29	6.92	584	2.10	-44.6	380
MW3A		6/27/13	22.39	255.88	278.27	5	17.51	6.77	591	1.56	100.7	385
MW3A		9/12/13	22.79	255.48	278.27	5	17.69	6.21	614	1.10	-66.4	398
MW3A		12/11/13	22.64	255.63	278.27	5	18.23	6.77	645	0.87	-80.3	416
MW3A		3/5/14	20.88	257.39	278.27	6	17.72	7.98	592	1.21	-82.7	385
MW3A		4/9/14	21.45	256.82	278.27	6	17.15	7.75	567	1.98	-83.3	368
MW3A		5/5/14	21.68	256.59	278.27	5	17.33	8.96	547	0.97	-66.8	356
MW3A		6/17/14	22.12	256.15	278.27	7	16.81	6.94	570	1.14	-113.0	370
MW3A		7/16/14	22.29	255.98	278.27	5	17.38	6.95	556	1.93	-77.4	362
MW3A		8/20/14	23.06	255.21	278.27	5	18.00	7.04	565	1.88	-25.8	367
MW3A		9/18/14	23.62	254.65	278.27	5	18.44	6.97	520	1.09	-73.1	338
MW3A		10/30/14	22.73	255.54	278.27	5	18.16	7.26	544	1.22	-99.8	354
MW3A		11/21/14	21.56	256.71	278.27	5	18.29	7.72	581	1.18	-47.8	378
MW3A		12/18/14	20.72	257.55	278.27	6	18.50	6.85	586	0.70	-73.5	381
MW3A		3/24/15	21.33	256.94	278.27	7	17.21	7.07	547	0.14	-81.2	356
MW3A		6/11/15	21.06	257.21	278.27	8	17.57	6.80	522	0.12	-42.2	340
MW3A		9/17/15	23.04	255.23	278.27	5	18.28	7.08	535	0.96	-90.3	348
MW3A		12/16/15	20.69	257.58	278.27	6	18.63	6.90	478	2.84	10.9	309
MW3A		3/29/16	20.94	257.33	278.27	6	17.45	7.07	529	0.14	-104.3	344
MW3A		6/21/16	21.51	256.76	278.27	7	17.41	6.47	490	1.08	-70.4	318
MW3A		9/8/16	22.17	256.10	278.27	5	17.71	7.00	498	0.86	-8.6	322
MW3A		12/8/16	21.33	256.94	278.27	5	18.2	6.95	568	0.37	-94.4	369.20
MW3A	continued 278.27	3/10/17	20.13	258.14	278.27	6	17.4	6.99	545	0.12	-65.7	354
MW3A		6/14/17	21.28	256.99	278.27	6	17.7	7.02	488	0.37	-51.6	312
MW3A		9/13/17	21.97	256.30	278.27	5	18.8	6.98	476	1.20	-80.6	309
MW3A		12/5/17	21.34	256.93	278.27	5	19.5	7.04	444	0.22	-88.4	289
MW3A		3/9/18	21.09	257.18	278.27	6	18.3	7.09	565	1.0	-81	284
MW3A		6/15/18	21.64	256.63	278.27	6	20.7	6.52	588	1.1	-70	295

Table 1
Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Field Measurements									
			Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
MW3A		9/17/18	22.17	256.10	278.27	6	20.1	6.91	632	7.0	-90	316
MW3A		12/17/19	21.64	256.63	278.27	5.5	19.7	6.85	612	1.4	-84	305
MW3A		3/18/19	20.64	257.63	278.27	6	19.0	6.94	528	1.4	-60	380
MW3A		5/13/19	21.48	256.79	278.27	5.0	19.1	7.37	586	1.2	-72	407
MW3A		9/16/19	22.35	255.92	278.27	5.5	19.6	6.87	559	2.4	-3	397
MW3A		12/16/19	20.90	257.37	278.27	6.0	17.9	6.88	543	0.97	-22	386
MW3A		3/16/20	19.90	258.37	278.27	6.5	16.3	7.00	579	1.18	-47	412
MW3A		6/16/20	22.04	256.23	278.27	5.5	18.6	7.05	510	0.94	-61	362
MW3A		9/14/20	23.09	255.18	278.27	5.5	20.0	7.02	477	0.84	-53	340
MW3A		12/15/20	21.38	256.89	278.27	6.0	18.4	7.05	499	1.82	-33	354
MW3A		3/17/21	21.31	256.96	278.27	6.0	17.9	7.14	473	1.95	-11	336
MW3A		6/22/21	22.08	256.19	278.27	5.5	19.6	6.97	456	0.91	-44	324
MW3A		9/21/21	24.50	253.77	278.27	4.5	21.1	6.80	475	0.76	55	336
MW3A		12/14/21	20.14	258.13	278.27	6.5	19.2	6.82	348	1.19	34	252
MW3A		3/15/22	21.27	257.00	278.27	5.5	19.0	6.74	371	1.08	-16	262
MW3A		6/15/22	21.52	256.75	278.27	5.5	20.2	6.43	441	0.95	-57	313
MW4	268.77	7/16/02	12.64	256.13	268.77							
MW4		9/18/02	13.51	255.26	268.77							
MW4		10/29/02	13.81	254.96	268.77							
MW4		11/22/02	11.73	257.04	268.77							
MW4		12/31/02	10.53	258.24	268.77							
MW4		1/21/03	14.51	254.26	268.77							
MW4		6/30/03	12.92	255.85	268.77							
MW4		7/31/03	12.98	255.79	268.77							
MW4		8/31/03	13.16	255.61	268.77							
MW4		9/30/03	13.27	255.50	268.77							
MW4		10/31/03	13.32	255.45	268.77							
MW4		11/30/03	11.51	257.26	268.77							
MW4		12/31/03	10.52	258.25	268.77							
MW4		1/31/04	10.60	258.17	268.77							
MW4		2/20/04	10.13	258.64	268.77							
MW4		3/31/04	10.67	258.10	268.77							
MW4		5/2/04	11.71	257.06	268.77							
MW4		6/1/04	12.13	256.64	268.77							
MW4		6/30/04	12.67	256.10	268.77							
MW4		7/31/04	12.84	255.93	268.77							
MW4		9/4/04	12.12	256.65	268.77							
MW4		10/1/04	12.34	256.43	268.77							
MW4		1/4/05	10.15	258.62	268.77							
MW4		4/1/05	8.67	260.10	268.77							
MW4		6/30/05	10.40	258.37	268.77							
MW4		10/7/05	12.32	256.45	268.77	15	18.9	6.60	440	0.1	151	
MW4		1/17/06	8.57	260.20	268.77							
MW4		2/13/06	9.91	258.86	268.77	18	18.4	6.70	370	0.2	-100	
MW4		3/10/06	8.93	259.84	268.77							
MW4		4/29/06	8.79	259.98	268.77							
MW4		5/23/06	10.48	258.29	268.77	13	15.0	6.50	360	8.8	110	
MW4		6/30/06	12.01	256.76	268.77							
MW4		7/25/06	12.36	256.41	268.77							
MW4		8/24/06	12.33	256.44	268.77	18	15.3	6.30	840 Q	4.6	193	
MW4		9/29/06	11.41	257.36	268.77							
MW4		10/24/06	9.63	259.14	268.77							
MW4		11/30/06	9.65	259.12	268.77							
MW4		12/12/06		0.00								
MW4		12/29/06	9.59	259.18	268.77							

Table 1
Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Field Measurements									
			Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
MW4	continued 268.77	1/31/07	10.22	258.55	268.77							
MW4		2/27/07	9.62	259.15	268.77							
MW4		3/13/07		0.00		14	16.5	6.50	690 Q	5.5	3	
MW4		3/30/07	10.74	258.03	268.77							
MW4		4/30/07	11.30	257.47	268.77							
MW4		5/31/07	12.33	256.44	268.77							
MW4		6/25/07	12.65	256.12	268.77	14	14.5	6.68	370	7.4	88	
MW4		7/29/07	11.72	257.05	268.77							
MW4		8/30/07	13.17	255.60	268.77							
MW4		9/27/07	13.07	255.70	268.77	14	14.9	6.69	490	6.6	38	
MW4		10/31/07	12.09	256.68	268.77							
MW4		11/29/07	11.01	257.76	268.77							
MW4		12/27/07	10.37	258.40	268.77	20	17.2	7.05	560 Q	0.0	28	
MW4		2/2/08	9.85	258.92	268.77							
MW4		3/2/08	10.44	258.33	268.77							
MW4		7/7/08	12.70	256.07	268.77	8	15.58	6.94	429	4.14	88.5	
MW4		10/10/08	13.45	255.32	268.77	9	15.24	6.54	391	4.49	22.9	
MW4		11/5/08	13.23	255.54	268.77							
MW4		12/30/08	12.15	256.62	268.77	8	15.95	6.79	431	1.84	48.5	
MW4		3/12/09	10.14	258.63	268.77	11	16.34	6.78	449	1.87	56	292
MW4		6/16/09	11.62	257.15	268.77	8	15.99	6.92	429	2.31	-37.5	279
MW4		9/22/09	13.68	255.09	268.77	7	16.02	6.76	439	2.28	-17.30	285
MW4		12/15/09	11.94	256.83	268.77	8	17.24	6.69	511	3.18	73.30	332
MW4		3/22/10	10.48	258.29	268.77	8	21.87	7.16	494	1.77	-9.30	321
MW4		6/22/10	11.92	256.85	268.77	8	17.15	6.90	448	3.88	61.20	291
MW4		9/22/10	12.44	256.33	268.77	8	17.03	6.77	447	1.47	56.2	291
MW4		12/14/10	10.73	10.73	268.77	8	17.71	7.05	480	1.28	-0.2	312
MW4		3/29/11	8.64	260.13	268.77	9	18.32	6.67	403	1.09	-176.6	262
MW4		6/23/11	11.06	257.71	268.77	8	16.53	7.05	362	1.96	-63.9	235
MW4		9/14/11	12.41	256.36	268.77	8	16.55	7.11	371	1.39	105.8	241
MW4		12/14/11	11.46	257.31	268.77	8	17.41	6.40	413	1.33	-36.8	269
MW4		3/21/12	10.35	258.42	268.77	8	17.59	6.01	399	5.17	59.0	260
MW4		6/26/12	12.37	256.40	268.77	8	16.69	6.27	392	1.47	46.8	255
MW4		9/26/12	13.09	255.68	268.77	7	17.10	6.43	433	2.64	25.8	282
MW4		12/18/12	11.14	257.63	268.77	8	17.22	6.90	446	1.59	-40.8	290
MW4	3/11/13	11.42	257.35	268.77	9	17.59	6.76	437	2.31	103.2	284	
MW4	6/27/13	13.30	255.47	268.77	7	16.72	6.79	427	4.12	150.1	278	
MW4	9/11/13	14.85	253.92	268.77	6	17.15	6.71	434	1.80	87.2	281	
MW4	12/11/13	14.21	254.56	268.77	7	17.32	6.76	451	1.23	20.9	293	
MW4	3/5/14	11.52	257.25	268.77	8	17.90	6.86	456	1.08	136.2	296	
MW4	6/17/14	13.70	255.07	268.77	8	18.00	6.74	460	1.31	29.1	299	
MW4	9/18/14	15.99	252.78	268.77	6	17.30	6.83	417	1.14	28.2	271	
MW4	12/18/14	13.36	255.41	268.77	7	17.88	6.81	436	0.65	-1.8	283	
MW4	3/24/15	12.50	256.27	268.77	9	17.73	6.62	455	0.07	44.0	296	
MW4	6/11/15	13.35	255.42	268.77	8	17.26	6.53	467	0.11	101.8	303	
MW4	9/17/15	15.61	253.16	268.77	6	17.56	6.66	476	0.69	93.7	310	
MW4	12/16/15	13.53	255.24	268.77	9	18.09	6.67	473	1.14	46.6	307	
MW4	3/29/16	10.99	257.78	268.77	8	17.85	6.78	537	0.17	79.0	349	
MW4	6/21/16	13.08	255.69	268.77	8	17.20	6.59	535	0.83	121.0	348	
MW4	9/8/16	14.36	254.41	268.77	9	17.36	6.66	498	0.50	140.1	324	
MW4	12/9/16	12.36	256.41	268.77	8	18.5	6.58	507	0.48	61.1	330	
MW4	3/9/17	9.04	259.73	268.77	9	18.1	6.66	707	0.14	175.5	461	
MW4	6/14/17	8.34	260.43	268.77	13	16.9	6.67	468	0.63	102.8	304	
MW4	9/13/17	12.86	255.91	268.77	8	17.8	6.81	494	2.14	89.6	320	
MW4	12/5/17	12.16	256.61	268.77	8	19.9	6.77	449	0.29	140.7	292	

Table 1
Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Field Measurements									
			Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
MW4	continued 268.77	3/9/18	11.91	256.86	268.77	8	19.8	6.79	542	1.2	136	271
MW4		6/15/18	13.19	255.58	268.77	9	19.0	6.71	560	1.6	131	280
MW4		9/17/18	14.12	254.65	268.77	8	21.0	6.84	561	5.2	405	231
MW4		12/17/18	12.46	256.31	268.77	9	18.9	6.92	560	0.7	157	290
MW4		3/18/19	9.72	259.05	268.77	10	18.8	6.85	399	2.2	145	282
MW4		5/13/19	11.49	257.28	268.77	9.5	18.1	6.88	395	1.5	202	278
MW4		12/16/19	11.99	256.78	268.77	9.0	18.3	6.78	473	2.03	204	336
MW4		9/16/19	14.05	254.72	268.77	8.0	17.6	6.74	483	2.6	24	341
MW4		3/16/20	11.74	257.03	268.77	9.0	16.8	6.87	472	1.31	155	334
MW4		6/16/20	12.38	256.39	268.77	9.0	19.5	6.85	497	1.28	139	353
MW4		9/14/20	15.02	253.75	268.77	7.5	19.0	6.87	482	1.66	211	341
MW4		12/15/20	13.75	255.02	268.77	8.5	17.8	6.94	460	1.82	107	324
MW4		3/17/21	12.30	256.47	268.77	9.0	18.5	7.03	450	1.82	153	319
MW4		6/22/21	14.20	254.57	268.77	8.0	19.3	6.86	455	1.81	164	323
MW4		9/21/21	16.65	252.12	268.77	7.0	19.1	6.72	451	1.79	200	319
MW4		12/14/21	11.65	257.12	268.77	9.5	18.3	6.95	333	1.88	142	236
MW4		.3/15/22	12.03	256.74	268.77	9.0	18.5	7.18	280	1.53	98	198
MW4		6/15/22	13.43	255.34	268.77	8.5	17.1	6.55	356	1.23	17	251
MW4A	265.72	8/30/07	9.82	255.90	265.72							
MW4A		9/24/07	9.64	256.08	265.72							
MW4A		10/31/07	8.81	256.91	265.72							
MW4A		11/29/07	7.78	257.94	265.72							
MW4A		12/27/07	7.09	258.63	265.72	18	16.4	6.82	450	0.4	161	
MW4A		2/2/08	6.73	258.99	265.72							
MW4A		3/2/08	7.23	258.49	265.72							
MW4A		7/7/08	9.48	256.24	265.72	9	16.62	6.73	473	3.79	52.7	
MW4A		10/10/08	10.17	255.55	265.72	9	17.58	6.55	370	2.40	-44.2	
MW4A		11/5/08	9.86	255.86	265.72							
MW4A		12/30/08	8.68	257.04	265.72	9	16.16	6.72	366	1.84	49.3	
MW4A		3/12/09	6.97	258.75	265.72	10	14.83	7.11	403	3.03	114.1	262
MW4A		6/16/09	8.32	257.40	265.72	9	16.04	6.98	433	2.34	-56.1	282
MW4A		9/22/09	10.49	255.23	265.72	8	16.94	6.09	392	3.04	26.0	255
MW4A		12/15/09	8.50	257.22	265.72	9	16.60	6.16	398	3.61	116.2	259
MW4A		3/22/10	7.24	258.48	265.72	10	15.21	7.26	487	3.42	101.0	317
MW4A		6/22/10	8.64	257.08	265.72	9	16.11	6.95	514	6.94	86.2	334
MW4A		09/22/10	9.30	256.42	265.72	9	17.63	6.67	448	1.42	43.7	291
MW4A		12/14/10	7.54	258.18	265.72	9	15.89	6.96	456	1.62	38.6	296
MW4A		03/30/11	6.18	259.54	265.72	11	14.58	6.79	501	2.29	-167.8	326
MW4A		06/23/11	7.93	257.79	265.72	9	16.46	6.76	451	2.78	44.4	293
MW4A		09/14/11	9.23	256.49	265.72	9	18.19	6.74	418	0.93	-260.1	272
MW4A		12/14/11	8.15	257.57	265.72	9	15.85	6.26	397	2.01	-1.9	258
MW4A		03/21/12	7.10	258.62	265.72	10	14.32	6.40	370	2.12	66.5	239
MW4A		06/26/12	9.14	256.58	265.72	9	16.65	6.77	418	1.81	56.0	272
MW4A		09/26/12	9.92	255.80	265.72	8	17.87	6.32	421	1.78	36.7	274
MW4A		12/19/12	7.82	257.90	265.72	9	16.11	6.97	399	1.16	-34.5	259
MW4A		03/11/13	8.12	257.60	265.72	9	14.33	6.73	425	3.06	95.3	277
MW4A		06/27/13	10.01	255.71	265.72	9	15.37	6.64	415	2.98	131.9	269
MW4A		09/12/13	11.60	254.12	265.72	8	16.94	6.40	391	1.77	112.4	254
MW4A		12/11/13	10.91	254.81	265.72	8	16.60	6.69	369	1.42	32.6	240
MW4A		03/05/14	7.98	257.74	265.72	10	15.11	6.86	381	1.37	120.0	247
MW4A		06/17/14	10.45	255.27	265.72	9	16.76	6.76	391	1.58	60.7	254
MW4A		09/18/14	12.72	253.00	265.72	7	17.68	6.81	338	1.04	28.3	220
MW4A		12/18/14	9.81	255.91	265.72	8	17.37	6.95	347	0.62	31.8	225

Table 1
Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Field Measurements									
			Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
MW4A	continued 265.72	03/24/15	9.12	256.60	265.72	9	15.32	6.68	370	0.09	46.0	241
MW4A		06/11/15	10.07	255.65	265.72	10	15.92	6.58	391	0.14	113.5	254
MW4A		09/17/15	12.34	253.38	265.72	8	18.11	6.68	396	0.60	99.1	258
MW4A		12/16/15	10.21	255.51	265.72	8	17.54	6.38	365	3.14	50.6	233
MW4A		03/29/16	6.68	259.04	265.72	10	14.63	6.72	468	0.12	112.4	304
MW4A		06/21/16	9.81	255.91	265.72	8	16.03	6.59	497	0.95	113.2	323
MW4A		09/08/16	11.16	254.56	265.72	7	16.83	6.65	471	0.50	134.8	306
MW4A		12/09/16	8.99	256.73	265.72	9	17.1	6.54	454	0.48	66.5	295
MW4A		03/09/17	6.37	259.35	265.72	11	13.3	6.85	445	0.14	211.4	289
MW4A		06/14/17	7.92	257.80	265.72	10	17.1	6.74	473	0.43	116.1	308
MW4A		09/13/17	9.57	256.15	265.72	9	17.7	6.76	486	1.62	68.9	316
MW4A		12/05/17	8.73	256.99	265.72	9	16.8	6.79	436	0.36	162.1	283
MW4A		3/9/18	8.53	257.19	265.72	10	13.7	7.02	597	1.8	156	299
MW4A		6/15/18	9.94	255.78	265.72	9	16.8	6.64	560	1.5	136	280
MW4A		9/17/18	10.67	255.05	265.72	9	18.0	6.84	529	7.2	294	264
MW4A		12/17/18	8.73	256.99	265.72	9.5	16.6	6.77	540	2.0	150	270
MW4A		3/18/19	6.68	259.04	265.72	10.5	14.4	7.00	421	3.8	153	299
MW4A		5/13/19	8.21	257.51	265.72	10.0	18.2	6.88	513	3.2	140	368
MW4A		9/16/19	10.53	255.19	265.72	9.5	17.9	6.80	442	2.7	61	311
MW4A		12/16/19	8.42	257.30	265.72	10.0	15.9	6.89	435	1.87	207	311
MW4A		3/16/20	7.52	258.20	265.72	10.0	11.6	7.37	446	2.32	179	319
MW4A		6/16/20	9.02	256.70	265.72	9.5	16.8	6.92	484	2.06	164	344
MW4A		9/14/20	11.48	254.24	265.72	8.5	18.0	6.88	430	1.63	192	305
MW4A		12/15/20	10.19	255.53	265.72	9.0	16.1	7.03	413	1.67	145	294
MW4A		3/17/21	8.76	256.96	265.72	9.5	13.0	7.17	433	2.14	92	306
MW4A		6/22/21	10.73	254.99	265.72	8.5	16.6	6.88	387	1.29	158	270
MW4A		9/21/21	13.09	252.63	265.72	7.5	18.7	6.68	270	1.07	203	376
MW4A		12/14/21	7.84	257.88	265.72	10.0	15.7	6.95	247	2.60	158	175
MW4A		3/15/22	8.34	257.38	265.72	10.0	13.8	6.85	347	2.04	109	245
MW4A		6/15/22	9.93	255.79	265.72	9.0	16.7	6.65	370	1.51	65	261
MW5A	266.13	8/30/07	8.86	257.27	266.13							
MW5A		9/24/07	8.72	257.41	266.13							
MW5A		10/31/07	7.92	258.21	266.13							
MW5A		11/29/07	6.68	259.45	266.13							
MW5A		12/31/07	6.06	260.07	266.13	45	16.3	6.94	460	1.3	224	
MW5A		2/2/08	5.72	260.41	266.13							
MW5A		3/2/08	6.22	259.91	266.13							
MW5A		7/2/08	8.29	257.84	266.13	40	59.9	7.00	353			
MW5A		10/10/08	9.43	256.70	266.13	40	17.24	6.63	295	3.45	24.1	
MW5A		11/5/08	9.17	256.96	266.13							
MW5A		12/30/08	7.84	258.29	266.13	39	16.47	6.77	306	1.29	133.1	
MW5A		3/12/09	5.99	260.14	266.13	44	15.25	6.87	415	2.03	117.8	269
MW5A		6/16/09	7.16	258.97	266.13	41	15.67	6.43	445	1.93	9.8	289
MW5A		9/22/09	9.82	256.31	266.13	36	17.41	6.85	318	2.30	51.8	207
MW5A		12/15/09	7.43	258.70	266.13	41	16.85	6.43	360	2.80	131.4	234
MW5A		3/22/10	6.27	259.86	266.13	43	15.27	6.68	529	2.59	97.9	344
MW5A		6/22/10	7.59	258.54	266.13	41	16.27	6.76	439	2.55	154.3	285
MW5A		9/22/10	8.26	257.87	266.13	39	16.51	6.68	430	1.62	97.6	279
MW5A		12/14/10	6.41	259.72	266.13	42	16.16	6.96	475	1.48	32.5	309
MW5A		3/29/11	5.08	261.05	266.13	45	15.06	6.80	496	2.11	-156.4	322
MW5A		6/23/11	6.54	259.59	266.13	42	14.33	6.62	464	1.84	24.2	302
MW5A		9/14/11	7.97	258.16	266.13	39	16.62	6.81	375	1.24	124.0	244
MW5A		12/14/11	6.96	259.17	266.13	42	16.48	6.35	359	1.69	-12.0	233
MW5A		3/21/12	5.89	260.24	266.13	45	14.91	6.62	379	2.60	36.3	245
MW5A		6/26/12	7.82	258.31	266.13	40	15.61	6.67	370	1.64	53.8	240
MW5A		9/26/12	8.83	257.30	266.13	38	16.45	6.63	371	1.94	12.4	240

Table 1
Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Field Measurements									
			Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
MW5A	continued 266.13	12/19/12	6.72	259.41	266.13	42	16.46	6.97	424	1.18	-28.7	272
MW5A		3/11/13	6.94	259.19	266.13	42	14.76	6.61	404	2.09	71.3	262
MW5A		6/27/13	8.88	257.25	266.13	33	16.10	5.50	348	2.85	192.2	226
MW5A		9/12/13	11.79	254.34	266.13	33	17.85	6.82	360	2.40	118.7	221
MW5A		12/11/13	10.17	255.96	266.13	35	17.44	6.62	381	1.71	65.3	249
MW5A		3/5/14	6.84	259.29	266.13	41	16.08	6.97	401	1.28	138.4	261
MW5A		6/17/14	9.43	256.70	266.13	40	16.40	6.73	378	1.51	64.1	245
MW5A		9/18/14	12.09	254.04	266.13	32	17.38	6.76	317	1.11	-22.5	206
MW5A		12/18/14	8.76	257.37	266.13	38	17.68	6.79	370	0.56	44.6	240
MW5A		3/24/15	7.91	258.22	266.13	45	15.62	6.61	424	0.06	49.8	276
MW5A		6/11/15	8.83	257.30	266.13	38	15.98	6.46	404	0.10	114.4	263
MW5A		9/17/15	11.69	254.44	266.13	33	17.57	6.65	380	0.55	92.0	247
MW5A		12/16/15	9.16	256.97	266.13	38	17.87	6.46	423	1.55	49.8	275
MW5A		3/29/16	6.68	259.45	266.13	42	15.00	6.61	505	0.13	138.9	328
MW5A		6/21/16	8.53	257.60	266.13	39	15.88	6.08	479	0.62	150.5	311
MW5A		9/8/16	10.31	255.82	266.13	36	17.49	6.66	425	0.32	144	276
MW5A		12/9/16	7.89	258.24	266.13	40	18.2	6.50	446	0.27	78.9	289.9
MW5A		3/9/17	5.12	261.01	266.13	45	14.9	6.74	457	0.20	163.1	297
MW5A		6/14/17	6.43	259.70	266.13	44	16.4	6.69	465	0.48	104.1	302
MW5A		9/13/17	8.28	257.85	266.13	39	17.1	6.53	512	1.80	138.6	333
MW5A		12/5/17	7.45	258.68	266.13	41	17.5	6.74	408	0.20	142.1	265
MW5A		3/9/18	7.25	258.88	266.13	41	14.3	6.84	491	1.90	154	245
MW5A		6/15/18	8.57	257.56	266.13	40	17.7	6.39	482	2.0	144	242
MW5A		9/17/18	9.52	256.61	266.13	37	17.9	6.62	462	8.4	150	231
MW5A		12/17/18	7.38	258.75	266.13	41	17.8	6.55	421	2.1	160	210
MW5A		3/18/19	5.27	260.86	266.13	45	18.0	6.83	398	1.3	180	282
MW5A		5/13/19	6.85	259.28	266.13	40	16.8	7.30	438	1.8	202	310
MW5A		9/16/19	9.25	256.88	266.13	37	19.2	6.67	408	3.9	26	292
MW5A		12/16/19	7.05	259.08	266.13	42	17.5	6.81	393	1.76	273	278
MW5A		3/16/20	5.99	260.14	266.13	44	14.2	7.03	379	3.26	161	169
MW5A		6/16/20	7.60	258.53	266.13	41	15.7	6.92	467	3.31	204	330
MW5A		9/14/20	10.47	255.66	266.13	35	18.9	6.84	341	2.56	193	241
MW5A	12/15/20	9.04	257.09	266.13	38	15.5	7.06	369	4.48	211	265	
MW5A	3/17/21	7.47	258.66	266.13	41	15.1	7.01	384	2.91	219	274	
MW5A	6/22/21	9.52	256.61	266.13	37	20.3	6.89	315	2.12	58	227	
MW5A	9/21/21	12.27	253.86	266.13	31	20.3	7.02	315	2.89	129	223	
MW5A	12/14/21	6.38	259.75	266.13	43	15.4	6.92	273	1.99	176	194	
MW5A	3/15/22	6.91	259.22	266.13	42	20.3	6.80	315	2.44	135	224	
MW5A	6/15/22	8.43	257.70	266.13	39	16.7	6.35	342	1.58	101	246	
Piezometers												
P1	268.88	8/30/07	8.77	260.11	268.88							
P1		9/24/07	8.99	259.89	268.88							
P1		10/31/07	8.12	260.76	268.88							
P1		11/29/07	6.38	262.50	268.88							
P1		12/24/07	5.65	263.23	268.88							
P1		2/2/08	4.97	263.91	268.88							
P1		3/2/08	6.84	262.04	268.88							
P1		7/21/08	8.34	260.54	268.88							
P1		10/2/08	9.61	259.27	268.88							
P1		11/5/08	9.52	259.36	268.88							
P1		12/29/08	7.73	261.15	268.88							
P1		3/11/09	5.40	263.48	268.88							
P1		6/16/09	6.28	262.60	268.88							
P1		9/22/09	9.86	259.02	268.88							

Table 1
Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

			Field Measurements									
Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
P1	continued 268.88	12/15/09	7.83	261.05	268.88							
P1		3/22/10	5.36	263.52	268.88							
P1		6/22/10	6.73	262.15	268.88							
P1		9/22/10	8.14	260.74	268.88							
P1		12/13/10	5.96	262.92	268.88							
P1		3/28/11	3.68	265.20	268.88							
P1		6/22/11	5.18	263.70	268.88							
P1		9/13/11	7.04	261.84	268.88							
P1		12/12/11	6.01	262.87	268.88							
P1		3/20/12	4.52	264.36	268.88							
P1		6/25/12	6.29	262.59	268.88							
P1		9/24/12	8.17	260.71	268.88							
P1		12/17/12	5.98	262.90	268.88							
P1		3/11/13	5.91	262.97	268.88							
P1		6/24/13	7.61	261.27	268.88							
P1		9/11/13	10.20	258.68	268.88							
P1		12/10/13	10.26	258.62	268.88							
P1		3/4/14	5.49	263.39	268.88							
P1		6/16/14	8.36	260.52	268.88							
P1		9/17/14	12.05	256.83	268.88							
P1		12/17/14	7.62	261.26	268.88							
P1		3/23/15	7.01	261.87	268.88							
P1		6/10/15	7.08	261.80	268.88							
P1		9/16/15	11.72	257.16	268.88							
P1		12/15/15	7.77	261.11	268.88							
P1		3/29/16	4.89	263.99	268.88							
P1		6/20/16	6.89	261.99	268.88							
P1		9/7/16	10.06	258.82	268.88							
P1		12/7/16	6.92	261.96	268.88							
P1		3/8/17	3.67	265.21	268.88							
P1		6/13/17	5.23	263.65	268.88							
P1		9/12/17	7.47	261.41	268.88							
P1		12/4/17	5.92	262.96	268.88							
P1		3/9/18	5.65	263.23	268.88							
P1		6/15/18	6.14	262.74	268.88							
P1		9/16/18	8.44	260.44	268.88							
P1		12/16/18	7.25	261.63	268.88							
P1		3/18/19	3.65	265.23	268.88							
P1		5/13/19	5.22	263.66	268.88							
P1		9/15/19	7.54	261.34	268.88							
P1	12/15/19	5.42	263.46	268.88								
P1	3/15/20	4.92	263.96	268.88								
P1	6/14/20	6.34	262.54	268.88								
P1	9/13/20	9.89	258.99	268.88								
P1	12/15/20	8.11	260.77	268.88								
P1	3/17/21	6.15	262.73	268.88								
P1	6/22/21	8.11	260.77	268.88								
P1	9/21/21	12.08	256.80	268.88								
P1	12/14/21	6.11	262.77	268.88								
P1	3/15/22	6.22	262.66	268.88								
P1	6/12/22	6.49	262.39	268.88								
P2	277.33	8/30/07	17.12	260.21	277.33							
P2		9/24/07	17.41	259.92	277.33							
P2		10/31/07	16.72	260.61	277.33							
P2		11/29/07	15.72	261.61	277.33							

Table 1
Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

			Field Measurements									
	MP		Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/Reduction Potential	Field TDS
Sample ID	Elevation	Date										
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
P2		12/24/07	15.16	262.17	277.33							
P2		2/2/08	14.45	262.88	277.33							
P2		3/2/08	15.06	262.27	277.33							
P2		7/21/08	16.28	261.05	277.33							
P2		10/2/08	17.41	259.92	277.33							
P2		11/5/08	17.37	259.96	277.33							
P2		12/29/08	16.10	261.23	277.33							
P2		3/11/09	14.86	262.47	277.33							
P2		6/16/09	15.86	261.47	277.33							
P2		9/22/09	17.47	259.86	277.33							
P2		12/15/09	16.41	260.92	277.33							
P2		3/22/10	15.16	262.17	277.33							
P2		6/22/10	15.82	261.51	277.33							
P2		9/22/10	16.96	260.37	277.33							
P2		12/13/10	15.45	261.88	277.33							
P2		3/28/11	12.82	264.51	277.33							
P2		6/22/11	15.14	262.19	277.33							
P2		9/13/11	16.34	260.99	277.33							
P2		12/12/11	15.75	261.58	277.33							
P2		3/20/12	14.43	262.90	277.33							
P2		6/25/12	16.01	261.32	277.33							
P2		9/24/12	17.44	259.89	277.33							
P2		12/17/12	16.09	261.24	277.33							
P2		3/11/13	15.99	261.34	277.33							
P2		6/24/13	17.09	260.24	277.33							
P2		9/11/13	18.70	258.63	277.33							
P2		12/10/13	18.87	258.46	277.33							
P2		3/4/14	13.84	263.49	277.33							
P2		6/16/14	17.04	260.29	277.33							
P2		9/17/14	19.79	257.54	277.33							
P2		12/17/14	14.47	262.86	277.33							
P2		3/23/15	15.91	261.42	277.33							
P2		6/10/15	15.02	262.31	277.33							
P2		9/16/15	19.46	257.87	277.33							
P2		12/15/15	14.74	262.59	277.33							
P2		3/29/16	12.64	264.69	277.33							
P2		6/21/16	15.04	262.29	277.33							
P2		9/7/16	18.38	258.95	277.33							
P2		12/7/16	15.22	262.11	277.33							
P2		3/8/17	12.85	264.48	277.33							
P2		6/13/17	15.53	261.80	277.33							
P2		9/12/17	16.89	260.44	277.33							
P2		12/4/17	14.48	262.85	277.33							
P2		3/8/17	14.25	263.08	277.33							
P2		6/15/18	14.30	263.03	277.33							
P2		9/16/18	16.68	260.65	277.33							
P2		12/16/18	17.18	260.15	277.33							
P2		3/18/19	14.58	262.75	277.33							
P2		5/10/19	15.45	261.88	277.33							

Table 1
Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

			Field Measurements									
			Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/Reduction Potential	Field TDS
Sample ID	MP Elevation	Date										
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
P2	continued 277.33	9/15/19	16.42	260.91	277.33							
P2		12/15/19	13.82	263.51	277.33							
P2		3/15/20	14.58	262.75	277.33							
P2		6/14/20	16.08	261.25	277.33							
P2		9/13/20	18.30	259.03	277.33							
P2		12/13/20	16.29	261.04	277.33							
P2		3/17/21	14.82	262.51	277.33							
P2		6/22/21	17.06	260.27	277.33							
P2		9/21/21	20.03	257.30	277.33							
P2		12/14/21	16.71	260.62	277.33							
P2		3/14/22	16.24	261.09	277.33							
P2		6/12/22	15.53	261.80	277.33							
P3	275.71	8/30/07	17.67	258.04	275.71							
P3		9/24/07	17.04	258.67	275.71							
P3		10/31/07	15.43	260.28	275.71							
P3		11/29/07	12.57	263.14	275.71							
P3		12/24/07	12.32	263.39	275.71							
P3		2/2/08	12.36	263.35	275.71							
P3		3/2/08	13.55	262.16	275.71							
P3		7/21/08	16.65	259.06	275.71							
P3		10/2/08	16.89	258.82	275.71							
P3		11/5/08	16.77	258.94	275.71							
P3		12/29/08	16.23	259.48	275.71							
P3		3/11/09	13.19	262.52	275.71							
P3		6/16/09	14.27	261.44	275.71							
P3		9/22/09	16.90	258.81	275.71							
P3		12/15/09	14.99	260.72	275.71							
P3		3/22/10	13.23	262.48	275.71							
P3		6/22/10	15.42	260.29	275.71							
P3		9/22/10	18.35	257.36	275.71							
P3		12/13/10	14.05	261.66	275.71							
P3		3/28/11	11.38	264.33	275.71							
P3		6/22/11	12.89	262.82	275.71							
P3		9/13/11	15.93	259.78	275.71							
P3		12/12/11	15.74	259.97	275.71							
P3		3/20/12	13.59	262.12	275.71							
P3		6/25/12	15.54	260.17	275.71							
P3		9/24/12	15.96	259.75	275.71							
P3		12/17/12	14.49	261.22	275.71							
P3		3/11/13	15.20	260.51	275.71							
P3		6/24/13	16.78	258.93	275.71							
P3		9/11/13	18.59	257.12	275.71							
P3		12/10/13	17.44	258.27	275.71							
P3		3/4/14	15.48	260.23	275.71							
P3		6/16/14	17.76	257.95	275.71							
P3		9/17/14	20.23	255.48	275.71							
P3		12/17/14	17.17	258.54	275.71							
P3		3/23/15	17.05	258.66	275.71							
P3		6/10/15	17.40	258.31	275.71							
P3		9/16/15	20.32	255.39	275.71							
P3		12/15/15	17.74	257.97	275.71							
P3		3/29/16	15.65	260.06	275.71							
P3		6/20/16	16.65	259.06	275.71							
P3		9/7/16	20.71	255.00	275.71							
P3		12/7/16	19.23	256.48	275.71							

Table 1
Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Field Measurements									
			Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
P3	continued 275.71	3/8/17	14.52	261.19	275.71							
P3		6/13/17	16.37	259.34	275.71							
P3		9/12/17	18.93	256.78	275.71							
P3		12/4/17	18.85	256.86	275.71							
P3		3/8/18	18.80	256.91	275.71							
P3		6/15/18	19.53	256.18	275.71							
P3		9/16/18	20.97	254.74	275.71							
P3		12/16/18	18.98	256.73	275.71							
P3		3/18/19	14.30	261.41	275.71							
P3		5/13/19	16.30	259.41	275.71							
P3		9/15/19	17.81	257.90	275.71							
P3		12/15/19	18.65	257.06	275.71							
P3		3/15/19	18.20	257.51	275.71							
P3		6/14/20	17.62	258.09	275.71							
P3		9/13/20	22.33	253.38	275.71							
P3		12/13/20	20.66	255.05	275.71							
P3		3/17/21	19.24	256.47	275.71							
P3		6/22/21	21.26	254.45	275.71	26	20.5	6.70	425	1.11	21	303
P3		9/21/21	24.10	251.61	275.71	21	21.2	6.71	456	0.73	-15	324
P3		12/14/21	17.13	258.58	275.71							
P3		3/15/22	17.31	258.40	275.71							
P3		6/12/22	18.68	257.03	275.71							
P5B	265.51	8/30/07	8.23	257.28	265.51							
P5B		9/24/07	8.08	257.43	265.51							
P5B		10/31/07	7.29	258.22	265.51							
P5B		11/29/07	6.06	259.45	265.51							
P5B		12/24/07	5.44	260.07	265.51							
P5B		2/2/08	5.11	260.40	265.51							
P5B		3/2/08	5.59	259.92	265.51							
P5B		7/21/08	8.28	257.23	265.51							
P5B		10/2/08	8.96	256.55	265.51							
P5B		11/5/08	8.53	256.98	265.51							
P5B		12/29/08	7.19	258.32	265.51							
P5B		3/11/09	5.36	260.15	265.51							
P5B		6/16/09	6.51	259.00	265.51							
P5B		9/22/09	9.19	256.32	265.51							
P5B		12/15/09	7.08	258.43	265.51							
P5B		3/22/10	5.63	259.88	265.51							
P5B		6/22/10	6.96	258.55	265.51							
P5B		9/22/10	7.62	257.89	265.51							
P5B		12/13/10	5.79	259.72	265.51							
P5B		3/28/11	4.46	261.05	265.51							
P5B		6/22/11	5.91	259.60	265.51							
P5B		9/13/11	7.32	258.19	265.51							
P5B		12/12/11	6.31	259.20	265.51							
P5B		3/20/12	5.24	260.27	265.51							
P5B		6/25/12	7.16	258.35	265.51							
P5B		9/24/12	8.19	257.32	265.51							
P5B		12/17/12	6.08	259.43	265.51							
P5B		3/11/13	6.31	259.20	265.51							
P5B		6/24/13	8.24	257.27	265.51							
P5B		9/11/13	10.14	255.37	265.51							
P5B		12/10/13	6.54	258.97	265.51							
P5B		3/4/14	6.19	259.32	265.51							
P5B		6/16/14	8.78	256.73	265.51							
P5B		9/17/14	11.44	254.07	265.51							

Table 1
Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Field Measurements									
			Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
P5B	continued 265.51	12/17/14	8.11	257.40	265.51							
P5B		3/23/15	7.37	258.14	265.51							
P5B		6/10/15	8.19	257.32	265.51							
P5B		9/16/15	11.06	254.45	265.51							
P5B		12/15/15	8.51	257.00	265.51							
P5B		3/29/16	6.02	259.49	265.51							
P5B		6/20/16	7.88	257.63	265.51							
P5B		9/7/16	9.66	255.85	265.51							
P5B		12/7/16	7.24	258.27	265.51							
P5B		3/8/17	4.51	261.00	265.51							
P5B		6/13/17	5.83	259.68	265.51							
P5B		9/12/17	7.65	257.86	265.51							
P5B		12/4/17	6.84	258.67	265.51							
P5B		3/8/18	6.60	258.91	265.51							
P5B		6/15/18	7.85	257.66	265.51							
P5B		9/16/18	8.89	256.62	265.51							
P5B		12/16/18	6.76	258.75	265.51							
P5B		3/18/19	4.63	260.88	265.51							
P5B		5/13/19	6.09	259.42	265.51							
P5B		9/16/19	8.34	257.17	265.51							
P5B		12/16/19	6.44	259.07	265.51							
P5B		3/16/19	5.31	260.20	265.51							
P5B		6/14/20	6.69	258.82	265.51							
P5B		9/13/20	9.83	255.68	265.51							
P5B		12/13/20	8.45	257.06	265.51							
P5B		3/17/21	6.82	258.69	265.51							
P5B		6/22/21	8.92	256.59	265.51	9	17.6	6.76	347	1.2	127	247
P5B		9/21/21	11.65	253.86	265.51	3	19.1	6.58	324	2.07	99	231
P5B	12/14/21	5.77	259.74	265.51								
P5B	3/15/22	6.28	259.23	265.51								
P5B	6/15/22	7.79	257.72	265.51								
MW7	268.29	3/2/08	9.93	248.43	258.36							
MW7		7/21/08	12.63	243.03	255.66							
MW7		10/2/08	13.16	241.97	255.13							
MW7		11/5/08	12.73	242.83	255.56							
MW7		12/20/08	11.98	244.33	256.31							
MW08-1	258.16	9/22/09	5.59	252.57	258.16							
MW08-1		12/15/09	3.46	254.70	258.16							
MW08-1		3/22/10	2.54	255.62	258.16							
MW08-1		6/22/10	3.79	254.37	258.16							
MW08-1		9/22/10	4.43	253.73	258.16							
MW08-1		12/13/10	2.22	255.94	258.16							
MW08-1		3/28/11	1.64	256.52	258.16							
MW08-1		9/13/11	4.20	253.96	258.16							
MW08-1		3/20/12	1.79	256.37	258.16							
MW08-1		9/24/12	5.76	252.40	258.16							
MW08-1		3/11/13	2.69	255.47	258.16							
MW08-1		6/24/13	5.18	252.98	258.16							
MW08-1		9/11/13	8.35	249.81	258.16							
MW08-1		3/4/14	2.40	255.76	258.16							
MW08-1		6/16/14	4.93	253.23	258.16							
MW08-1		9/17/14	7.32	250.84	258.16							
MW08-1		12/17/14	4.67	253.49	258.16							
MW08-1		3/23/15	3.40	254.76	258.16							

Table 1
Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Field Measurements									
			Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
MW08-1	continued 258.16	6/10/15	4.69	253.47	258.16							
MW08-1		9/16/15	6.93	251.23	258.16							
MW08-1		12/15/15	5.00	253.16	258.16							
MW08-1		3/29/16	2.77	255.39	258.16							
MW08-1		6/20/16	4.69	253.47	258.16							
MW08-1		9/7/16	6.08	252.08	258.16							
MW08-1		12/7/16	3.63	254.53	258.16							
MW08-1		3/8/17	2.14	256.02	258.16							
MW08-1		6/13/17	3.46	254.70	258.16							
MW08-1		9/12/17	5.02	253.14	258.16							
MW08-1		12/4/17	3.39	254.77	258.16							
MW08-1		3/8/18	2.86	255.30	258.16							
MW08-1		6/15/18	5.36	252.80	258.16							
MW08-1		9/16/18	5.57	252.59	258.16							
MW08-1		12/16/18	3.90	254.26	258.16							
MW08-1		3/18/19	2.33	255.83	258.16							
MW08-1		5/10/19	3.50	254.66	258.16							
MW08-1		9/15/19	5.32	252.84	258.16							
MW08-1		12/15/19	2.86	255.30	258.16							
MW08-1		3/15/20	2.27	255.89	258.16							
MW08-1		6/14/20	4.07	254.09	258.16							
MW08-1		9/13/20	6.18	251.98	258.16							
MW08-1		12/13/20	4.75	253.41	258.16							
MW08-1		3/16/21	2.94	255.22	258.16							
MW08-1		6/20/21	3.65	254.51	258.16							
MW08-1	9/21/21	7.81	250.35	258.16								
MW08-1	12/12/21	3.75	254.41	258.16								
MW08-1	3/14/22	3.50	254.66	258.16								
MW08-1	6/12/22	4.80	253.36	258.16								
MW08-2A	262.33 Deep Well	9/22/09	14.63	247.70	262.33							
MW08-2A		12/15/09	14.21	248.12	262.33							
MW08-2A		3/22/10	8.59	253.74	262.33							
MW08-2A		6/22/10	9.42	252.91	262.33							
MW08-2A		9/22/10	12.01	250.32	262.33							
MW08-2A		12/13/10	9.45	252.88	262.33							
MW08-2A		3/28/11	7.01	255.32	262.33							
MW08-2A		9/13/11	10.59	251.74	262.33							
MW08-2A		3/20/12	7.63	254.70	262.33							
MW08-2A		9/24/12	11.71	250.62	262.33							
MW08-2A		3/11/13	7.95	254.38	262.33							
MW08-2A		6/24/13	9.91	252.42	262.33							
MW08-2A		9/11/13	12.60	249.73	262.33							
MW08-2A		3/4/14	10.26	252.07	262.33							
MW08-2A		6/16/14	10.65	251.68	262.33							
MW08-2A		9/17/14	14.90	247.43	262.33							
MW08-2A		12/17/14	14.78	247.55	262.33							
MW08-2A		3/23/15	10.04	252.29	262.33							
MW08-2A		6/10/15	11.02	251.31	262.33							
MW08-2A		9/16/15	15.35	246.98	262.33							
MW08-2A		12/15/15	15.33	247.00	262.33							
MW08-2A		3/29/16	8.95	253.38	262.33							
MW08-2A		6/20/16	10.80	251.53	262.33							
MW08-2A		9/7/16	14.12	248.21	262.33							
MW08-2A		12/7/16	12.65	249.68	262.33							
MW08-2A		3/8/17	NM	NM	262.33							
MW08-2A		6/13/17	8.39	253.94	262.33							

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Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Field Measurements									
			Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
MW08-2A		9/12/17	10.78	251.55	262.33							
MW08-2A		12/4/17	9.43	252.90	262.33							
MW08-2A		3/8/18	7.87	254.46	262.33							
MW08-2A		6/15/18	8.33	254.00	262.33							
MW08-2A		9/16/18	10.89	251.44	262.33							
MW08-2A		12/16/18	10.13	252.20	262.33							
MW08-2A		3/18/19	6.99	255.34	262.33							
MW08-2A		5/10/19	7.15	255.18	262.33							
MW08-2A		9/16/19	10.67	251.66	262.33							
MW08-2A		12/16/19	9.41	252.92	262.33							
MW08-2A		3/16/20	8.13	254.20	262.33							
MW08-2A		6/14/20	8.82	253.51	262.33							
MW08-2A		9/13/20	12.95	249.38	262.33							
MW08-2A		12/13/20	13.41	248.92	262.33							
MW08-2A		3/16/21	9.80	252.53	262.33							
MW08-2A		6/20/21	11.63	250.70	262.33							
MW08-2A		9/19/21	15.67	246.66	262.33							
MW08-2A		12/12/21	13.61	248.72	262.33							
MW08-2A		3/14/22	9.90	252.43	262.33							
MW08-2A		6/12/22	11.17	251.16	262.33							
MW08-2B	262.36	9/22/09	15.00	247.36	262.36							
MW08-2B		12/15/09	14.30	248.06	262.36							
MW08-2B		3/22/10	5.43	256.93	262.36							
MW08-2B		6/22/10	8.70	253.66	262.36							
MW08-2B		9/22/10	12.09	250.27	262.36							
MW08-2B		12/13/10	7.61	254.75	262.36							
MW08-2B		3/28/11	3.87	258.49	262.36							
MW08-2B		9/13/11	10.13	252.23	262.36							
MW08-2B		3/20/12	4.45	257.91	262.36							
MW08-2B		9/24/12	12.72	249.64	262.36							
MW08-2B		3/11/13	6.37	255.99	262.36							
MW08-2B		6/24/13	10.65	251.71	262.36							
MW08-2B		9/11/13	13.91	248.45	262.36							
MW08-2B		3/4/14	9.22	253.14	262.36							
MW08-2B		6/16/14	11.25	251.11	262.36							
MW08-2B		9/17/14	15.36	247.00	262.36							
MW08-2B		12/17/14	15.16	247.20	262.36							
MW08-2B		3/23/15	7.91	254.45	262.36							
MW08-2B		6/10/15	11.39	250.97	262.36							
MW08-2B		9/16/15	15.80	246.56	262.36							
MW08-2B	continued 260.36	12/15/15	15.47	246.89	262.36							
MW08-2B		3/29/16	5.31	257.05	262.36							
MW08-2B		6/20/16	10.59	251.77	262.36							
MW08-2B		9/7/16	14.53	247.83	262.36							
MW08-2B		12/7/16	13.30	249.06	262.36							
MW08-2B		3/8/17	NM	NM	262.36							
MW08-2B		6/13/17	7.74	254.62	262.36							
MW08-2B		9/12/17	11.47	250.89	262.36							
MW08-2B		12/4/17	9.08	253.28	262.36							
MW08-2B		3/9/18	5.95	256.41	262.36							
MW08-2B		6/15/18	8.63	253.73	262.36							
MW08-2B		9/16/18	11.92	250.44	262.36							
MW08-2B		12/16/18	10.11	252.25	262.36							
MW08-2B		3/18/19	4.87	257.49	262.36							
MW08-2B		5/10/19	6.90	255.46	262.36							
MW08-2B		9/16/19	11.83	250.53	262.36							

Table 1
Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Field Measurements									
			Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
MW08-2B		12/16/19	9.26	253.10	262.36							
MW08-2B		3/16/20	7.20	255.16	262.36							
MW08-2B		6/14/20	9.32	253.04	262.36							
MW08-2B		9/13/20	13.56	248.80	262.36							
MW08-2B		12/13/20	13.24	249.12	262.36							
MW08-2B		3/16/21	7.63	254.73	262.36							
MW08-2B		6/20/21	11.92	250.44	262.36							
MW08-2B		9/19/21	15.20	247.16	262.36							
MW08-2B		12/12/21	13.37	248.99	262.36							
MW08-2B		3/14/22	7.30	255.06	262.36							
MW08-2B	6/12/22	10.88	251.48	262.36								
MW08-3	268.76	9/22/09	12.05	256.71	268.76							
MW08-3		12/15/09	8.81	259.95	268.76							
MW08-3		3/22/10	3.93	264.83	268.76							
MW08-3		6/22/10	6.95	261.81	268.76							
MW08-3		9/22/10	9.13	259.63	268.76							
MW08-3		12/13/10	4.08	264.68	268.76							
MW08-3		3/28/11	3.20	265.56	268.76							
MW08-3		9/13/11	8.85	259.91	268.76							
MW08-3		3/20/12	3.37	265.39	268.76							
MW08-3		9/24/12	10.45	258.31	268.76							
MW08-3		3/11/13	4.52	264.24	268.76							
MW08-3		6/24/13	9.13	259.63	268.76							
MW08-3		9/11/13	11.21	257.55	268.76							
MW08-3		3/4/14	5.27	263.49	268.76							
MW08-3		6/16/14	9.47	259.29	268.76							
MW08-3		9/17/14	12.80	255.96	268.76							
MW08-3		12/17/14	8.86	259.90	268.76							
MW08-3		3/23/15	6.19	262.57	268.76							
MW08-3		6/10/15	8.85	259.91	268.76							
MW08-3		9/16/15	12.89	255.87	268.76							

Table 1
Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Field Measurements									
			Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
MW08-3	continued 268.76	12/15/15	11.14	257.62	268.76							
MW08-3		3/29/16	3.73	265.03	268.76							
MW08-3		6/20/16	8.24	260.52	268.76							
MW08-3		9/7/16	11.63	257.13	268.76							
MW08-3		12/7/16	8.23	260.53	268.76							
MW08-3		3/8/17	3.25	265.51	268.76							
MW08-3		6/13/17	6.76	262.00	268.76							
MW08-3		9/12/17	9.83	258.93	268.76							
MW08-3		12/4/17	7.31	261.45	268.76							
MW08-3		3/8/18	4.06	264.70	268.76							
MW08-3		6/15/18	7.30	261.46	268.76							
MW08-3		9/16/18	10.49	258.27	268.76							
MW08-3		12/16/18	8.63	260.13	268.76							
MW08-3		3/18/19	3.32	265.44	268.76							
MW08-3		5/10/19	5.40	263.36	268.76							
MW08-3		9/16/19	10.55	258.21	268.76							
MW08-3		12/16/19	6.85	261.91	268.76							
MW08-3		3/16/20	4.61	264.15	268.76							
MW08-3		6/14/20	7.65	261.11	268.76							
MW08-3		9/13/20	10.48	258.28	268.76							
MW08-3		12/13/20	9.80	258.96	268.76							
MW08-3		3/16/21	4.72	264.04	268.76							
MW08-3		6/20/21	10.01	258.75	268.76							
MW08-3		9/19/21	12.59	256.17	268.76							
MW08-3		12/12/21	6.63	262.13	268.76							
MW08-3		3/14/22	5.22	263.54	268.76							
MW08-3		6/12/22	8.35	260.41	268.76							
MW08-4A	280.06 Deep Well	9/22/09	20.00	260.06	280.06							
MW08-4A		12/15/09	17.55	262.51	280.06							
MW08-4A		3/22/10	13.75	266.31	280.06							
MW08-4A		6/22/10	14.82	265.24	280.06							
MW08-4A		9/22/10	17.89	262.17	280.06							
MW08-4A		12/13/10	14.74	265.32	280.06							
MW08-4A		3/28/11	10.49	269.57	280.06							
MW08-4A		9/13/11	15.57	264.49	280.06							
MW08-4A		3/20/12	13.00	267.06	280.06							
MW08-4A		9/24/12	18.42	261.64	280.06							
MW08-4A		3/11/13	14.59	265.47	280.06							
MW08-4A		6/24/13	16.29	263.77	280.06							
MW08-4A		9/11/13	20.05	260.01	280.06							
MW08-4A		3/4/14	14.92	265.14	280.06							
MW08-4A		6/16/14	16.28	263.78	280.06							
MW08-4A		9/17/14	22.16	257.90	280.06							
MW08-4A		12/17/14	18.01	262.05	280.06							
MW08-4A		3/23/15	15.04	265.02	280.06							
MW08-4A		6/10/15	15.46	264.60	280.06							
MW08-4A		9/16/15	21.60	258.46	280.06							
MW08-4A		12/15/15	17.36	262.70	280.06							
MW08-4A		3/29/16	12.86	267.20	280.06							
MW08-4A		6/20/16	14.88	265.18	280.06							
MW08-4A		9/7/16	19.68	260.38	280.06							
MW08-4A		12/7/16	15.53	264.53	280.06							
MW08-4A		3/8/17	11.68	268.38	280.06							
MW08-4A		6/13/17	13.87	266.19	280.06							

Table 1
Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

			Field Measurements									
Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
MW08-4A	280.06	9/12/17	15.75	264.31	280.06							
MW08-4A		12/4/17	14.02	266.04	280.06							
MW08-4A		3/8/18	13.57	266.49	280.06							
MW08-4A		6/15/18	14.08	265.98	280.06							
MW08-4A		9/16/18	16.60	263.46	280.06							
MW08-4A		12/16/18	16.60	263.46	280.06							
MW08-4A		3/18/19	11.93	268.13	280.06							
MW08-4A		5/10/19	14.70	265.36	280.06							
MW08-4A		9/15/19	16.28	263.78	280.06							
MW08-4A		12/15/19	13.68	266.38	280.06							
MW08-4A		3/15/19	14.15	265.91	280.06							
MW08-4A		6/14/20	14.34	265.72	280.06							
MW08-4A		9/13/20	18.95	261.11	280.06							
MW08-4A		12/13/20	17.37	262.69	280.06							
MW08-4A		3/16/21	14.33	265.73	280.06							
MW08-4A		6/22/21	16.23	263.83	280.06							
MW08-4A		9/19/21	21.74	258.32	280.06							
MW08-4A		12/12/21	15.73	264.33	280.06							
MW08-4A		3/14/22	14.55	265.51	280.06							
MW08-4A		6/12/22	15.74	264.32	280.06							
MW08-4B	279.56 continued 277.56	9/22/09	18.94	260.62	279.56							
MW08-4B		12/15/09	17.09	262.47	279.56							
MW08-4B		3/22/10	13.27	266.29	279.56							
MW08-4B		6/22/10	14.34	265.22	279.56							
MW08-4B		9/22/10	17.40	262.16	279.56							
MW08-4B		12/13/10	14.26	265.30	279.56							
MW08-4B		3/28/11	10.01	269.55	279.56							
MW08-4B		9/13/11	15.09	264.47	279.56							
MW08-4B		3/20/12	12.50	267.06	279.56							
MW08-4B		9/24/12	17.93	261.63	279.56							
MW08-4B		3/11/13	14.11	265.45	279.56							
MW08-4B		6/24/13	15.81	263.75	279.56							
MW08-4B		9/11/13	18.98	260.58	279.56							
MW08-4B		3/4/14	14.45	265.11	279.56							
MW08-4B		6/16/14	15.80	263.76	279.56							
MW08-4B		9/17/14	18.97	260.59	279.56							
MW08-4B		12/17/14	17.58	261.98	279.56							
MW08-4B		3/23/15	14.57	264.99	279.56							
MW08-4B		6/10/15	14.98	264.58	279.56							
MW08-4B		9/16/15	18.93	260.63	279.56							
MW08-4B		12/15/15	16.91	262.65	279.56							
MW08-4B		3/29/16	12.41	267.15	279.56							
MW08-4B		6/20/16	14.41	265.15	279.56							
MW08-4B		9/7/16	18.92	260.64	279.56							
MW08-4B		12/7/16	15.06	264.50	279.56							
MW08-4B		3/8/17	11.19	268.37	279.56							
MW08-4B		6/13/17	13.38	266.18	279.56							
MW08-4B		9/12/17	15.23	264.33	279.56							
MW08-4B		12/4/17	13.53	266.03	279.56							
MW08-4B		3/8/18	13.09	266.47	279.56							
MW08-4B		6/15/18	14.08	265.98	280.06							
MW08-4B		9/16/18	17.42	262.64	280.06							
MW08-4B		12/16/18	16.12	263.94	280.06							
MW08-4B		3/18/19	11.46	268.10	279.56							
MW08-4B	5/10/19	13.23	266.33	279.56								

Table 1
Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

			Field Measurements									
Sample ID	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
MW08-4B	continued 277.56	9/15/19	15.80	263.76	279.56							
MW08-4B		12/15/19	13.20	266.36	279.56							
MW08-4B		3/15/19	13.65	265.91	279.56							
MW08-4B		6/14/20	13.89	265.67	279.56							
MW08-4B		9/13/20	18.45	261.11	279.56							
MW08-4B		12/13/20	16.89	262.67	279.56							
MW08-4B		3/16/21	13.84	265.72	279.56							
MW08-4B		6/22/21	15.78	263.78	279.56							
MW08-4B		9/19/21	18.96	260.60	279.56							
MW08-4B		12/12/21	15.28	264.28	279.56							
MW08-4B		3/14/22	14.09	265.47	279.56							
MW08-4B		6/12/22	15.15	264.41	279.56							
Sutter Creek Sample Points												
SC2	Five Mile	7/31/03		256.98	256.98							
SC2	Bridge	8/31/03		256.72	256.72							
SC2	281.11	9/30/03		256.56	256.56							
SC2		10/31/03		256.45	256.45							
SC2		11/30/03		257.55	257.55							
SC2		12/31/03		258.00	258.00							
SC2		1/31/04		257.64	257.64							
SC2		2/20/04		258.45	258.45							
SC2		3/31/04		257.42	257.42							
SC2		5/2/04		257.76	257.76							
SC2		6/1/04		257.61	257.61							
SC2		6/30/04		257.29	257.29							
SC2		7/31/04		256.79	256.79							
SC2		9/4/04		256.28	256.28							
SC2		10/1/04		255.95	255.95							

Table 1

			Field Measurements										
	MP Elevation	Date	Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS	
Sample ID													
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered	
Practical Quantitation Limit													
Minimum Detection Limit													
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L	
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700				
SC4	Utility Bridge 278.35	6/28/03		258.70	258.70								
SC4		7/31/03		258.87	258.87								
SC4		8/31/03		258.69	258.69								
SC4		9/30/03		258.25	258.25								
SC4		10/31/03		258.79	258.79								
SC4		11/30/03		259.04	259.04								
SC4		12/31/03		260.32	260.32								
SC4	continued 278.35	1/31/04		259.86	259.86								
SC4		2/20/04		258.73	258.73								
SC4		3/31/04		261.10	261.10								
SC4		5/2/04		259.40	259.40								
SC4		6/1/04		258.98	258.98								
SC4		6/30/04		258.90	258.90								
SC4		7/31/04		259.32	259.32								
SC4		9/4/04		259.02	259.02								
SC4		10/1/04		258.83	258.83								
SC4		10/4/05											
SC4		9/6/06											
SC4		6/29/07											
SC4		12/29/08											
SC4		3/12/09						12.1	7.56	231	10.52		
SC4		6/16/09	19.72	258.63	258.63			24.4	7.12	426	12.37		
SC4		9/23/09						19.6	7.26	451	6.07	5.2	293
SC4		12/16/09											
SC4		3/22/10	18.92	259.43	259.43			16.37	8.60	313	11.97	122.3	205
SC4		6/22/10	19.49	258.86	258.86	19.49	25.97	7.45	330	6.91	60.5	0.215	
SC4		9/22/10						18.46	7.26	432	6.24	148.5	281
SC4		12/13/10						12.15	7.82	256	13.84	63.8	166
SC4		3/28/11	16.42	261.93	261.93			12.96	6.87	151	11.14	-123.3	98
SC4		6/22/11						25.11	7.80	224	8.14	68.6	145
SC4		9/13/11						23.03	7.61	304	8.47	68.4	197
SC4		12/14/11						6.83	6.22	248	12.43	-30.0	167
SC4		3/22/12						13.19	5.61	199	8.83	129.9	129
SC4	6/25/12						20.28	7.57	286	9.27	204.5	186	
SC4	9/25/12						21.28	7.40	351	14.93	15.4	227	
SC4	12/18/12						9.33	7.79	179	11.48	50.9	115	
SC4	3/11/13						13.43	7.38	248	9.41	71.9	161	
SC4	6/27/13						27.81	7.83	349	5.17	166.9	226	
SC4+		8/28/07											
SC4+		10/30/08											
SC6		10/14/04											
SC6		10/4/05											
SC6		6/29/07											
SC6		8/28/07											
SC6		10/30/08											

Table 1
Historical Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Field Measurements									
			Depth to Water	Groundwater Elevation	Top of Casing Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Field TDS
Analysis Method:			Probe	Calculated	Surveyed	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Practical Quantitation Limit												
Minimum Detection Limit												
Units:			ft	ft. msl	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				0.00				6.5-8.4	700			
Water Wells												
Scully Well #1		1/20/06										
Scully Well #1		6/1/06										
Scully Well #1		9/19/06										
Scully Well #1		12/12/06										
Scully Well #1		3/23/07										
Scully Well #1		6/26/07										
Scully Well #1		9/28/07										
Scully Well #1*		3/22/10	Not Measured			724.5	17.15	6.8	535	1.20	-0.1	
Scully Well #2		1/20/06										
Scully Well #2*		3/22/10	Not Measured			870	17	6.62	433	1.15	41.4	
Sparrowk Well		1/20/06										

Notes:

Negative (-) values indicate less than the detection limit

P-3 TOC elevation is ground surface.

¹ The Nitrate-N tabulation column includes analyses results for Nitrate-N +Nitrite-N.

* March 22, 2010 metals results for dissolved constituents

() MW4A well collar was modified in Summer 2010. Hydrograph indicates collar is less than 0.1 foot lower than originally surveyed.

^ Total Nitrogen starting 4th Quarter 2013 is Laboratory Calculated (annually).

~ Condor's Calculation.



Green shaded cells indicate questionable or qualified analyses (e.g. exceeded hold time)

Blue shaded cells indicate estimated value detected above minimum detection level but below practical quantitation limit.

Yellow shaded cells indicate estimated value detected above 2nd MCLs or Ag-use threshold

Table 2
Historical Quarterly Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

			Laboratory Analyses																	
Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
Analysis Method:			SM 9221 B	SM 9221 E	EPA 300.0	EPA 351.2	EPA 350.1	Calc	EPA 160.1	EPA 300.0	EPA 200.7	EPA 200.7	EPA 206.2	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7
Practical Quantitation Limit					0.10	0.20	0.10	0.30	10-20	0.50	0.5	0.5	0.050	0.050	0.10	0.10	0.05	0.050	0.010	0.010
Minimum Detection Limit					0.022	0.056	0.025	0.10	10-20	0.059	0.07	0.12	0.008	0.0092	0.012	0.0097	0.017	0.030	0.0025	0.0040
Units:			MPN/100ml	MPN/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)			2.2	2.2	10		1.5		450	106		69	0.010	0.010		0.7	0.3	0.3	0.05	0.05
Background Wells																				
MW1	274.17	7/16/02	23	-2	2.40	3.8		6.2	190	6.3	10.0						0.160		-0.030	
MW1		9/18/02																		
MW1		10/29/02																		
MW1		11/22/02																		
MW1		12/31/02																		
MW1		1/21/03																		
MW1		6/30/03	-2	-2	0.55	-1.0		1.1	162	6.6	8.7				-0.01		0.81		0.020	
MW1		7/31/03																		
MW1		8/31/03																		
MW1		9/30/03	-2	-2	0.51	-1.0		1.0	143	6.7	8.2				-0.10		1.12		0.040	
MW1		10/31/03																		
MW1		11/30/03																		
MW1		12/31/03	-2	-2	0.74	-1.0		1.2	170	8.5	8.6				-0.10		0.09		-0.020	
MW1		1/31/04																		
MW1		2/20/04																		
MW1		3/31/04	23	-2	1.70	-1.0		2.2	217	8.4	9.2				-0.10		-0.05		-0.020	
MW1		5/2/04																		
MW1		6/1/04																		
MW1		6/30/04	-2	-2	1.20	-1.0		1.7	187	7.2	8.8				-0.10		0.31		-0.020	
MW1		7/31/04																		
MW1		9/4/04																		
MW1		10/1/04	-2	-2	0.82	3.4		4.2	273	9.9	14.0				0.10		41.50		0.870	
MW1		10/12/04	-2	-2	1.20	-1.0		1.7	213	8.3	9.2				-0.10		4.72		0.100	
MW1		1/4/05	-2	-2	1.50	-1.0		2.0	196	9.8	9.6		-0.002		-0.10		1.01		-0.020	
MW1		4/1/05	-2	-2	2.70	-1.0		3.2	210	8.9	9.2		-0.002		-0.10		0.24		-0.020	
MW1		6/30/05	-2	-2	3.00	-1.0		3.5	191	8.1	9.0		-0.002		0.05		0.08		-0.020	
MW1		10/6/05																		
MW1		10/11/05	-2	-2	1.30	-1.0		1.8	175	7.0	9.9		-0.002		-0.05		0.13		-0.020	
MW1	1/17/06																			
MW1	2/9/06	-2	-2	2.00	-1.0		2.5	158	9.0	10.7		-0.001		0.09		0.06		-0.020		

Table 2
Historical Quarterly Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

			Laboratory Analyses																	
Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
Analysis Method:			SM 9221 B	SM 9221 E	EPA 300.0	EPA 351.2	EPA 350.1	Calc	EPA 160.1	EPA 300.0	EPA 200.7	EPA 200.7	EPA 206.2	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7
Practical Quantitation Limit					0.10	0.20	0.10	0.30	10-20	0.50	0.5	0.5	0.050	0.050	0.10	0.10	0.05	0.050	0.010	0.010
Minimum Detection Limit					0.022	0.056	0.025	0.10	10-20	0.059	0.07	0.12	0.008	0.0092	0.012	0.0097	0.017	0.030	0.0025	0.0040
Units:			MPN/100ml	MPN/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)			2.2	2.2	10		1.5		450	106		69	0.010	0.010		0.7	0.3	0.3	0.05	0.05
MW1	Continued 274.17	3/10/06																		
MW1		4/29/06																		
MW1		5/23/06	2	-2	3.80	-1.0		4.3	215	7.2	9.5		-0.002		-0.05		0.32		-0.020	
MW1		6/30/06																		
MW1		7/25/06																		
MW1		8/24/06	-2	-2	2.20	-1.0		2.7	239	8.0	11.0		-0.002		0.05		0.83		0.036	
MW1		9/29/06																		
MW1		10/24/06																		
MW1		11/30/06																		
MW1		12/12/06	30	-2	0.99	-1.0		1.5	165	6.8	9.5		-0.002		0.06		0.310		0.020	
MW1		12/29/06																		
MW1		1/31/07																		
MW1		2/27/07																		
MW1		3/13/07	-2		0.81	-1.0		1.3	185	7.5	8.4		-0.002		0.06		0.130		-0.020	
MW1		3/30/07																		
MW1		4/30/07																		
MW1		5/31/07																		
MW1		6/25/07	2		0.84	-1.0		1.3	168	6.3	8.9		-0.002		0.06		0.036		-0.005	
MW1		7/29/07																		
MW1		8/30/07																		
MW1		9/27/07	-2	-2	0.99	-1.0		1.5	156	6.7	9.8		-0.002		-0.05		0.170	-0.020	0.007	-0.005
MW1		12/27/07	-2	-2	0.84	-1.0		1.3	232	10.0	9.8		-0.002		0.05		1.90	-0.020	0.077	-0.005
MW1		2/2/08																		
MW1		3/2/08																		
MW1		7/7/08	-2	-2	0.66	-1.0		1.2	170	8.8	8.9		-0.002		0.068		0.620	-0.020	0.017	-0.005
MW1		10/10/08	-2	-2	0.93	-1.0		1.4	186	9.3	8.5		-0.002		0.06		0.325	-0.020	0.0097	-0.005
MW1	11/5/08																			
MW1	12/29/08	-1.1		0.93	-0.20		1.0	210	13	11		-0.050		0.059		1.60	0.031	0.046	0.0025	
MW1	3/11/09	-1.1		0.86	0.071		0.9	200	8.9	9.9		0.0083		0.046		0.420	-0.050	0.013	-0.010	
MW1	6/16/09	-2	-2	0.98	-0.20		1.1	190	8.2	10		-0.050		0.057		0.30	-0.050	0.0068	0.011	
MW1	9/22/09	-2	-2	1.0	-0.20		1.1	160	6.5		9.0				0.065		0.022		0.011	

Table 2
Historical Quarterly Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

			Laboratory Analyses																	
Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
Analysis Method:			SM 9221 B	SM 9221 E	EPA 300.0	EPA 351.2	EPA 350.1	Calc	EPA 160.1	EPA 300.0	EPA 200.7	EPA 200.7	EPA 206.2	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7
Practical Quantitation Limit					0.10	0.20	0.10	0.30	10-20	0.50	0.5	0.5	0.050	0.050	0.10	0.10	0.05	0.050	0.010	0.010
Minimum Detection Limit					0.022	0.056	0.025	0.10	10-20	0.059	0.07	0.12	0.008	0.0092	0.012	0.0097	0.017	0.030	0.0025	0.0040
Units:			MPN/100ml	MPN/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)			2.2	2.2	10		1.5		450	106		69	0.010	0.010		0.7	0.3	0.3	0.05	0.05
MW1	Continued 274.17	12/15/09	-2	-2	1.1	0.11		1.2	150	6.9		8.3				0.054		-0.0093		-0.010
MW1		3/22/10	2.0	-2	1.2	1.80		3.0	190	7.6		10				0.052		0.0095		0.028
MW1		6/22/10	-2	-2	1.3	-0.056		1.3	200	6.1		7.5				0.055		-0.005		0.023
MW1		9/22/10	-2	-2	0.86	-0.056		0.9	210	5.6		9.1				0.063		-0.005		-0.001
MW1		12/13/10	-2	-2	0.61	-0.056		0.6	160	6.2		9.3				0.060		-0.005		-0.001
MW1		3/29/11	-2	-2	1.8	0.088		1.9	190	6.3		10				0.060		-0.005		-0.001
MW1		6/22/11	-2	-2	2.9	-0.056		2.9	200	6.6		9.9				0.057		-0.005		-0.001
MW1		9/13/11	-2		1.0	-0.056		1.0	160	6.5		9.7				0.060		0.012		-0.001
MW1		12/14/11	-2	-2	0.54	-0.056		0.6	160	6.5		9.4				0.056		0.012		-0.001
MW1		3/21/12	-2		0.58	-0.056		0.6	160	7.2		9.0				0.058		-0.005		-0.001
MW1		6/26/12	-2	-2	1.0	-0.056		1.0	160	6.5		9.0				0.065		0.0091		0.0020
MW1		9/27/12	-2		0.65	-0.056		0.7	180	6.5		8.7				0.055		-0.0050		0.0021
MW1		12/19/12	-2		0.58	-0.083		0.6	150	5.7		8.3				0.049		0.0050		-0.0010
MW1		3/11/13	-2		1.50	-0.083		1.5	190	7.2		9.5				0.051		-0.030		-0.0040
MW1		6/27/13	-2		0.66	-0.083		0.7	170	6.5		8.6				0.051		-0.030		-0.0040
MW1		9/12/13	-2		0.69		0.022	0.7	180									0.140		0.0088
MW1		12/11/13	-2		0.79	-0.053	-0.017	0.83^	150	7.6		8.4		-0.0092		0.053		0.340		0.140
MW1		3/4/14	4		1.50		0.019	~1.5	200									0.072		0.019
MW1		6/17/14	-2		0.91		-0.033	~0.9	230									-0.030		-0.0040
MW1		9/18/14	-2		0.87		-0.033	~0.9	180									0.047		-0.0040
MW1		12/18/14	130		1.9	0.056	-0.033	2.0^	180	9.5		9.1		-0.0092		0.048		-0.030		-0.0040
MW1		3/24/15	-2		1.9		-0.033	~1.9	220									-0.030		-0.0040
MW1		6/11/15	-2		1.2		-0.025	~1.2	220									-0.030		-0.0040
MW1		9/17/15	-2		1.0		-0.025	~1.0	220									-0.030		0.014
MW1		12/16/15	-1.8		2.2	-0.080	-0.025	2.2^	250	30		10		0.00040		0.047		0.140		0.0059
MW1		3/29/16	-1.8		1.8		-0.025	~1.8	230									-0.030		-0.0040
MW1		6/21/16	-1.8		2.0		-0.025	~2.0	210									-0.030		-0.0040
MW1		9/8/16	-1.8		0.80		-0.025	~0.8	210									-0.030		-0.0040
MW1		12/8/16	-1.8		1.2	0.60	0.032	1.8^	200	10		13		-0.00038		0.061		-0.030		0.0064

Table 2
Historical Quarterly Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

			Laboratory Analyses																		
Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	
Analysis Method:			SM 9221 B	SM 9221 E	EPA 300.0	EPA 351.2	EPA 350.1	Calc	EPA 160.1	EPA 300.0	EPA 200.7	EPA 200.7	EPA 206.2	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	
Practical Quantitation Limit					0.10	0.20	0.10	0.30	10-20	0.50	0.5	0.5	0.050	0.050	0.10	0.10	0.05	0.050	0.010	0.010	
Minimum Detection Limit					0.022	0.056	0.025	0.10	10-20	0.059	0.07	0.12	0.008	0.0092	0.012	0.0097	0.017	0.030	0.0025	0.0040	
Units:			MPN/100ml	MPN/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
MCL (2nd MCL or Ag-use threshold if shaded)			2.2	2.2	10		1.5		450	106		69	0.010	0.010		0.7	0.3	0.3	0.05	0.05	
MW1		3/9/17	-1.8		3.5		-0.020	~3.5	250									0.110		0.022	
MW1		6/14/17	-1.8		5.9		-0.020	~5.9	250									-0.030		-0.0040	
MW1		9/13/17	-1.8		1.2		-0.020	~1.2	200									-0.030		-0.0040	
MW1		12/5/17	70		0.64	-0.084	0.11	0.64^	160									-0.030		-0.0040	
MW1		3/9/18	15		0.56		0.042	0.56^	200									-0.030		0.00038	
MW1		6/15/18	4	4	1.50		-0.018	1.50^	220									-0.030		0.00380	
MW1		9/17/18	21		0.52		0.066	1.6^	170									-0.030		0.0057	
MW1		12/17/18	130		0.53	0.23	0.13	0.76^	160	7.4		8.6		-0.00038		0.038		-0.030		0.0028	
MW1		3/18/19	21		1.1		0.071	1.2^	170									-0.030		0.0032	
MW1		5/13/19	49		2.0		<0.067	2.0^	220										0.76	0.0020	
MW1		9/16/19	920		0.52		<0.067	0.52^	160									-0.030		0.0061	
MW1		12/16/19	220		0.30	0.23	<0.067	0.53^	160	6.8		9.3		-0.00038		0.049		-0.030		0.0022	
MW1		3/16/20	920		0.38		<0.067	0.38^	150										0.046		0.0012
MW1		6/16/20	17		0.67		0.087	0.75^	160										<0.030		0.0023
MW1		9/14/20	40		0.45		<0.067	0.45^	160										<0.030		0.0051
MW1		12/15/20	24		0.79		0.12	1.1^	180	13.0		9.4		0.00094		0.059		<0.030		0.0019	
MW1		3/16/21	<1.8		0.70		<0.067	1.1^	180										<0.030		0.0024
MW1		6/22/21	<1.8		0.51		0.097	0.6^	190										<0.030		0.0017
MW1		9/21/21	540		0.44		0.14	0.6^	200										<0.030		0.0032
MW1		12/14/21	1600		0.94	0.25	0.21	1.2^	170	9.0		9.5		-0.00038		0.044		<0.030		0.0015	
MW1	3/15/22	40		1.10		0.075	1.2^	190										<0.030		0.0015	
MW1	6/15/22	2.0		0.54		0.092	0.63^	180										<0.030		0.00069	
MW1A	274.09	8/30/07																			
MW1A		9/24/07																			
MW1A		10/31/07																			
MW1A		11/29/07																			
MW1A		12/27/07	-2	-2	1.40	-1.0		1.9	301	29	25		-0.002		0.10		1.10	-0.020	0.070	0.014	
MW1A		2/2/08																			
MW1A		3/2/08																			
MW1A		7/7/08	-2	-2	7.70	-1.0		8.2	283	16	19		-0.002		0.08		0.380	-0.020	0.015	-0.005	
MW1A		10/10/08	-2	-2	1.60	-1.0		2.1	297	44	26		0.0022		0.11		6.31	-0.020	0.310	-0.005	
MW1A		11/5/08																			
MW1A		12/29/08	2.2		3.20	0.098		3.3	290	28	27		-0.050		0.110		0.630	-0.072	0.033	0.00085	
MW1A		3/11/09	> 1.1		3.90	0.08		4.0	270	14	19		0.0091		0.082		0.130	-0.050	0.015	-0.010	
MW1A		6/16/09	-2	-2	3.0	-0.20		3.1	210	9.4	15		-0.050		0.078		0.049	-0.050	0.0038	-0.0025	
MW1A		9/22/09	-2	-2	3.5	6.30		9.8	290	30		20				0.100		-0.0093		0.016	
MW1A		12/15/09	2	-2	3.1	0.18		3.3	250	36		26				0.110		-0.0093		-0.010	
MW1A		3/22/10	-2	-2	2.8	-0.20		2.9	250	13		18				0.078		-0.0093		0.0093	
MW1A	6/22/10	-2	-2	3.8	-0.056		3.8	250	11		12				0.072		0.018		0.035		
MW1A	9/22/10	-2	-2	3.5	-0.056		3.5	290	18		15				0.082		0.010		0.027		
MW1A	12/13/10	-2	-2	2.3	-0.056		2.3	250	22		16				0.086		-0.005		0.016		

Table 2
Historical Quarterly Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

			Laboratory Analyses																		
Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	
Analysis Method:			SM 9221 B	SM 9221 E	EPA 300.0	EPA 351.2	EPA 350.1	Calc	EPA 160.1	EPA 300.0	EPA 200.7	EPA 200.7	EPA 206.2	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	
Practical Quantitation Limit					0.10	0.20	0.10	0.30	10-20	0.50	0.5	0.5	0.050	0.050	0.10	0.10	0.05	0.050	0.010	0.010	
Minimum Detection Limit					0.022	0.056	0.025	0.10	10-20	0.059	0.07	0.12	0.008	0.0092	0.012	0.0097	0.017	0.030	0.0025	0.0040	
Units:			MPN/100ml	MPN/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
MCL (2nd MCL or Ag-use threshold if shaded)			2.2	2.2	10		1.5		450	106		69	0.010	0.010		0.7	0.3	0.3	0.05	0.05	
MW1A	Continued 274.09	3/29/11	-2	-2	3.7	0.075		3.8	230	9.0		13				0.080		0.051		0.061	
MW1A		6/22/11	-2	-2	1.6	-0.056		1.6	260	27		18				0.088		0.027		0.045	
MW1A		9/13/11	-2		2.7	0.061		2.8	220	15		14				0.072		0.023		0.0088	
MW1A		12/14/11	-2	-2	2.5	-0.056		2.5	220	8.8		12				0.067		0.015		0.014	
MW1A		3/21/12	-2		1.6	-0.056		1.6	200	9.7		11				0.067		0.0057		0.011	
MW1A		6/26/12	-2	-2	1.2	-0.056		1.2	210	19		14				0.075		0.018		0.016	
MW1A		9/27/12	2.0		0.99	-0.056		1.0	220	28		14				0.073		0.0096		0.024	
MW1A		12/19/12	-2		0.45	-0.083		0.5	230	35		20				0.080		0.0062		0.0079	
MW1A		3/11/13	-2		1.1	-0.083		1.1	210	13		14				0.070		-0.030		0.0094	
MW1A		6/27/13	-2		1.5	0.098		1.6	180	9.0		11				0.060		-0.030		0.0040	
MW1A		9/12/13	-2		1.6		-0.017	1.6	200									0.097		0.016	
MW1A		12/12/13	-2		1.4	-0.053	-0.017	1.4^	210	12		12			-0.0092		0.066		-0.030		0.0061
MW1A		3/4/14	4		2.7		0.021	~2.7	210										-0.030		0.0076
MW1A		6/17/14	-2		4.1		-0.033	~4.1	270										0.039		-0.0040
MW1A		9/18/14	-2		2.5		-0.033	~2.5	240										0.039		0.0071
MW1A		12/18/14	4.0		3.7	0.18	-0.033	3.9^	330	40		25			-0.0092		0.110		-0.030		-0.0040
MW1A		3/24/15	-2		4.8		-0.033	~4.8	280										-0.030		-0.0040
MW1A		6/11/15	2.0		5.8		-0.025	~5.8	310										-0.030		-0.0040
MW1A		9/17/15	-2		3.4		-0.025	~3.4	290										-0.030		-0.0040
MW1A		12/16/15	17		2.0	-0.080	-0.025	2.0^	310	60		24			0.00044		0.110		0.042		-0.0040
MW1A		3/29/16	280		5.6		-0.025	~5.6	270										-0.030		-0.0040
MW1A		6/21/16	-1.8		2.3		-0.025	~2.3	270										-0.030		-0.0040
MW1A		9/8/16	-1.8		0.79		0.025	~0.8	300										-0.030		-0.0040
MW1A		12/8/16	-1.8		0.33	-0.088	0.029	0.41^	330	56		33			-0.00038		0.130		-0.030		-0.0040
MW1A		3/9/17	49		8.30		-0.020	~8.3	300										-0.030		-0.0040
MW1A		6/14/17	-1.8		6.0		0.041	~6.0	280										-0.030		0.0049
MW1A		9/13/17	-1.8		8.8		0.028	~8.8	270										-0.030		-0.0040
MW1A		12/5/17	110		15	0.14	0.036	15^	310										-0.030		-0.0040
MW1A		3/9/18	10		12		0.14	12^	310										-0.030		0.00041
MW1A		6/15/18	130		1.2		-0.02	1.2^	290										-0.030		0.00068
MW1A		9/17/18	2.0		0.058		0.072	0.1^	300										-0.030		0.0069
MW1A		12/17/18	1600		2.4	0.21	0.068	2.6^	270	34		32			-0.00038		0.10		-0.030		0.0036
MW1A		3/18/19	130		3.0		0.11	3.1^	220										-0.030		0.0034
MW1A		5/13/19	2.0		2.8		0.11	2.9^	230										0.032		0.0043
MW1A		9/16/19	920		7.2		-0.067	7.2^	290										-0.030		0.0044
MW1A		12/16/19	920		6.0	0.32	-0.067	6.4^	270	39		30			-0.0038		0.10		-0.030		0.0034
MW1A		3/16/20	110		7.6		-0.067	7.6^	290										0.032		0.0056
MW1A		6/16/20	9.2		3.9		0.093	4.0^	250										0.035		0.012
MW1A		9/14/20	540		5.9		-0.067	5.9^	250										-0.030		0.0037
MW1A		12/15/20	170		3.5		0.12	3.6^	280	40		26			-0.0038		0.085		-0.030		0.0078
MW1A		3/17/21	2.0		3.5		-0.067	3.6^	330										-0.030		0.0055
MW1A		6/22/21	4.5		4.0		0.096	4.1^	310										-0.030		0.0012
MW1A		9/21/21	240		2.8		0.160	3.0^	320										-0.030		0.0021
MW1A		12/14/21	540		1.9	0.20	-0.067	2.1^	200	16		19			-0.0038		0.078		-0.030		0.0071
MW1A		3/15/22	49		1.4		-0.067	1.4^	200										-0.030		0.0052
MW1A		6/15/22	49		1.8		0.084	1.9^	220										-0.030		0.029

Table 2
Historical Quarterly Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Laboratory Analyses																		
			Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	
Analysis Method:			SM 9221 B	SM 9221 E	EPA 300.0	EPA 351.2	EPA 350.1	Calc	EPA 160.1	EPA 300.0	EPA 200.7	EPA 200.7	EPA 200.2	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7		
Practical Quantitation Limit					0.10	0.20	0.10	0.30	10-20	0.50	0.5	0.5	0.050	0.050	0.10	0.10	0.05	0.050	0.010	0.010	
Minimum Detection Limit					0.022	0.056	0.025	0.10	10-20	0.059	0.07	0.12	0.008	0.0092	0.012	0.0097	0.017	0.030	0.0025	0.0040	
Units:			MPN/100ml	MPN/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
MCL (2nd MCL or Ag-use threshold if shaded)			2.2	2.2	10		1.5		450	106		69	0.010	0.010		0.7	0.3	0.3	0.05	0.05	
WWTP Wells																					
MW2	272.37	7/16/02	4	-2	-0.50	1.3		1.6	280	31	45						0.20		4.00		
MW2		9/18/02																			
MW2		10/29/02																			
MW2		11/22/02																			
MW2		12/31/02																			
MW2		1/21/03																			
MW2		6/30/03	-2	-2	-0.05	2.0		2.0	199	32	36				0.01		4.63		3.66		
MW2		7/31/03																			
MW2		8/31/03																			
MW2		9/30/03	-2	-2	-0.05	1.4		1.4	268	32	36				0.26		3.99		3.71		
MW2		10/31/03																			
MW2		11/30/03																			
MW2		12/31/03	13	-2	-0.05	1.8		1.8	262	32	36				0.22		3.32		4.22		
MW2		1/31/04																			
MW2		2/20/04																			
MW2		3/31/04	-2	-2	-0.05	2.0		2.0	304	35	38				0.21		3.06		4.74		
MW2		5/2/04																			
MW2		6/1/04																			
MW2		6/30/04	2	-2	-0.05	2.0		2.0	341	34	39				0.25		3.51		4.57		
MW2		7/31/04																			
MW2		9/4/04																			
MW2		10/1/04	50	-2	-0.05	2.0		2.0	297	36	40				0.26		3.62		5.20		
MW2		10/12/04	8	-2																	
MW2		1/4/05	50	4	-0.05	2.0		2.0	293	36	39		0.0073		0.23		3.27		4.16		
MW2		4/1/05	220	57	-0.05	1.9		1.9	249	34	33		0.0046		0.20		2.70		3.66		
MW2		6/30/05	-2	-2	-0.05	1.8		1.8	240	30	31		0.0051		0.20		2.52		2.90		
MW2		10/6/05																			
MW2		10/14/05	-2	-2	-0.05	1.8		1.8	247	34	36		0.0061		0.22		2.37		2.82		
MW2	1/17/06																				
MW2	2/10/06	-2	-2	-0.05	1.9		1.9	228	34	34		0.005		0.26		1.91		2.26			
MW2	3/10/06																				
MW2	4/29/06																				
MW2	5/23/06	17	-2	-0.05	1.8		1.8	206	27	29		0.0055		0.17		2.02		2.53			

Table 2
Historical Quarterly Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Laboratory Analyses																	
			Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
Analysis Method:			SM 9221 B	SM 9221 E	EPA 300.0	EPA 351.2	EPA 350.1	Calc	EPA 160.1	EPA 300.0	EPA 200.7	EPA 200.7	EPA 206.2	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	
Practical Quantitation Limit					0.10	0.20	0.10	0.30	10-20	0.50	0.5	0.5	0.050	0.050	0.10	0.10	0.05	0.050	0.010	0.010
Minimum Detection Limit					0.022	0.056	0.025	0.10	10-20	0.059	0.07	0.12	0.008	0.0092	0.012	0.0097	0.017	0.030	0.0025	0.0040
Units:			MPN/100ml	MPN/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)			2.2	2.2	10		1.5		450	106		69	0.010	0.010		0.7	0.3	0.3	0.05	0.05
MW2	Continued 272.37	6/30/06																		
MW2		7/25/06																		
MW2		8/24/06	-2	-2	-0.05	1.7		1.7	223	25	32		0.0057		0.15		1.90		2.40	
MW2		9/29/06																		
MW2		10/24/06																		
MW2		11/30/06																		
MW2		12/12/06	-2	-2	-0.05	2.6		2.6	219	29	34		0.0064		0.22		2.10		2.90	
MW2		12/29/06																		
MW2		1/31/07																		
MW2		2/27/07																		
MW2		3/13/07	8		-0.05	2.0		2.0	196	33	33		0.0053		0.19		1.80		2.60	
MW2		3/30/07																		
MW2		4/30/07																		
MW2		5/31/07																		
MW2		6/25/07	-2		-0.05	1.7		1.7	218	30	31		0.0042		0.17		1.63		2.25	
MW2		7/29/07																		
MW2		8/30/07																		
MW2		9/27/07	-2	-2	-0.05	1.7		1.7	258	30	36		0.0064		0.16		1.90	1.40	2.70	2.60
MW2		10/31/07																		
MW2		11/29/07																		
MW2		12/26/07	2	-2	-0.05	2.2		2.2	349	35	40		0.0065		0.19		2.50	2.10	4.20	4.10
MW2		2/2/08																		
MW2		3/2/08																		
MW2		7/7/08	-2	-2	-0.05	2.4		2.4	289	34	39		0.0067		0.15		2.80	2.20	3.00	3.30
MW2	10/10/08	13	-2	-0.05	2.7		2.7	279	41	36		0.005		0.17		2.14	1.97	3.93	4.05	
MW2	11/5/08																			
MW2	12/30/08	13	4	0.048	2.6		2.6	270	40	44		0.013		0.21		3.10	2.60	4.90	4.20	
MW2	3/12/09	> 1.1		-0.10	2.5		2.6	260	42	41		0.011		0.210		2.60	0.32	5.000	3.90	
MW2	6/16/09	-2	-2	0.055	3.2		3.3	260	39	42		0.033		0.19		69	0.025	5.10	3.10	
MW2	9/22/09	-2	-2	-0.1	3.1		3.2	260	41		39				0.210		2.30		4.40	
MW2	12/15/09	240	11	-0.1	2.7		2.8	260	43		37				0.220		2.30		3.90	
MW2	3/22/10	50	4.0	-0.1	2.6		2.7	250	46		41				0.210		2.10		3.10	
MW2	6/22/10	-2	-2	-0.014	2.6		2.6	270	52		37				0.190		2.20		3.30	
MW2	9/22/10	-2	-2	0.035	3.1		3.1	320	43		41				0.200		2.20		4.50	

Table 2
Historical Quarterly Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

			Laboratory Analyses																	
			Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
Sample ID	MP Elevation	Date																		
Analysis Method:			SM 9221 B	SM 9221 E	EPA 300.0	EPA 351.2	EPA 350.1	Cate	EPA 160.1	EPA 300.0	EPA 200.7	EPA 200.7	EPA 200.2	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7
Practical Quantitation Limit					0.10	0.20	0.10	0.30	10-20	0.50	0.5	0.5	0.050	0.050	0.10	0.10	0.05	0.050	0.010	0.010
Minimum Detection Limit					0.022	0.056	0.025	0.10	10-20	0.059	0.07	0.12	0.008	0.0092	0.012	0.0097	0.017	0.030	0.0025	0.0040
Units:			MPN/100ml	MPN/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)			2.2	2.2	10		1.5		450	106		69	0.010	0.010		0.7	0.3	0.3	0.05	0.05
MW2	continued 272.37	12/13/10	4	2	-0.014	3.2		3.2	260	41		43				0.220		2.30		4.10
MW2		3/29/11	130		0.05	2.7		2.8	270	35		43				0.200		2.00		4.70
MW2		6/23/11	-2		-0.014	2.8		2.8	270	40		42				0.170		2.20		4.30
MW2		9/14/11	-2		-0.021	3.2		3.2	300	39		46				0.200		2.30		4.60
MW2		12/14/11	-2	-2	-0.021	3.0		3.0	270	37		44				0.200		2.30		4.00
MW2		3/21/12	240		0.067	3.0		3.1	270	36		43				0.180		2.00		4.50
MW2		6/26/12	-2	-2	-0.021	3.2		3.2	280	40		44				0.180		2.10		3.30
MW2		9/27/12	50		-0.021	2.7		2.7	260	43		43				0.160		2.50		3.10
MW2		12/19/12	20		-0.021	2.9		2.9	270	42		44				0.180		2.40		5.20
MW2		3/11/13	-2		-0.021	3.1		3.1	270	44		48				0.180		2.80		4.70
MW2		6/26/13	-2		-0.025	3.1		3.1	300	52		44				0.160		3.20		4.70
MW2		9/11/13	-2		-0.025		3.2	3.2	320									3.00		5.00
MW2		12/11/13	2.0		-0.025	3.2	3.0	3.2^	300	53		45		-0.0092		0.170		2.90		4.90
MW2		3/5/14	-2		-0.025		3.2	~3.2	290									2.80		4.00
MW2		4/9/14							290									2.40		4.90
MW2		5/5/14							300									2.50		4.30
MW2		6/17/14	-2		-0.025		2.6	~2.6	290									2.60		3.10
MW2		7/16/14							300									2.70		4.50
MW2		8/20/14							370									2.60		3.60
MW2		9/18/14	7.0		-0.025		2.8	~2.8	280									2.80		3.40
MW2		10/30/14							290									2.40		3.10
MW2		11/21/14							290									2.60		3.40
MW2		12/18/14	130		-0.018	2.8	2.9	2.8^	300	47		45		-0.0092		0.160		2.50		4.20
MW2		3/24/15	-2		-0.018		2.2	~2.2	280									2.40		3.60
MW2		6/11/15	2		0.047		2.8	~2.8	290									2.40		3.50
MW2		9/17/15	-2		-0.018		2.5	~2.5	280									2.40		3.40
MW2		12/15/15	-1.8		-0.018	2.3	2.4	2.3^	300	45		39		0.0065		0.160		2.30		2.80
MW2		3/29/16	-1.8		-0.022		2.8	~2.8	280									2.10		3.10
MW2		6/20/16	-1.8		-0.022	2.5	2.7	2.5^	270									2.20		2.70
MW2		9/7/16	-1.8		0.042		2.4	~2.4	260									2.30		2.80
MW2		12/8/16	-1.8		-0.022	2.6	2.5	2.6^	310	47		48		0.0067		0.200		2.80		3.30
MW2		3/10/17	2.0		-0.022		3.7	~3.7	290									2.80		5.40
MW2		6/13/17	-1.8		-0.021		3.2	~3.2	250									2.50		4.40
MW2		9/13/17	-1.8		-0.021		3.2	~3.2	260									2.00		3.70
MW2		12/6/17	-1.8		-0.021	3.0	2.9	3.0^	270									1.90		3.10
MW2		3/9/18	9		-0.021		2.9	~2.9	280									-0.03		2.4
MW2		6/15/18	920	920	-0.021		3.0	~3.0	280									-0.03		3.2
MW2		9/17/18	49		-0.021		3.6	~3.6	290									0.046		3.7

Table 2
Historical Quarterly Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

			Laboratory Analyses																	
Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
Analysis Method:			SM 9221 B	SM 9221 E	EPA 300.0	EPA 351.2	EPA 350.1	Calc	EPA 160.1	EPA 300.0	EPA 200.7	EPA 200.7	EPA 206.2	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7
Practical Quantitation Limit					0.10	0.20	0.10	0.30	10-20	0.50	0.5	0.5	0.050	0.050	0.10	0.10	0.05	0.050	0.010	0.010
Minimum Detection Limit					0.022	0.056	0.025	0.10	10-20	0.059	0.07	0.12	0.008	0.0092	0.012	0.0097	0.017	0.030	0.0025	0.0040
Units:			MPN/100ml	MPN/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)			2.2	2.2	10		1.5		450	106		69	0.010	0.010		0.7	0.3	0.3	0.05	0.05
MW2		12/17/18	33		0.030	3.2	3.4	3.2^	280	41		42		0.0019		0.14		-0.030		3.2
MW2		3/18/19	110		-0.042		3.2	~3.2	290									0.20		4.6
MW2		5/13/19	1600		-0.042		3.5	3.5^	310									0.24		5.2
MW2		9/16/19	920		-0.042		3.5	3.5^	300					0.0046		0.16		0.36		4.7
MW2		12/16/19	920		-0.025		3.6	3.9^	300	42		45		0.0046		0.16		0.36		4.7
MW2		3/16/19	920		0.046		3.3	3.3^	310									0.16		7.3
MW2		6/16/20	70		-0.024		3.1	3.1^	290									0.49		4.3
MW2		9/14/20	14		0.077		2.8	2.9^	300									-0.030		3.8
MW2		12/15/20	540		0.047		2.6	3.0^	300	45		39		0.0032		0.15		0.11		3.1
MW2		3/17/21	4.5		0.14		2.8	3.0^	300									0.081		3.3
MW2		6/22/21	1.8		0.10		2.5	2.5^	290									-0.030		2.9
MW2		9/21/21	280		0.10		2.5	2.6^	370									-0.030		6.5
MW2	12/14/21	920		-0.024	0.94	0.76	1.0^	210	15		23		0.00070		0.086		-0.030		5.8	
MW2	3/15/22	920		0.027		0.96	1.0^	210									0.24		5.9	
MW2	6/15/22	170		-0.024		2.20	2.2^	290									-0.030		3.3	
MW2A	276.26	9/12/13	2.0		-0.025		4.8	4.8	270									15.00		4.10
MW2A		12/11/13	50		-0.025	5.2	4.6	5.2^	270	40		44		0.019		0.160		15.00		4.20
MW2A		3/5/14	-2		-0.025		4.5	~4.5	260									15.00		4.10
MW2A		4/9/14							260									15.00		3.50
MW2A		5/5/14							280									16.00		3.60
MW2A		6/17/14	-2		-0.025		7.8	~7.8	290									19.00		3.30
MW2A		7/16/14							280									19.00		3.50
MW2A		8/20/14					7.3		230									12.00		2.20
MW2A		9/18/14	-2		-0.025		7.5	~7.5	210									11.00		2.40
MW2A		10/30/14							220									8.70		3.00
MW2A		11/21/14							290									10.00		3.70
MW2A		12/18/14	-2		-0.018	5.9	5.6	5.9^	290	50		46		0.013		0.180		11.00		3.20
MW2A		3/24/15	-2		-0.018		4.7	~4.7	270									12.00		3.00
MW2A		6/11/15	-2		-0.018		6.0	~6.0	290									12.00		3.60
MW2A		9/17/15	-2		0.029		5.6	~5.6	280									11.00		3.20
MW2A		12/16/15	2.0		0.024	5.7	5.2	5.7^	300	64		41		0.022		0.190		12.00		3.20
MW2A		3/29/16	-1.8		-0.022		3.4	~3.4	260									10.00		2.80
MW2A		6/21/16	-1.8		-0.022		5.0	~5.0	300									17.00		3.40
MW2A		9/8/16	-1.8		-0.022		4.9	~4.9	270									19.00		3.20
MW2A		12/8/16	-1.8		-0.022	4.4	4.2	4.4^	330	58		54		0.022		0.230		16.00		4.00
MW2A		3/9/17	-1.8		-0.022		3.4	~3.4	260									12.00		2.90
MW2A		6/13/17	-1.8		-0.021		3.3	~3.3	220									11.00		2.90
MW2A		9/13/17	-1.8		-0.021		4.0	~4.0	250									11.00		2.70
MW2A		12/5/17	-1.8		-0.021		3.7	3.5	3.7^	260								11.00		2.90
MW2A		3/9/18	3	-2	-0.021		3.5	~3.5	290									1.3		2.4
MW2A		6/15/18	17		-0.021		3.7	~3.7	300									1.5		3.5
MW2A		9/17/18	4.5		0.051		4.4	~4.4	320									6.5		4.0
MW2A		12/17/18	22		0.065	3.7	3.8	3.8^	300	59		44		0.0042		0.160		1.5		3.5

Table 2
Historical Quarterly Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

			MP Elevation	Date	Laboratory Analyses																
					Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese
Sample ID				SM 9221 B	SM 9221 E	EPA 300.0	EPA 351.2	EPA 350.1	Calc	EPA 160.1	EPA 300.0	EPA 200.7	EPA 200.7	EPA 200.2	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	
Analysis Method:						0.10	0.20	0.10	0.30	10-20	0.50	0.5	0.5	0.050	0.050	0.10	0.10	0.05	0.050	0.010	0.010
Practical Quantitation Limit						0.022	0.056	0.025	0.10	10-20	0.059	0.07	0.12	0.008	0.0092	0.012	0.0097	0.017	0.030	0.0025	0.0040
Minimum Detection Limit																					
Units:				MPN/100ml	MPN/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)				2.2	2.2	10		1.5		450	106		69	0.010	0.010		0.7	0.3	0.3	0.05	0.05
MW2A	269.85	3/18/19	4.0		0.043		2.9	~2.9	290									4.6		3.6	
MW2A		5/13/19	350		-0.042		3.6	3.6^	300									2.1		4.0	
MW2A		9/16/19	> 1600		0.070		3.6	3.6^	290									3.8		3.7	
MW2A		12/16/19	240		-0.025	3.4	3.4	3.4^	250	54		38		0.0079		0.14		3.5		3.0	
MW2A		3/16/19	540		-0.025		2.6	2.6^	210									1.8		2.2	
MW2A		6/16/20	-1.8		-0.024		2.9	2.9^	220									2.8		2.1	
MW2A		9/14/20	2.0		-0.024		3.1	3.1^	240									0.5		2.1	
MW2A		12/15/20	1.8		0.040		3.3	3.5^	300	66		46		0.0051		0.15		2.8		3.0	
MW2A		3/17/21	13		0.054		2.6	2.7^	240									1.2		2.0	
MW2A		6/22/21	> 1600		0.033		3.0	3.0^	290									1.3		2.8	
MW2A		9/21/21	920		0.150		3.8	4.0^	300									-0.030		3.2	
MW2A		12/14/21	920		-0.024	3.3	3.2	3.3^	270	41		52		0.0061		0.17		0.93		3.1	
MW2A		3/15/22	21		-0.024		2.7	2.7^	260									0.76		2.8	
MW2A		6/15/22	130		-0.024		3.1	3.1^	300									0.097		3.2	
MW3	269.85	7/16/02	30	-2	-0.50	8.8		9.1	330	32	48						-0.100		5.40		
MW3		9/18/02																			
MW3		10/29/02																			
MW3		11/22/02																			
MW3		12/31/02																			
MW3		1/21/03																			
MW3		6/30/03	-2	-2	-0.05	1.1		1.1	302	33	40				0.26		0.460		4.34		
MW3		7/31/03																			
MW3		8/31/03																			
MW3		9/30/03	-2	-2	-0.05	-1.0		0.5	316	34	38				0.24		0.720		4.10		
MW3		10/31/03																			
MW3		11/30/03																			
MW3		12/31/03	-2	-2	-0.05	1.1		1.1	325	33	40				0.26		0.590		4.14		
MW3		1/31/04																			
MW3		2/20/04																			
MW3		3/31/04	-2	-2	-0.05	1.1		1.1	374	33	39				0.30		0.280		4.02		
MW3		5/2/04																			
MW3		6/1/04																			
MW3		6/30/04	-2	-2	-0.05	-1.0		0.5	324	31	40				0.26		0.330		4.00		
MW3		7/31/04																			
MW3		9/4/04																			
MW3		10/1/04	-2	-2	-0.05	-1.0		0.5	280	33	38				0.28		0.100		3.88		
MW3		1/4/05	-2	-2	0.11	-1.0		0.6	331	34	42		-0.002		0.24		0.120		4.41		
MW3		4/1/05	-2	-2	-0.05	1.1		1.1	356	36	40		-0.002		0.25		0.090		4.38		
MW3		6/30/05	-2	-2	-0.05	-1.0		0.5	332	34	36		-0.002		0.22		0.140		4.07		
MW3		10/6/05																			
MW3		10/14/05	-2	-2	0.48	1.0		1.5	312	32	38		-0.002		0.20		0.080		3.80		
MW3		1/17/06																			
MW3	2/13/06		-2	-0.05	-1.0		0.5	326	30	40		0.0008		0.28		0.136		3.87			
MW3	3/10/06																				
MW3	4/29/06																				
MW3	5/23/06	-2	-2	-0.05	1.0		1.0	310	29	36		-0.002		0.21		0.310		4.63			

Table 2
Historical Quarterly Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Laboratory Analyses																	
			Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
Analysis Method:			SM 9221 B	SM 9221 E	EPA 300.0	EPA 351.2	EPA 350.1	Calc	EPA 160.1	EPA 300.0	EPA 200.7	EPA 200.7	EPA 206.2	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	
Practical Quantitation Limit					0.10	0.20	0.10	0.30	10-20	0.50	0.5	0.5	0.050	0.050	0.10	0.10	0.05	0.050	0.010	0.010
Minimum Detection Limit					0.022	0.056	0.025	0.10	10-20	0.059	0.07	0.12	0.008	0.0092	0.012	0.0097	0.017	0.030	0.0025	0.0040
Units:			MPN/100ml	MPN/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)			2.2	2.2	10		1.5		450	106		69	0.010	0.010		0.7	0.3	0.3	0.05	0.05
MW3	continued 269.85	6/30/06																		
MW3		7/25/06																		
MW3		8/25/06	-2	-2	-0.05	-1.0		0.5	306	29	36		-0.002		0.20		0.230		3.90	
MW3		9/29/06																		
MW3		10/24/06																		
MW3		11/30/06																		
MW3		12/12/06	-2	-2	0.34	1.4		1.7	304	26	37		-0.002		0.21		0.100		3.80	
MW3		12/29/06																		
MW3		1/31/07																		
MW3		2/27/07																		
MW3		3/13/07	-2		-0.05	-1.0		0.5	277	28	34		-0.002		0.20		0.240		3.90	
MW3		3/30/07																		
MW3		4/30/07																		
MW3		5/31/07																		
MW3		6/25/07	-2		-0.05	-1.0		0.5	260	28	34		-0.002		0.19		0.217		3.59	
MW3		7/29/07																		
MW3		8/30/07																		
MW3		9/27/07	-2	-2	-0.05	-1.0		0.5	284	30	37		-0.002		0.18		0.200	0.047	3.30	3.10
MW3		10/31/07																		
MW3		12/31/07	2	-2	0.93	-1.0		1.4	343	29	38		-0.002		0.22		0.061	0.034	3.40	3.50
MW3		2/2/08																		
MW3		3/2/08																		
MW3		7/7/08	-2	-2	0.19	1.5		1.7	361	37	44		0.0029		0.18		4.70	0.058	4.30	5.00
MW3		10/10/08	-2	-2	-0.05	1.1		1.1	314	38	34		-0.002		0.18		0.117	0.039	3.56	3.73
MW3		11/5/08																		
MW3		12/30/08	-2	-2	-0.10	1.0		1.1	330	37	44		0.011		0.23		0.110	0.087	5.30	4.7
MW3		3/12/09	-1.1		1.200	1.1		2.3	340	39	42		0.017		0.23		0.120	0.0076	5.50	4.4
MW3		6/16/09	-2	-2	0.090	1.4		1.5	320	40	42		-0.050		0.21		0.16	0.053	4.50	4.3
MW3		9/22/09	-2	-2	0.047	1.6		1.6	310	41		34				0.190		-0.0093		3.9
MW3		12/15/09	-2	-2	0.073	1.1		1.2	290	39		42				0.210		0.084		4.1
MW3		3/22/10	-2	-2	0.078	1.1		1.2	310	41		44				0.220		0.050		4.0
MW3		6/22/10	-2	-2	0.023	0.96		1.0	330	44		35				0.200		0.072		3.9
MW3	9/22/10	-2	-2	-0.014	1.3		1.3	360	44		38				0.210		0.081		4.2	
MW3	12/14/10	-2		1.8	0.85		2.7	310	36		40				0.210		0.092		3.90	
MW3	3/29/11	-2		0.15	1.2		1.4	340	37		43				0.230		0.074		4.50	
MW3	6/23/11	-2		0.079	0.98		1.1	320	38		41				0.190		0.082		4.40	
MW3	9/14/11	-2		-0.021	1.3		1.3	350	41		42				0.200		0.100		4.30	
MW3	12/14/11	-2	-2	2.1	1.4		3.5	330	38		41				0.200		0.059		4.00	
MW3	3/21/12	-2		0.74	1.3		2.0	310	35		41				0.200		0.055		3.90	
MW3	6/26/12	-2	-2	-0.021	1.5		1.5	310	37		41				0.190		0.083		4.00	
MW3	9/26/12	-2		-0.021	1.7		1.7	310	39		40				0.180		0.086		4.20	

Table 2
Historical Quarterly Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Laboratory Analyses																	
			Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
Analysis Method:			SM 9221 B	SM 9221 E	EPA 380.0	EPA 351.2	EPA 350.1	Calc	EPA 160.1	EPA 300.0	EPA 200.7	EPA 200.7	EPA 200.2	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	
Practical Quantitation Limit					0.10	0.20	0.10	0.30	10-20	0.50	0.5	0.5	0.050	0.050	0.10	0.10	0.05	0.050	0.010	0.010
Minimum Detection Limit					0.022	0.056	0.025	0.10	10-20	0.059	0.07	0.12	0.008	0.0092	0.012	0.0097	0.017	0.030	0.0025	0.0040
Units:			MPN/100ml	MPN/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)			2.2	2.2	10		1.5		450	106		69	0.010	0.010		0.7	0.3	0.3	0.05	0.05
MW3	Continued 269.85	12/18/12	-2		1.6	1.6		3.2	300	38		43				0.190		0.068		4.30
MW3		3/11/13	-2		0.24	1.5		1.7	320	33		46				0.190		0.061		4.80
MW3		6/26/13	-2		-0.025	1.7		1.7	300	45		43				0.170		0.090		4.70
MW3		9/11/13	-2		-0.025		1.4	1.4	320									0.098		4.80
MW3		12/12/13	-2		-0.025	1.4	1.3	1.4^	330	48		41		-0.0092		0.180		0.096		4.50
MW3		3/4/14	-2		1.1		1.2	~2.3	340									0.030		4.80
MW3		4/9/14							340									0.070		4.40
MW3		5/5/14							340									0.052		4.90
MW3		6/17/14	-2		-0.025		1.7	~1.7	340									0.110		4.70
MW3		7/16/14							290									0.069		4.90
MW3		8/20/14							320									-0.030		4.40
MW3		9/18/14	-2		-0.025		1.2	~1.2	320									0.130		4.50
MW3		10/30/14							320									-0.030		4.60
MW3		11/21/14							350									-0.030		4.60
MW3		12/18/14	-2		-0.018	1.6	1.3	1.3^	350	41		47		-0.0092		0.180		-0.030		4.60
MW3		3/24/15	-2		0.51		0.88	~1.4	380									-0.030		5.30
MW3		6/11/15	-2		0.091		1.2	~1.3	360									-0.030		5.20
MW3		9/17/15	-2		0.030		1.0	~1.0	350									0.043		4.80
MW3		12/16/15	-1.8		0.057	1.3	1.1	1.4^	350	48		40		0.0010		0.160		0.160		4.20
MW3		3/29/16	-1.8		0.66		0.86	~1.5	380									0.041		4.70
MW3		6/20/16	-1.8		0.034	1.4	1.20	1.3^	370									0.057		4.90
MW3		9/8/16	-1.8		-0.022		0.94	~1.0	350									0.075		4.70
MW3		12/8/16	-1.8		-0.022	1.3	1.1	1.3^	350	49		47		0.00057		0.200		0.073		5.10
MW3		3/10/17	-1.8		0.54		0.78	~1.3	390									0.065		5.50
MW3		6/14/17	-1.8		-0.021		1.2	~1.2	370									0.030		5.10
MW3		9/13/17	-1.8		-0.021		1.4	~1.4	320									0.040		4.60
MW3		12/6/17	-1.8		3.4	1.7	1.3	5.1^	360									0.038		4.10
MW3		3/9/18	6.0		3.4		1.3	4.7^	350									-0.030		2.9
MW3		6/15/18	49.0	-1.8	0.1		1.4	1.5^	320									-0.030		4.3
MW3		9/17/18	540		0.045		1.4	1.4^	320									-0.030		3.8
MW3		12/17/18	> 1600		0.026	1.7	1.7	1.8^	320	45		41		0.00084		0.170		0.030		3.7
MW3		3/18/19	920		1.6		1.1	2.7^	350									-0.030		3.4
MW3		5/13/19	23		0.13		1.8	1.9^	350									-0.030		4.7
MW3		9/16/19	1600		-0.042		2.4	2.4^	320									-0.030		4.9
MW3		12/16/19	920		-0.025	1.9	1.9	1.9^	300	47		45		-0.00038		0.18		0.034		4.3
MW3		3/16/19	920		-0.025		2.0	2.00^	330									0.059		4.5
MW3		6/16/20	-1.8		0.14		1.9	2.04^	310									0.043		4.3
MW3		9/14/20	58		0.097		1.9	2.0^	300									-0.030		4.1
MW3		12/15/20	140		0.085		1.7	1.8^	280	43		39		0.00082		0.16		-0.030		3.4
MW3		3/17/21	4.5		0.061		1.8	2.0^	300									-0.030		3.4
MW3		6/22/21	4.5		0.035		1.8	1.8^	300									-0.030		3.5
MW3		9/21/21	2.0		0.15		1.8	2.0^	300									-0.030		3.6
MW3		12/14/21	> 1600		0.066	2.1	1.7	2.1^	310	54		43		-0.00038		0.14		-0.030		3.5
MW3		3/15/22	350		0.12		1.7	1.8^	300									-0.030		3.8
MW3		6/15/22	9.2		0.032		1.8	1.8^	320									-0.030		4.1

Table 2
Historical Quarterly Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

			Laboratory Analyses																	
Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
Analysis Method:			SM 9221 B	SM 9221 E	EPA 300.0	EPA 351.2	EPA 350.1	Calc	EPA 160.1	EPA 300.0	EPA 200.7	EPA 200.7	EPA 206.2	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7
Practical Quantitation Limit					0.10	0.20	0.10	0.30	10-20	0.50	0.5	0.5	0.050	0.050	0.10	0.10	0.05	0.050	0.010	0.010
Minimum Detection Limit					0.022	0.056	0.025	0.10	10-20	0.059	0.07	0.12	0.008	0.0092	0.012	0.0097	0.017	0.030	0.0025	0.0040
Units:			MPN/100ml	MPN/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)			2.2	2.2	10		1.5		450	106		69	0.010	0.010		0.7	0.3	0.3	0.05	0.05
MW3A	278.27	8/30/07																		
MW3A		9/24/07																		
MW3A		10/31/07																		
MW3A	continued 278.27	11/29/07																		
MW3A		12/26/07	-2	-2	0.170	4.8		5.0	318	33	38		0.011		0.20		6.10	4.10	5.60	5.50
MW3A		2/2/08																		
MW3A		3/2/08																		
MW3A		7/7/08	-2	-2	-0.050	4.6		4.6	295	34	38		0.01		0.16		8.30	2.60	5.70	6.10
MW3A		10/10/08	-2	-2	-0.050	6.3		6.3	286	39	37		0.013		0.19		5.96	4.63	5.84	5.95
MW3A		11/5/08																		
MW3A		12/30/08	-2	-2	-0.10	6.4			280	42	44		0.018		0.23		17.0	6.20	8.10	7.20
MW3A		3/12/09	-1.1		0.41	6.0		6.4	270	43	41		0.016		0.23		5.500	0.14	7.50	6.00
MW3A		6/16/09	-2	-2	-0.10	4.4		4.5	250	40	43		-0.050		0.22		4.8	0.38	5.60	5.00
MW3A		9/22/09	-2	-2	-0.10	6.3		6.4	290	41		37				0.20		-0.05		5.30
MW3A		12/15/09	-2	-2	-0.10	7.0		7.1	280	45		44				0.24		6.80		6.50
MW3A		3/22/10	-2	-2	0.21	2.3		2.5	280	49		44				0.23		5.20		5.70
MW3A		6/22/10	-2	-2	-0.014	5.1		5.1	250	50		38				0.21		4.50		5.30
MW3A		9/22/10	-2	-2	-0.014	13		13.0	330	39		40				0.23		5.50		5.60
MW3A		12/14/10	-2		0.056	6.1		6.2	280	37		43				0.23		5.60		5.90
MW3A		3/29/11	-2		0.46	6.2		6.7	300	41		45				0.22		2.10		3.00
MW3A		6/23/11	-2		-0.014	4.8		4.8	290	40		44				0.20		4.70		5.90
MW3A		9/14/11	-2		-0.021	5.1		5.1	300	37		45				0.22		4.50		5.70
MW3A		12/14/11	-2	-2	-0.021	6.1		6.1	290	34		43				0.20		4.50		5.60
MW3A		3/21/12	-2		0.83	6.3		7.1	270	36		41				0.19		4.20		5.80
MW3A		6/26/12	-2	-2	-0.021	5.9		5.9	300	40		43				0.19		4.70		5.60
MW3A		9/26/12	-2		-0.021	5.2		5.2	270	39		41				0.18		4.40		5.80
MW3A		12/18/12	-2		-0.021	5.7		5.7	300	39		45				0.18		4.90		6.40
MW3A		3/11/13	-2		-0.021	6.1		6.1	300	41		48				0.18		5.00		7.30
MW3A		6/27/13	-2		-0.025	6.4		6.4	320	47		46				0.18		5.70		7.30
MW3A		9/12/13	-2		-0.025		7.5	7.5	320									7.20		7.60
MW3A	12/11/13	-2		-0.025	8.4	8.4	8.4^	330	47		46		0.011		0.20		7.60		8.20	
MW3A	3/5/14	-2		-0.025		6.7	~6.7	310									5.20		7.30	
MW3A	4/9/14							290									5.40		6.80	
MW3A	5/5/14							300									4.90		7.00	
MW3A	6/17/14	-2		0.025		6.4	~6.4	280									4.80		6.70	
MW3A	7/16/14							330									6.20		7.50	
MW3A	8/20/14							320									5.30		7.10	
MW3A	9/18/14	-2		-0.025		6.4	~6.4	290				45		-0.0092		0.18		6.90		7.20
MW3A	10/30/14							300									6.00		7.80	
MW3A	11/21/14							330									5.70		7.40	
MW3A	12/18/14	-2		-0.018	7.9	8.0	7.9^	340	45			45				0.18		6.90		7.60
MW3A	3/24/15	-2		-0.018		6.6	~6.6	320									5.80		7.40	
MW3A	6/11/15	-2		-0.018		8.4	~8.4	320									5.40		6.90	

Table 2
Historical Quarterly Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

			Laboratory Analyses																	
Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
Analysis Method:			SM 9221 B	SM 9221 E	EPA 300.0	EPA 351.2	EPA 350.1	Calc	EPA 160.1	EPA 300.0	EPA 200.7	EPA 200.7	EPA 206.2	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7
Practical Quantitation Limit					0.10	0.20	0.10	0.30	10-20	0.50	0.5	0.5	0.050	0.050	0.10	0.10	0.05	0.050	0.010	0.010
Minimum Detection Limit					0.022	0.056	0.025	0.10	10-20	0.059	0.07	0.12	0.008	0.0092	0.012	0.0097	0.017	0.030	0.0025	0.0040
Units:			MPN/100ml	MPN/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)			2.2	2.2	10		1.5		450	106		69	0.010	0.010		0.7	0.3	0.3	0.05	0.05
MW3A	268.77	9/17/15	-2		-0.018		7.2	~7.2	310									4.10		6.60
MW3A		12/16/15	-1.8		0.039	7.7	7.0	7.7^	310	48		39		0.012		0.17		4.50		5.90
MW3A		3/29/16	-1.8		-0.022		6.6	~6.6	310									4.50		6.10
MW3A		6/21/16	-1.8		-0.022		5.9	~5.9	280									4.10		5.50
MW3A		9/8/16	-1.8		0.22		6.4	~6.6	290									4.30		6.10
MW3A		12/8/16	-1.8		-0.022	6.8	6.8	6.8^	340	53		50		0.012		0.20		5.50		7.40
MW3A		3/10/17	-1.8		0.24		0.34	~0.6	310									5.30		7.50
MW3A		6/14/17	-1.8		-0.021		6.7	~6.7	270									4.20		6.20
MW3A		9/13/17	-1.8		0.16		6.1	~6.3	260									3.30		5.20
MW3A		12/5/17	-1.8		-0.021	6.5	5.6	6.5^	270									3.40		5.20
MW3A		3/9/18	-1.8		-0.021		5.6	5.6^	270									0.36		3.8
MW3A		6/15/18	2	-1.8	-0.021		5.5	5.5^	280									0.17		6.4
MW3A		9/17/18	4.5		0.039		6.5	6.5^	300									0.44		6.2
MW3A		12/17/18	79		0.053	6.8	6.9	6.9^	300	46		46		0.0034		0.15		0.031		5.7
MW3A		3/18/19	-1.8		0.17		6.5	6.7^	320									0.82		5.7
MW3A		5/13/19	79		-0.042		6.1	6.1^	310									0.37		6.5
MW3A		9/16/19	920		-0.042		6.3	6.3^	310									0.35		6.6
MW3A		12/16/19	> 1600		-0.025	5.9	5.7	5.9^	290	44		45		0.0060		0.18		0.99		6.0
MW3A		3/16/19	40		-0.025		6.1	6.1^	320									1.5		6.6
MW3A		6/16/20	-1.9		-0.024		5.1	5.1^	290									1.1		5.4
MW3A		9/14/20	6.8		-0.024		4.6	4.6^	290									-0.030		5.2
MW3A		12/15/20	2.0		0.065		4.6	5.3^	310	42		37		0.0034		0.16		0.14		4.7
MW3A		3/17/21	< 1.8		0.041		4.5	4.6^	280									0.23		5.1
MW3A		6/22/21	240		0.056		4.7	4.8^	290									0.053		5.2
MW3A		9/21/21	2.0		0.087		4.7	4.8^	290									-0.030		5.3
MW3A		12/14/21	22		-0.024	4.6	5.1	4.6^	320	43		44		0.0029		0.16		1.0		6.4
MW3A		3/15/22	< 1.8		-0.024		4.6	4.6^	290									1.3		6.0
MW3A		6/15/22	nm*		0.027		4.4	4.4^	300									0.20		6.4
MW4	268.77	7/16/02	50	-2	-0.50	5.4		5.7	250	27	21						0.130		0.110	
MW4		9/18/02																		
MW4		10/29/02																		
MW4		11/22/02																		
MW4		12/31/02																		
MW4		1/21/03																		
MW4		6/30/03	-2	-2	-0.05	-1.0		0.5	268	35	29				0.21		1.28		0.110	
MW4		7/31/03																		
MW4		8/31/03																		
MW4		9/30/03	-2	-2	-0.05	-1.0		0.5	247	35	31				0.17		0.100		0.040	
MW4		10/31/03																		
MW4		11/30/03																		
MW4		12/31/03	-2	-2	-0.05	-1.0		0.5	277	43	31				0.15		-0.050		0.030	
MW4		1/31/04																		
MW4		2/20/04																		
MW4		3/31/04	-2	-2	0.20	-1.0		0.7	278	42	31				0.15		-0.050		0.040	

Table 2
Historical Quarterly Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

			Laboratory Analyses																	
			Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
Sample ID	MP Elevation	Date																		
Analysis Method:			SM 9221 B	SM 9221 E	EPA 300.0	EPA 351.2	EPA 350.1	Calc	EPA 160.1	EPA 300.0	EPA 200.7	EPA 200.7	EPA 200.2	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7
Practical Quantitation Limit					0.10	0.20	0.10	0.30	10-20	0.50	0.5	0.5	0.050	0.050	0.10	0.10	0.05	0.050	0.010	0.010
Minimum Detection Limit					0.022	0.056	0.025	0.10	10-20	0.059	0.07	0.12	0.008	0.0092	0.012	0.0097	0.017	0.030	0.0025	0.0040
Units:			MPN/100ml	MPN/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)			2.2	2.2	10		1.5		450	106		69	0.010	0.010		0.7	0.3	0.3	0.05	0.05
MW4	continued 268.77	11/29/07																		
MW4		12/27/07	-2	-2	-0.05	-1.0		0.5	239	53	39		-0.002		0.17		0.022	-0.020	0.180	0.18
MW4		2/2/08																		
MW4		3/2/08																		
MW4		7/7/08	17	-2	-0.05	-1.0		0.5	232	50	34		-0.002		0.13		0.021	-0.020	0.20	0.20
MW4		10/10/08	-2	-2	-0.05	-1.0		0.5	251	49	33		-0.002		0.15		-0.002	-0.002	0.203	0.216
MW4		11/5/08																		
MW4		12/30/08	-2	-2	-0.10	1.3		1.4	250	46	37		0.010		0.12		1.20	0.010	0.66	0.29
MW4		3/12/09			-0.10	0.14		0.2	270	44	43		-0.050		0.18		2.70	0.016	0.390	0.30
MW4		6/16/09	-2	-2	-0.10	0.17		0.2	250	37	43		-0.050		0.17		0.50	0.024	0.30	0.31
MW4		9/22/09	-2	-2	-0.1	0.18		0.2	280	47		38				0.18		-0.0093		0.31
MW4		12/15/09	-2	-2	-0.1	0.14		0.2	310	57		46				0.21		0.120		0.37
MW4		3/22/10	-2	-2	0.14	-0.20		0.2	280	46		49				0.18		0.140		0.32
MW4		6/22/10	-2	-2	-0.014	-0.056		0.04	250	35		33				0.15		0.036		0.26
MW4		9/22/10	-2	-2	-0.014	-0.056		0.04	310	55		42				0.20		0.029		0.36
MW4		12/14/10	-2		-0.014	0.089		0.1	270	54		46				0.22		0.019		0.42
MW4		3/29/11	-2		0.42	-0.056		0.4	250	40		43				0.18		-0.005		0.37
MW4		6/23/11	-2		0.098	-0.056		0.1	220	28		37				0.13		-0.005		0.34
MW4		9/14/11	-2		-0.021	0.061		0.1	220	34		41				0.16		0.021		0.38
MW4		12/14/11	-2	-2	-0.021	0.11		0.1	250	40		44				0.19		0.0070		0.44
MW4		3/21/12	-2		-0.021	0.13		0.1	250	40		44				0.16		0.0089		0.47
MW4		6/26/12	-2	-2	-0.021	0.10		0.1	230	36		40				0.14		0.019		0.43
MW4		9/26/12	-2		0.12	0.11		0.2	250	24		42				0.14		0.011		0.51
MW4		12/18/12	2.0		-0.021	-0.083		0.1	250	46		46				0.16		0.022		0.57
MW4		3/11/13	-2		-0.021	0.16		0.2	260	44		45				0.16		-0.030		0.56
MW4		6/27/13	-2		-0.025	0.17		0.2	230	41		41				0.13		-0.030		0.55
MW4		9/11/13	-2		-0.025		0.037	0.05	250									-0.030		0.60
MW4		12/11/13	-2		-0.025	0.16	0.024	0.2^	270	46		43		-0.0092		0.15		-0.030		0.59
MW4		3/5/14	80		-0.025		0.059	~0.1	230									-0.030		0.64
MW4		6/17/14	-2		-0.025		-0.033	~0.03	250									0.032		0.63
MW4		9/18/14	-2		-0.025		-0.033	~0.03	250									-0.030		0.69
MW4		12/18/14	8.0		-0.018	0.82	0.036	0.82^	270	36		44		-0.0092		0.14		-0.030		0.67
MW4		3/24/15	-2		-0.018		-0.033	~0.03	280									-0.030		0.77
MW4		6/11/15	-2		-0.018		-0.025	~0.02	300									-0.030		0.81
MW4		9/17/15	-2		0.18		-0.025	~0.19	290									-0.030		0.80
MW4		12/16/15	-1.8		0.21	0.21	0.027	0.42^	310	42		40			0.00045		0.12	0.077		0.69
MW4		3/29/16	-1.8		8.2		-0.025	~8.21	330									-0.030		0.89

Table 2
Historical Quarterly Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

			Laboratory Analyses																	
Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
Analysis Method:			SM 9221 B	SM 9221 E	EPA 300.0	EPA 351.2	EPA 350.1	Calc	EPA 160.1	EPA 300.0	EPA 200.7	EPA 200.7	EPA 206.2	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7
Practical Quantitation Limit					0.10	0.20	0.10	0.30	10-20	0.50	0.5	0.5	0.050	0.050	0.10	0.10	0.05	0.050	0.010	0.010
Minimum Detection Limit					0.022	0.056	0.025	0.10	10-20	0.059	0.07	0.12	0.008	0.0092	0.012	0.0097	0.017	0.030	0.0025	0.0040
Units:			MPN/100ml	MPN/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)			2.2	2.2	10		1.5		450	106		69	0.010	0.010		0.7	0.3	0.3	0.05	0.05
MW4	continued 268.77	6/21/16	-1.8		3.5		-0.025	~3.51	340									-0.030		0.92
MW4		9/8/16	-1.8		1.2		-0.025	~1.21	340									-0.030		0.92
MW4		12/9/16	-1.8		2.6	0.17	0.020	2.8^	350	47		53		-0.00038		0.16		0.038		1.00
MW4		3/9/17	2.0		20		-0.020	~20.01	500									-0.030		1.70
MW4		6/14/17	-1.8		1.2		-0.020	~1.21	330									-0.030		0.98
MW4		9/13/17	-1.8		0.54		-0.020	~0.55	310									-0.030		0.95
MW4		12/5/17	-1.8		0.36	0.15	0.028	0.51^	290									-0.030		0.91
MW4		3/9/18	-1.8		1.1		0.17	1.27^	300									-0.030		0.65
MW4		6/15/18	8.1	-1.8	1.7		0.08	1.80^	290									0.041		0.89
MW4		9/17/18	33		0.45		0.13	0.6^	300									-0.030		1.1
MW4		12/17/18	>1,600		0.26	0.47	0.13	0.73^	280	38		41		-0.00038		0.13		-0.030		0.94
MW4		3/18/19	46		2.7		0.14	0.6^	270									-0.030		0.81
MW4		5/13/19	46		0.44		<0.067	0.4^	240									-0.030		0.81
MW4		9/16/19	220		-0.042		<0.067	0.1^	280									-0.030		0.97
MW4		12/16/19	920		0.053	0.21	<0.067	0.3^	270	38		44		-0.00038		0.18		-0.030		0.99
MW4		3/16/19	540		0.21		<0.067	0.2^	280									0.034		0.93
MW4		6/16/20	27		1.9		0.097	2.0^	340									-0.030		1.1
MW4		9/14/20	20		0.11		<0.067	0.1^	300									-0.030		1.1
MW4		12/15/20	2.0		0.12		0.11	0.38^	260	31		40		-0.00038		0.15		-0.030		0.87
MW4		3/17/21	<1.8		0.52		<0.067	0.38^	290									-0.030		1.0
MW4		6/22/21	350		1.5		0.11	1.60^	300									-0.030		0.87
MW4		9/21/21	79		1.7		0.17	1.90^	290									-0.030		0.87
MW4		12/14/21	1600		7.2	0.42	(0.067)	7.60^	320	52		43		-0.00038		0.14		-0.030		1.0
MW4		3/15/22	240		8.3		0.081	8.38^	280									-0.030		1.1
MW4		6/15/22	2.0		1.2		0.091	1.3^	270									-0.030		0.87
MW4A	265.72	8/30/07																		
MW4A		9/24/07																		
MW4A		10/31/07																		
MW4A		11/29/07																		
MW4A		12/27/07	50	-2	0.12	-1.0		0.62	313	24	23		-0.002		0.09		3.60	-0.020	0.450	0.045
MW4A		2/2/08																		
MW4A		3/2/08																		
MW4A		7/7/08	2	-2	0.20	-1.0		0.70	265	34	24		-0.002		0.083		0.280	0.052	0.096	0.088
MW4A		10/10/08	-2	-2	0.37	-1.0		0.87	238	24	21		-0.002		0.089		1.64	0.096	0.168	0.118
MW4A		11/5/08																		
MW4A		12/30/08	8	-2	0.48	0.050		0.53	230	13	22		-0.05		0.093		0.250	0.120	0.190	0.170
MW4A		3/12/09	> 1.1			0.18		0.18	240	25	24		0.019		0.090		-0.050	-0.050	0.120	0.088
MW4A		6/16/09	240	2.0	0.15	0.10		0.25	280	29	25		-0.05		0.088		0.100	0.042	0.180	0.180
MW4A		9/22/09	-2	-2	-0.10	-0.20		0.15	240	25		20				0.092		-0.0093		0.096
MW4A		12/15/09	-2	-2	0.30	-0.20		0.40	230	21		20				0.091		0.077		0.083
MW4A		3/22/10	17	-2	0.49	0.10		0.59	280	40		25				0.084		-0.0093		0.086
MW4A		6/22/10	4	-2	0.40	-0.056		0.43	290	37		20				0.086		-0.005		0.096
MW4A	09/22/10	50	-2	0.036	-0.056		0.06	330	37		24				0.110		0.058		0.079	
MW4A	12/14/10	170		0.088	0.23		0.32	270	36		24				0.098		0.20		0.11	
MW4A	03/30/11	900	900	1.1	0.86		1.96	290	46		30				0.100		0.023		0.11	
MW4A	06/23/11	-2		0.20	0.26		0.46	280	35		27				0.090		0.023		0.12	

Table 2
Historical Quarterly Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

			Laboratory Analyses																	
Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
Analysis Method:			SM 9221 B	SM 9221 E	EPA 300.0	EPA 351.2	EPA 350.1	Calc	EPA 160.1	EPA 300.0	EPA 200.7	EPA 200.7	EPA 206.2	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7
Practical Quantitation Limit					0.10	0.20	0.10	0.30	10-20	0.50	0.5	0.5	0.050	0.050	0.10	0.10	0.05	0.050	0.010	0.010
Minimum Detection Limit					0.022	0.056	0.025	0.10	10-20	0.059	0.07	0.12	0.008	0.0092	0.012	0.0097	0.017	0.030	0.0025	0.0040
Units:			MPN/100ml	MPN/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)			2.2	2.2	10		1.5		450	106		69	0.010	0.010		0.7	0.3	0.3	0.05	0.05
MW4A	continued 265.72	09/14/11	-2		0.046	-0.056		0.07	280	31		26				0.099		-0.005		0.052
MW4A		12/14/11	2.0	-2	0.36	-0.056		0.39	250	23		24				0.092		-0.005		0.056
MW4A		03/21/12	140		0.46	-0.056		0.49	240	20		24				0.082		0.300		0.060
MW4A		06/26/12	-2	-2	0.15	-0.056		0.18	290	24		25				0.094		0.0062		0.062
MW4A		09/26/12	4		-0.021	0.057		0.07	240	40		25				0.092		0.0054		0.062
MW4A		12/19/12	17		0.10	-0.083		0.14	250	25		23				0.085		0.029		0.061
MW4A		03/11/13	-2		0.22	-0.083		0.26	270	35		23				0.079		-0.030		0.063
MW4A		06/27/13	-2		0.41	0.17		0.58	230	24		22				0.082		0.047		0.073
MW4A		09/12/13	-2		0.46		0.018	0.48	170									-0.030		0.061
MW4A		12/11/13	8.0		0.46	-0.053	-0.017	0.48^	220	17		21		-0.0092		0.083		0.060		0.074
MW4A		03/05/14	≥ 1600		0.33		0.045	~0.4	210									-0.030		0.055
MW4A		06/17/14	2		0.21		-0.033	~0.2	230									0.033		0.065
MW4A		09/18/14	2.0		0.25		-0.033	~0.3	220									-0.030		0.063
MW4A		12/18/14	≥ 1600		0.31	-0.053	-0.033	0.36^	230	16		21		-0.0092		0.083		-0.030		0.042
MW4A		03/24/15	-2		1.1		-0.033	~1.1	240									-0.030		0.037
MW4A		06/11/15	-2		0.97		-0.025	~1.0	270									-0.030		0.039
MW4A		09/17/15	2.0		0.68		-0.025	~0.7	260									-0.030		0.055
MW4A		12/16/15	4.5		0.86	0.26	-0.025	1.1^	250	19		19		0.00040		0.073		0.064		0.028
MW4A		03/29/16	94		2.8		-0.025	~2.8	280									-0.030		0.023
MW4A		06/21/16	-1.8		3.6		0.025	~3.6	310									0.048		0.110
MW4A		09/08/16	-1.8		2.7		-0.025	~2.7	310									-0.030		0.052
MW4A		12/09/16	-1.8		1.8	0.093	-0.020	1.9^	290	32		26		-0.00038		0.091		-0.030		0.028
MW4A		03/09/17	110		2.0		-0.020	~2.0	310									-0.030		0.012
MW4A		06/14/17	-1.8		0.44		-0.020	~0.5	330									-0.030		0.110
MW4A		09/13/17	-1.8		0.68		0.051	~0.7	310									-0.030		0.057
MW4A		12/05/17	140		2.4	0.17	0.055	2.6^	300									-0.030		0.043
MW4A		3/9/18	4		1.4		0.043	1.4^	310									-0.030		0.019
MW4A		6/15/18	14	2	1.6		0.077	1.7^	290									-0.030		0.036
MW4A		9/17/18	-1.8		0.86		0.082	0.9^	290									-0.030		0.050
MW4A		12/17/18	49		0.62	0.13	0.086	0.75^	260	18		27		-0.00038		0.075		-0.030		-0.033
MW4A		3/18/19	220		1.5		0.056	1.6^	280									-0.030		0.023
MW4A		5/13/19	23		0.76		<0.067	0.8^	310									-0.030		0.082
MW4A		9/16/19	920		0.20		<0.067	0.2^	260									-0.030		0.067
MW4A		12/16/19	280		0.57	0.15	<0.067	0.72^	250	25		29		-0.00038		0.090		-0.030		0.024
MW4A		3/16/19	170		0.42		<0.067	0.42^	270									-0.030		0.018
MW4A		6/16/20	21		0.71		0.097	0.80^	320									-0.030		0.067
MW4A		9/14/20	11		0.32		<0.067	0.32^	280									-0.030		0.098
MW4A		12/15/20	14		0.24		0.11	0.69^	220	25		26		-0.00038		0.086		-0.030		0.017
MW4A		3/17/21	13		0.45		<0.067	0.45^	250									-0.030		0.015
MW4A		6/22/21	4.0		0.56		0.093	0.56^	250									-0.030		0.044
MW4A		9/21/21	2.0		0.36		0.15	0.51^	250									-0.030		0.014
MW4A		12/14/21	920		1.50	0.26	-0.067	1.8^	220	25		25		-0.00038		0.090		-0.030		0.008
MW4A		3/15/22	920		2.1		0.081	2.2^	280									-0.030		0.057

Table 2
Historical Quarterly Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Laboratory Analyses																	
			Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
Analysis Method:			SM 9221 B	SM 9221 E	EPA 300.0	EPA 351.2	EPA 350.1	Calc	EPA 160.1	EPA 300.0	EPA 200.7	EPA 200.7	EPA 200.2	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	
Practical Quantitation Limit					0.10	0.20	0.10	0.30	10-20	0.50	0.5	0.5	0.050	0.050	0.10	0.10	0.05	0.050	0.010	0.010
Minimum Detection Limit					0.022	0.056	0.025	0.10	10-20	0.059	0.07	0.12	0.008	0.0092	0.012	0.0097	0.017	0.030	0.0025	0.0040
Units:			MPN/100ml	MPN/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)			2.2	2.2	10		1.5		450	106		69	0.010	0.010		0.7	0.3	0.3	0.05	0.05
MW5A	266.13	8/30/07																		
MW5A		9/24/07																		
MW5A		10/31/07																		
MW5A		11/29/07																		
MW5A	continued 263.13	12/31/07	-2	-2	-0.05	-1.0		0.53	304	26	24		-0.002		0.095		0.32	-0.020	0.280	0.230
MW5A		2/2/08																		
MW5A		3/2/08																		
MW5A		7/2/08	-2	-2	0.6	-1.0		1.10	227	18	17		-0.002		0.071		0.650	-0.020	0.270	0.250
MW5A		10/10/08	-2	-2	0.85	-1.0		1.35	199	11	15		-0.002		0.076		0.099	-0.002	0.132	0.131
MW5A		11/5/08																		
MW5A		12/30/08	-2	-2	0.7	0.049		0.75	200	8.3	16		-0.050		0.084		0.017	0.014	0.088	0.100
MW5A		3/12/09	> 1.1		0.44	0.092		0.53	260	23.0	21		0.011		0.091		0.026	-0.050	0.210	0.160
MW5A		6/16/09	-2	-2	0.15	0.075		0.23	250	26	23		-0.050		0.086		-0.030	-0.050	0.170	0.150
MW5A		9/22/09	-2	-2	0.72	-0.2		0.82	190	11		15					0.080		0.034	0.056
MW5A		12/15/09	-2	-2	0.6	-0.2		0.70	230	19		15					0.085		-0.0093	0.079
MW5A		3/22/10	13	-2	0.39	0.1		0.48	310	39		26					0.100		-0.0093	0.18
MW5A		6/22/10	-2	-2	0.44	-0.056		0.47	240	28		19					0.083		-0.005	0.19
MW5A		9/22/10	-2	-2	0.28	-0.056		0.31	320	31		20					0.098		-0.005	0.26
MW5A		12/14/10	2		0.082	-0.056		0.11	280	35		23					0.100		-0.005	0.16
MW5A		3/29/11	23		0.028	-0.056		0.06	310	41		27					0.110		-0.005	0.32
MW5A		6/23/11	-2		0.12	0.26		0.38	280	34		25					0.087		-0.005	0.28
MW5A		9/14/11	-2		0.44	-0.056		0.47	220	20		22					0.092		0.074	0.36
MW5A		12/14/11	-2	-2	0.83	-0.056		0.86	230	15		20					0.084		-0.005	0.23
MW5A		3/21/12	140		0.32	-0.056		0.35	250	22		20					0.080		-0.005	0.28
MW5A	6/26/12	2.0	-2	0.24	-0.056		0.27	250	18		20					0.085		0.0059	0.31	
MW5A	9/26/12	-2		0.30	-0.056		0.33	230	20		19					0.080		0.0130	0.30	
MW5A	12/19/12	11		0.37	0.092		0.46	250	36		22					0.085		-0.005	0.36	
MW5A	3/11/13	9		0.59	-0.083		0.63	230	26		22					0.083		-0.030	0.28	
MW5A	6/27/13	-2		0.70	0.10		0.80	210	13		17					0.078		-0.030	0.097	
MW5A	9/12/13	-2		0.66		0.017	0.68	210										-0.030	0.058	
MW5A	12/11/13	-2		0.19	0.075	-0.017	0.26^	230	32		19		-0.0092		0.081		0.098		0.12	
MW5A	3/5/14	9		0.27		0.046	~0.3	230										-0.030	0.094	
MW5A	6/17/14	-2		0.20		-0.033	~0.2	220										-0.030	0.13	
MW5A	9/18/14	-2		0.41		-0.033	~0.4	200										-0.030	0.067	
MW5A	12/18/14	30		0.50	0.054	-0.033	0.55^	240	22		21		-0.0092		0.083		-0.030		0.042	
MW5A	3/24/15	-2		1.20		-0.033	~1.2	270										-0.030	0.11	
MW5A	6/11/15	-2		0.84		-0.025	~0.9	280										-0.030	0.12	
MW5A	9/17/15	-2		0.87		-0.025	~0.9	250										-0.030	0.038	
MW5A	12/16/15	-2		1.50	0.17	-0.025	1.6^	290	33		18		0.00038		0.070		0.059		0.039	
MW5A	3/29/16	14		3.0		-0.025	~3.0	310										-0.030	0.10	
MW5A	6/21/16	-1.8		3.6		-0.025	~3.6	300										-0.030	0.14	
MW5A	9/8/16	-1.8		2.5		-0.025	~2.5	280										-0.030	0.12	
MW5A	12/9/16	14		1.8	-0.088	-0.020	1.9^	280	35		25		-0.00038		0.091		-0.030		0.086	
MW5A	3/9/17	7.8		1.9		0.034	~1.9	320										-0.030	0.100	
MW5A	6/14/17	-1.8		-0.021	0.025	~0.0	~0.0	290										-0.030	0.330	
MW5A	9/13/17	-1.8		3.4		-0.020	~3.4	340										-0.030	0.310	

Table 2
Historical Quarterly Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

			Laboratory Analyses																		
Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	
Analysis Method:			SM 9221 B	SM 9221 E	EPA 300.0	EPA 351.2	EPA 350.1	Calc	EPA 160.1	EPA 300.0	EPA 200.7	EPA 200.7	EPA 206.2	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	
Practical Quantitation Limit					0.10	0.20	0.10	0.30	10-20	0.50	0.5	0.5	0.050	0.050	0.10	0.10	0.05	0.050	0.010	0.010	
Minimum Detection Limit					0.022	0.056	0.025	0.10	10-20	0.059	0.07	0.12	0.008	0.0092	0.012	0.0097	0.017	0.030	0.0025	0.0040	
Units:			MPN/100ml	MPN/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
MCL (2nd MCL or Ag-use threshold if shaded)			2.2	2.2	10		1.5		450	106		69	0.010	0.010		0.7	0.3	0.3	0.05	0.05	
MW5A	continued 263.13	12/5/17	-1.8		3.2	0.11	0.038	3.4^	270									-0.030		0.240	
MW5A		3/9/18	-1.8		1.8		0.077	1.8^	270									-0.030		0.190	
MW5A		6/15/18	6.8	-2	1.1		-0.018	1.1^	270									-0.030		0.180	
MW5A		9/17/18	-1.8		1.7		0.066	1.8^	250									0.050		0.17	
MW5A		12/17/18	33		0.99		0.070	1.1^	250	15		19		-0.00038		0.070		-0.030		0.059	
MW5A		3/18/19	49		1.7		-0.050	1.7^	290									-0.030		0.13	
MW5A		5/13/19	49		0.049		0.067	0.1^	280									-0.030		0.24	
MW5A		9/16/19	350		1.5		-0.067	1.5^	250									-0.030		0.21	
MW5A		12/16/19	110		0.73	0.11	-0.067	0.84^	250	20		24		-0.00038		0.092		-0.030		0.24	
MW5A		3/16/20	70		0.73		-0.067	0.73^	230									-0.030		0.22	
MW5A		6/16/20	49		0.14		0.12	0.26^	310									-0.030		0.29	
MW5A		9/14/20	1600		0.38		-0.067	0.38^	220									-0.030		0.17	
MW5A		12/15/20	920		1.1		0.093	1.5^	200	20		19		-0.00038		0.076		-0.030		0.13	
MW5A		3/17/21	2.0		1.7		-0.067	1.7^	250									-0.030		0.15	
MW5A		6/22/21	49		0.81		0.087	0.9^	240									-0.030		0.11	
MW5A		9/21/21	2.0		0.66		0.160	0.8^	210									-0.030		0.07	
MW5A		12/14/21	920		1.5		-0.067	1.7^	250	37		26		-0.0038		0.10		-0.030		0.068	
MW5A		3/15/22	< 1.8		2.1		-0.067	2.1^	270									-0.030		0.24	
MW5A		6/15/22	2.0		0.99		0.070	1.1^	260									-0.030		0.30	
Piezometers																					
Only depth to water data was ever collected from piezometers																					
P-3		6/22/21	240		0.039		0.630	0.7^	270									1.5		2.5	
P-3		9/21/21	2.0		-0.024		0.920	1.0^	300									-0.030		2.9	
P-5B		6/22/21	920		0.60		0.110	0.7^	250									-0.030		0.0075	
P-5B		9/21/21	1600		0.72		0.095	0.8^	220									-0.030		0.0660	
Sutter Creek Sample Points																					
SC2	Five Mile	7/31/03																			
SC2	Bridge	8/31/03																			
SC2	281.11	9/30/03																			
SC2		10/31/03																			
SC2		11/30/03																			
SC2		12/31/03																			
SC2		1/31/04																			
SC2		2/20/04																			
SC2		3/31/04																			
SC2		5/2/04																			
SC2		6/1/04																			
SC2		6/30/04																			
SC2		7/31/04																			
SC2		9/4/04																			
SC2		10/1/04			-0.05	-1.0			341	47	38				0.24		0.110		0.110		

Table 2
Historical Quarterly Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Laboratory Analyses																	
			Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
Analysis Method:			SM 9221 B	SM 9221 E	EPA 300.0	EPA 351.2	EPA 350.1	Calc	EPA 160.1	EPA 300.0	EPA 200.7	EPA 200.7	EPA 206.2	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	
Practical Quantitation Limit					0.10	0.20	0.10	0.30	10-20	0.50	0.5	0.5	0.050	0.050	0.10	0.10	0.05	0.050	0.010	0.010
Minimum Detection Limit					0.022	0.056	0.025	0.10	10-20	0.059	0.07	0.12	0.008	0.0092	0.012	0.0097	0.017	0.030	0.0025	0.0040
Units:			MPN/100ml	MPN/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)			2.2	2.2	10		1.5		450	106		69	0.010	0.010		0.7	0.3	0.3	0.05	0.05
SC3	Adjacent MW2	9/4/04																		
SC3		10/1/04			-0.05	-1.0			277	31	33				0.18		1.34		3.900	
SC3		1/4/05			0.99	-1.0			148	6	6				-0.10		0.540		0.030	
SC3		4/1/05			0.33	-1.0			125	4	5				-0.10		0.510		0.030	
SC3		6/30/05			0.14				165	7	8				-0.05		0.060		0.030	
SC3		10/6/05			0.61	1.0			250	27	29				0.21		0.330		1.200	
SC3		2/10/06			0.39				127	6	7		0.0039				0.291		0.032	
SC3		5/26/06			0.15	-1.0			145	6	6		0.0039		-0.05		0.218		0.035	
SC3		9/6/06			0.56	-1.0			199	12	15		0.0034		0.07		0.610		0.380	
SC3		12/13/06			0.25	-1.0			172	8	8		0.0035		-0.05		0.180		0.045	
SC3		3/14/07			0.18	-1.0			118	6	7		0.0049		-0.05		0.180		0.053	
SC3		6/29/07			0.49	-1.0			224	18	20		0.002		0.08		0.150		0.370	
SC3		8/28/07	500	80	0.12	-1.0	-0.500		251	23	31		0.0029		0.087		0.410		1.20	
SC3		12/31/07			0.17	-1.0	-0.500		202	9	10		0.0043		-0.05		0.110		0.120	
SC3		10/30/08	> 2400	80	0.08	-1.0	-0.500		272	44	34		0.012		0.17		6.15		3.68	1.75
SC4	Utility Bridge 278.35	6/28/03																		
SC4		7/31/03																		
SC4		8/31/03																		
SC4		9/30/03																		
SC4		10/31/03																		
SC4		11/30/03																		
SC4		12/31/03																		
SC4		1/31/04																		
SC4		2/20/04																		
SC4		3/31/04																		
SC4		5/2/04																		
SC4		6/1/04																		
SC4		6/30/04																		
SC4		7/31/04																		
SC4		9/4/04																		
SC4		10/1/04			1.00	-1.0			285	27	21				0.11		0.420		0.110	
SC4		10/4/05			1.30	-1.0			218	19	23				0.16		0.150		0.080	
SC4		9/6/06			0.71	-1.0			176	10	13		0.0021		0.06		0.300		0.037	
SC4		6/29/07			0.68	-1.0			199	10	12		-0.002		0.062		0.150		0.036	
SC4		12/29/08	> 23	> 23	0.57	0.10	-0.025		160	7.3	9.6		-0.050		0.032		0.018		0.0079	
SC4	3/12/09	> 1.1		0.54	0.17	0.028		150	5.1	7.6		0.013		0.030		0.370		0.0280		
SC4	6/16/09	> 1600	> 1600	0.91	0.34	-0.025		190	9.5	16		-0.050		0.074		0.080		0.029		
SC4	9/23/09	1600	130	0.25	0.44	0.11		270	43	42				0.180		0.620		0.740		

Table 2
Historical Quarterly Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

			Laboratory Analyses																	
Sample ID	MP Elevation	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
Analysis Method:			SM 9221 B	SM 9221 E	EPA 300.0	EPA 351.2	EPA 350.1	Calc	EPA 160.1	EPA 300.0	EPA 200.7	EPA 200.7	EPA 206.2	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7
Practical Quantitation Limit					0.10	0.20	0.10	0.30	10-20	0.50	0.5	0.5	0.050	0.050	0.10	0.10	0.05	0.050	0.010	0.010
Minimum Detection Limit					0.022	0.056	0.025	0.10	10-20	0.059	0.07	0.12	0.008	0.0092	0.012	0.0097	0.017	0.030	0.0025	0.0040
Units:			MPN/100ml	MPN/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)			2.2	2.2	10		1.5		450	106		69	0.010	0.010		0.7	0.3	0.3	0.05	0.05
SC4	Utility Bridge 278.35	12/16/09	> 1600	500	0.61	0.17	0.033		180	7.0	8.7				0.037		0.110		0.0099	
SC4		3/22/10	500	30	0.14	0.15	0.037		160	5.4	9.5				0.037		1.400		0.1200	
SC4		6/22/10	> 1600	130	0.15	-0.056	-0.025		170	5.3	7.6				0.041		1.100		0.230	
SC4		9/22/10	> 1600	300	0.49	0.310	0.092		310	30	18				0.072		0.140		0.120	
SC4		12/13/10	≥ 1600	50	0.20	0.160	-0.025		150	5.3	8.7				0.048		0.120		0.015	
SC4		3/28/11	≥ 1600	≥ 1600	0.28	0.120	-0.025		91	2.4	4.4				-0.010		1.70		0.05	
SC4		6/22/11	≥ 1600	500	0.26	0.071	-0.025		150	4.2	7.6				0.031		0.120		0.017	
SC4		9/13/11	900	50	0.023	0.150	0.025		220	12.0	15				0.071		0.058		0.041	
SC4		12/14/11	500	30	0.130	-0.056	-0.025		160	6.5	8.9				0.038		0.094		0.031	
SC4		3/22/12	≥ 1600	170	0.30	0.15	-0.025		130	4.6	6.2				0.031		0.320		0.022	
SC4		6/25/12	≥ 1600	80	0.34	0.19	-0.025		200	6.9	10				0.050		0.079		0.031	
SC4		9/25/12	≥ 1600	130	1.20	0.13	0.032		230	15	17				0.087		0.190		0.230	
SC4		12/18/12	≥ 1600	300	0.47	0.37	0.12		92	3.7	5.6				0.017		0.400		0.017	
SC4		3/11/13	900	30	0.081	0.15	-0.017		160	6.2	8.1				0.033		0.110		0.018	
SC4		6/27/13	≥ 1600	80	0.024	0.29	0.085		250	29	25				0.110		0.41		0.81	
SC4+		8/28/07	500	22	0.18	-1.00	-0.500		209	10	14		-0.002		0.057		0.094		0.190	
SC4+		10/30/08	> 2400	> 2400	0.16	-1.0	-0.500		276	20	23		-0.002		0.16		0.253		0.226	
SC6		10/14/04			1.50	2.2			430	99	72				0.23		0.370		0.050	
SC6		10/4/05			4.20	-1.0			380	40	30				0.15		0.130		0.160	
SC6		6/29/07			1.20	-1.0			180	22	19		-0.002		0.056		0.090		0.014	
SC6		8/28/07	> 2400	170	2.70	1.6	-0.500		397	60	45		0.0024		0.12		0.230		0.028	
SC6		10/30/08	> 2400	240	4.10	-1.0	-0.500		240	26	16		-0.002		0.061		0.294		0.032	0.026

Table 2
Historical Quarterly Groundwater Quality Data
City of Ione - Wastewater Treatment Facility

Sample ID	MP Elevation	Date	Laboratory Analyses																	
			Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate (as N) ¹	Kjeldahl Nitrogen (as N)	Ammonia (as N)	Total Nitrogen	Total Dissolved Solids (TDS)	Chloride	Total Sodium	Dissolved Sodium	Total Arsenic	Dissolved Arsenic	Total Boron	Dissolved Boron	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese
Analysis Method:			SM 9221 B	SM 9221 E	EPA 300.0	EPA 351.2	EPA 350.1	Calc	EPA 160.1	EPA 300.0	EPA 200.7	EPA 200.7	EPA 200.2	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	
Practical Quantitation Limit					0.10	0.20	0.10	0.30	10-20	0.50	0.5	0.5	0.050	0.050	0.10	0.10	0.05	0.050	0.010	0.010
Minimum Detection Limit					0.022	0.056	0.025	0.10	10-20	0.059	0.07	0.12	0.008	0.0092	0.012	0.0097	0.017	0.030	0.0025	0.0040
Units:			MPN/100ml	MPN/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MCL (2nd MCL or Ag-use threshold if shaded)			2.2	2.2	10		1.5		450	106		69	0.010	0.010		0.7	0.3	0.3	0.05	0.05
Water Wells																				
Scully Well #1		1/20/06	170	-2	0.1				311	31	39.8		-0.002				0.57		-0.020	
Scully Well #1		6/1/06			0.44				327	32	38.1		-0.002		0.14		0.083		-0.020	
Scully Well #1		9/19/06			0.29				330	31	37		-0.002		0.19		-0.050		-0.020	
Scully Well #1		12/12/06			0.078				293	29	38		-0.002		0.19		3.70		0.072	
Scully Well #1		3/23/07			0.35				320	32	36.2		-0.002		0.18		0.069		-0.020	
Scully Well #1		6/26/07			0.18				315	29	38		-0.002		0.19		0.209		-0.005	
Scully Well #1		9/28/07			-0.05				300	28	36		-0.002		0.17		0.100		-0.005	
Scully Well #1*		3/22/10	Present		0.063	0.22			320	37		41	-0.019			0.190		0.26		0.01
Scully Well #2		1/20/06	-2	-2	0.47				268	24	15.1		-0.002				17		0.027	
Scully Well #2*		3/22/10	Absent		0.15	-0.056			250	34		18	-0.019			0.069		0.2		0.0079
Sparrowk Well		1/20/06	50	-2	2.4				234	11	12.4		-0.002				0.30		-0.020	

Notes:

Negative (-) values indicate less than the detection limit

P-3 TOC elevation is ground surface.

¹ The Nitrate-N tabulation column includes analyses results for Nitrate-N +Nitrite-N.

* March 22, 2010 metals results for dissolved constituents

() MW4A well collar was modified in Summer 2010. Hydrograph indicates collar is less than 0.1 foot lower than originally surveyed.

^ Total Nitrogen starting 4th Quarter 2013 is Laboratory Calculated (annually).

~ Condor's Calculation.

	Green shaded cells indicate questionable or qualified analyses (e.g. exceeded hold time)
	Blue shaded cells indicate estimated value detected above minimum detection level but below practical quantitation limit.
	Yellow shaded cells indicate estimated value detected above 2nd MCLs or Ag-use threshold

nm* = test not performed because proper sample bottle was not available

Table 3
 Historical Annual Standard Minerals Data
 City of Ione - Wastewater Treatment Facility

Sample ID	Date	Standard Minerals Analyses																										Percent difference between cations and anions	
		Cations																Anions								Hardness			
		Total Calcium	Dissolved Calcium	Dissolved Magnesium	Total Sodium	Dissolved Sodium	Total Potassium	Dissolved Potassium	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Total Boron	Dissolved Boron	Total Arsenic	Dissolved Arsenic	Dissolved Aluminum	Cations (Calculated)	Chloride	Nitrate (as N)	Sulfate	Bicarbonate Alkalinity (CaCO ₃)	Carbonate Alkalinity (CaCO ₃)	Hydroxide Alkalinity (CaCO ₃)	Total Alkalinity (CaCO ₃)		Anions (Calculated)		
		EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.2	EPA 200.8	EPA 200.7		EPA 200.0	EPA 200.0	EPA 200.0	EPA 200.1	EPA 200.1	EPA 200.1	EPA 200.1				
Analysis Method:		0.10	0.10	0.05	0.5	0.5	1.0	1.0	0.05	0.05	0.01	0.01	0.1	0.10	0.050		0.05		0.5	0.1	1.0	4.1	4.1	4.1	4.1		Calc		
Practical Quantitation Limit		0.036	0.016	0.029	0.07	0.12	0.092	0.074	0.03	0.0093	0.0025	0.012	0.0097	0.0083		0.023		0.059	0.026	0.21	4.1	4.1	4.1	4.1		0.1			
	Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	meq	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	meq	mg/L		
MCL (2nd MCL or Ag-use threshold if shaded)						69			0.3	0.3	0.05	0.05			0.010	0.010			106	10	250								
Background Wells																													
MW1	7/16/02	33			10			0.16		-0.03								2.12	6.3	2.40	23	92	-1.0	-1.0	92	2.67	140	11.3%	
MW1	6/30/03	28			8.7			1.17		0.81			-0.01					1.84	6.6	0.55	24	101	-5.0	-5.0	101	2.74	115	19.8%	
MW1	9/30/03	27			8.2			1.12		1.12			0.04			-0.1		1.78	6.7	0.51	22	101	-5.0	-5.0	101	2.70	108	20.6%	
MW1	12/31/03	31			8.6			1.22		0.09		-0.02	-0.1					1.96	8.5	0.74	19	108	-5.0	-5.0	108	2.85	122	18.6%	
MW1	3/31/04	33			9.2			1.25		-0.05		-0.02	-0.1					2.08	8.4	1.70	30	110	-5.0	-5.0	110	3.18	132	21.0%	
MW1	6/30/04	29			8.8			1.19		0.31		-0.02	-0.1					1.87	7.2	1.20	28	101	-5.0	-5.0	101	2.89	116	21.4%	
MW1	10/1/04	32			14			1.66		41.5		0.87	0.1					3.77	9.9	0.82	23	110	-5.0	-5.0	110	3.01	132	-11.1%	
MW1	10/12/04	32			9.2			1.52		4.72		0.1	-0.1					2.21	8.3	1.20	26	102	-5.0	-5.0	102	2.90	124	13.5%	
MW1	1/4/05	33			9.58			1.46		1.01		-0.02	-0.1		-0.002			2.14	9.8	1.50	24	112	-5.0	-5.0	112	3.12	136	18.7%	
MW1	4/1/05	34			9.2			1.28		0.24		-0.02	-0.1		-0.002			2.14	8.9	2.70	32	108	-5.0	-5.0	108	3.27	146	20.9%	
MW1	6/30/05	32			9			1.27		0.08		-0.02	0.05		-0.002			2.02	8.1	3.00	30	99	-5.0	-5.0	99	3.05	132	20.2%	
MW1	10/11/05	33			9.9			1.3		0.13		-0.02	-0.05		-0.002			2.12	7.0	1.30	30	105	-5.0	-5.0	105	3.01	133	17.5%	
MW1	2/9/06	32			10.7			1.4		0.055		-0.02	0.09		-0.001			2.10	9.0	2.00	25	110	-5.0	-5.0	110	3.12	134	19.5%	
MW1	5/23/06	37			9.48			1.26		0.32		-0.02	-0.05		-0.002			2.30	7.2	3.80	25	106	-5.0	-5.0	106	3.11	143	15.0%	
MW1	8/24/06	37			11			1.6		0.83		0.036	0.05		-0.002			2.40	8.0	2.20	29	110	-5.0	-5.0	110	3.18	145	14.1%	
MW1	12/12/06	32			9.5			1.4		0.31		0.02	0.06		-0.002			2.06	6.8	0.99	21	100	-5.0	-5.0	100	2.70	124	13.5%	
MW1	3/13/07	28			8.4			1.22		0.13		-0.02	0.06		-0.002			1.80	7.5	0.81	23	93	-5.0	-5.0	93	2.61	124	18.3%	
MW1	6/25/07	29			8.9			1.2		0.036		-0.005	0.064		-0.002			1.87	6.3	0.84	25	82	-5.0	-5.0	82	2.40	113	12.4%	
MW1	9/27/07	28			9.8			1.4		0.17		0.007	-0.05		-0.002			1.87	6.7	0.99	22	84	-5.0	-5.0	84	2.40	113	12.5%	
MW1	12/27/07	30			9.8			1.5		1.9		0.077	0.054		-0.002			2.03	10	0.84	23	92	-5.0	-5.0	92	2.66	122	13.4%	
MW1	7/7/08	28			8.9			1.4		0.62		0.017	0.068		-0.002			1.84	8.8	0.66	28	90	-5.0	-5.0	90	2.68	110	18.4%	
MW1	10/10/08	29			8.5			1.3		0.325		0.0097	0.061		-0.002			1.86	9.3	0.93	23	100	-5.0	-5.0	100	2.81	119	20.2%	
MW1	12/29/08	35		14	11			1.5		1.6		0.046	0.059		-0.050			3.47	13	0.93	23	110	-4.1	-4.1	110	3.11	140	-5.5%	
MW1	3/11/09	34		14	9.9			1.3		0.42		0.013	0.046		0.008			3.33	9	0.86	25	100	-4.1	-4.1	100	2.83	140	-8.1%	
MW1	6/16/09	32		13	10			1.4		0.3		0.0068	0.057		-0.050			3.15	8.2	0.98	30	96	-4.1	-4.1	96	2.84	130	-5.1%	
MW1	12/15/09		27	11		8.3		1.2		-0.0093		-0.010		0.054				2.64	6.9	1.10	18	93	-4.1	-4.1	93	2.51	110	-2.7%	
MW1	12/13/10		27	11		9.3		1.2		-0.005		-0.001		0.060				2.69	6.2	0.61	20	99	-4.1	-4.1	99	2.61	110	-1.4%	
MW1	12/14/11		28	11		9.4		1.3		0.012		-0.001		0.056				2.74	6.5	0.54	18	110	-4.1	-4.1	110	2.79	120	0.9%	
MW1	12/19/12		26	10		8.3		1.1		0.0050		-0.001		0.049				2.51	5.7	0.58	19	88	-4.1	-4.1	88	2.36	110	-3.1%	
MW1	12/12/13		29	11		8.4		1.2		0.340		0.140		0.053		-0.0092	-0.023		7.6	0.79	19	100	-4.1	-4.1	100		120	0.0%	
MW1	12/18/14		29	12		9.1		1.3		-0.030		-0.0040		0.048		-0.0092	-0.023		9.5	1.90	16	87	-4.1	-4.1	87		120	0.0%	
MW1	12/16/15		37	15		10		1.3		0.140		0.0059		0.047		0.00040	-0.023		30	2.2	30	110	-4.1	-4.1	110		150	0.0%	
MW1	12/8/16		35	14		13		1.4		-0.030		0.0064		0.061		-0.00038	-0.023		10	1.2	23	110	-4.1	-4.1	110		150	0.0%	
MW1	12/5/17		31	12		10		1.3		-0.030		-0.0040		0.062		-0.00038	-0.023		10	0.64	19	110	-4.1	-4.1	110		130	0.0%	
MW1	12/17/18		24	9.5		8.6		1.1		-0.030		0.0028		0.038		-0.00038	0.017		7.4	0.53	17	90	-4.1	-4.1	90		100	-	
MW1	12/16/19		28	10		9.3		1.2		-0.030		0.0022		0.049		-0.00038	0.023		6.8	0.30	15	110	-4.1	-4.1	110		110	-	
MW1	12/15/20		27	11		9.4		1.3		-0.030		0.0019		0.059		0.00094	0.013		13.0	0.79	14	95	-4.1	-4.1	95		110	-	
MW1	12/14/21		30	11		9.5		1.3		-0.030		0.0015		0.044		-0.00038	0.0084		9.0	0.94	19	100	-4.1	-4.1	100		120	-	
MW1A	12/27/07	40			25			1.1		1.1		0.07		0.1		-0.002			3.15	29	1.4	19	122	-5.0	-5.0	122	3.75	162	8.7%
MW1A	7/7/08	47			19			0.86		0.38		0.015		0.082		-0.002			3.21	16	7.7	24	145	-5.0	-5.0	145	4.40	179	15.6%
MW1A	10/10/08	44			26			1.3		6.31		0.31		0.11		0.002			3.60	44	1.6	17	138	-4.1	-4.1	138	4.47	170	10.8%
MW1A	12/29/08	48		17	27			1.5		0.63		0.033		0.11		-0.050			5.03	28	3.2	20	160	-4.1	-4.1	160	4.63	190	-4.1%
MW1A	3/11/09	51		17	19			1.0																					

Table 3
Historical Annual Standard Minerals Data
City of Ione - Wastewater Treatment Facility

Sample ID	Date	Standard Minerals Analyses																							Hardness	Percent difference between cations and anions		
		Cations																	Anions									
		Total Calcium	Dissolved Calcium	Dissolved Magnesium	Total Sodium	Dissolved Sodium	Total Potassium	Dissolved Potassium	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Total Boron	Dissolved Boron	Total Arsenic	Dissolved Arsenic	Dissolved Aluminum	Cations (Calculated)	Chloride	Nitrate (as N)	Sulfate	Bicarbonate Alkalinity (CaCO ₃)	Carbonate Alkalinity (CaCO ₃)	Hydroxide Alkalinity (CaCO ₃)			Total Alkalinity (CaCO ₃)	Anions (Calculated)
		EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.2	EPA 200.8	EPA 200.7		EPA 200.0	EPA 900.0	EPA 300.0	EPA 310.1	EPA 310.1	EPA 310.1			EPA 310.1	
Analysis Method:		0.10	0.10	0.05	0.5	0.5	1.0	1.0	0.05	0.05	0.01	0.01	0.1	0.10	0.050		0.05		0.5	0.1	1.0	4.1	4.1	4.1	4.1			
Practical Quantitation Limit		0.036	0.016	0.029	0.07	0.12	0.092	0.074	0.03	0.0093	0.0025	0.0025	0.012	0.0097	0.0083		0.023		0.059	0.026	0.21	4.1	4.1	4.1	4.1			
Minimum Detection Limit																												
Units		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	meq	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	meq		
MCL (2nd MCL or Ag-use threshold if shaded)						69			0.3	0.3	0.05	0.05			0.010	0.010			106	10	250							
MW1A	12/8/16		51	18		33		0.83		-0.030		-0.0040		0.13		-0.00038	-0.023		56	0.33	26	140	-4.1	-4.1	140	200	0.00%	
MW1A	12/5/17		50	18		25		0.71		-0.030		-0.0040		0.10		-0.00038	-0.023		30	15	28	130	-4.1	-4.1	130	200	0.00%	
MW1A	12/17/18		39	14		32		0.90		-0.030		0.0036		0.10		-0.00038	0.029		34	2.4	20	150	-4.1	-4.1	150	160	-	
MW1A	12/16/19		45	15		30		0.61		-0.030		0.0034		0.10		-0.00038	0.013		39	6.0	22	140	-4.1	-4.1	140	180	-	
MW1A	12/15/20		42	16		26		0.56		-0.030		0.0078		0.085		-0.00038	0.022		40	3.5	20	130	-4.1	-4.1	130	170	-	
MW1A	12/14/21		33	12		19		0.76		-0.030		0.0071		0.078		-0.00038	0.011		16	1.9	19	110	-4.1	-4.1	110	130	-	
WWTP Wells																												
MW2	7/16/02	42			45		4.5		0.2		4.0						4.32	31	-0.50	21	170	-1.0	-1.0	170	4.73	170	4.5%	
MW2	6/30/03	34			36		4.02		4.63		3.66		0.01				3.66	32	-0.05	11	178	-5.0	-5.0	178	4.69	142	12.3%	
MW2	9/30/03	34			36		3.96		3.99		3.71		0.26				3.64	32	-0.05	7.7	200	-5.0	-5.0	200	5.06	151	16.3%	
MW2	12/31/03	34			36		4.44		3.32		4.22		0.22				3.65	32	-0.05	5.9	198	-5.0	-5.0	198	4.98	155	15.5%	
MW2	3/31/04	36			38		4.42		3.06		4.74		0.21				3.84	35	-0.05	4.9	198	-5.0	-5.0	198	5.05	167	13.5%	
MW2	6/30/04	37			39		4.34		3.51		4.57		0.25				3.95	34	-0.05	5.9	198	-5.0	-5.0	198	5.04	159	12.2%	
MW2	10/1/04	41			40		4.37		3.62		5.2		0.26				4.22	36	-0.05	5.6	214	-5.0	-5.0	214	5.41	167	12.4%	
MW2	1/4/05	36			39		4.88		3.27		4.16		0.23		0.0073		3.89	36	-0.05	10	191	-5.0	-5.0	191	5.04	149	12.9%	
MW2	4/1/05	32			33		4.04		2.7		3.66		0.2		0.0046		3.37	34	-0.05	16	156	-5.0	-5.0	156	4.41	130	13.4%	
MW2	6/30/05	30			31		3.93		2.52		2.9		0.2		0.0051		3.14	30	-0.05	18	137	-5.0	-5.0	137	3.96	124	11.5%	
MW2	10/14/05	30			36		4.2		2.37		2.82		0.22		0.0061		3.36	34	-0.05	16	137	-5.0	-5.0	137	4.03	125	9.1%	
MW2	2/10/06	25			34.1		3.04		1.91		2.26		0.26		0.005		2.96	34	-0.05	16	114	-5.0	-5.0	114	3.57	103	9.4%	
MW2	5/23/06	24			29.1		3.64		2.02		2.53		0.17		0.0055		2.72	27	-0.05	18	103	-5.0	-5.0	103	3.20	95	8.0%	
MW2	8/24/06	22			32		3.5		1.9		2.4		0.15		0.0057		2.73	25	-0.05	14	110	-5.0	-5.0	110	3.20	96	7.8%	
MW2	12/12/06	24			34		4.4		2.1		2.9		0.22		0.0064		2.97	29	-0.05	9.2	116	-5.0	-5.0	116	3.33	96	5.7%	
MW2	3/13/07	22			32.6		3.97		1.8		2.6		0.19		0.0053		2.78	33	-0.05	10	112	-5.0	-5.0	112	3.38	96	9.8%	
MW2	6/25/07	22			31		3.6		1.63		2.25		0.17		0.0042		2.68	30	-0.05	14	103	-5.0	-5.0	103	3.20	96	8.8%	
MW2	9/27/07	25			36		4.0		1.9		2.7		0.16		0.0064		3.08	30	-0.05	12	111	-5.0	-5.0	111	3.32	101	3.7%	
MW2	12/26/07	36			40		4.8		2.5		4.2		0.19		0.0065		3.90	35	-0.05	59	111	-5.0	-5.0	111	4.44	145	6.4%	
MW2	7/7/08	33			39		4.3		2.8		3.0		0.15		0.0067		3.66	34	-0.05	56	119	-5.0	-5.0	119	4.50	136	10.3%	
MW2	10/10/08	32			36		4.2		2.14		3.93		0.17		0.005		3.49	41	-0.05	35	136	-5.0	-5.0	136	4.60	138	13.8%	
MW2	12/30/08	36		12	44		4.9		3.1		4.9		0.21		0.013		5.11	40	0.05	30	140	-4.1	-4.1	140	4.55	140	-5.8%	
MW2	3/12/09	32		11	41		4.6		2.6		5		0.21		0.011		4.68	42	-0.10	18	140	-4.1	-4.1	140	4.36	120	-3.5%	
MW2	6/16/09	39		21	42		6.6		69		5.1		0.19		0.033		8.33	39	0.06	13	140	-4.1	-4.1	140	4.17	180	-33.2%	
MW2	12/15/09		30	10		37		4.8		2.30		3.90		0.22			4.28	43	-0.10	11	130	-4.1	-4.1	130	4.04	120	-2.8%	
MW2	12/13/10		30	9.6		43		4.5		2.30		4.10		0.22			4.50	41	-0.014	5.9	160	-4.1	-4.1	160	4.48	110	-0.3%	
MW2	12/14/11		31	10		44		4.7		2.30		4.00		0.20			4.63	37	-0.021	7.3	170	-4.1	-4.1	170	4.59	120	-0.4%	
MW2	12/19/12		34	11		44		5.0		2.40		5.20		0.18			4.92	42	-0.021	6.6	180	-4.1	-4.1	180	4.92	130	0.0%	
MW2	12/11/13		36	12		45		4.6		2.90		4.90		0.17		-0.0092	-0.050		53	-0.025	7.4	190	-4.1	-4.1	190		140	0.0%
MW2	12/18/14		35	13		45		5.0		2.50		4.20		0.16		-0.0092	0.034		47	-0.018	30	140	-4.1	-4.1	140		140	0.0%
MW2	12/15/15		29	10		39		4.1		2.30		2.80		0.16		0.0065	-0.023		45	-0.018	24	130	-4.1	-4.1	130		110	0.0%
MW2	12/8/16		36	13		48		4.9		2.80		3.30		0.20		0.0067	0.030		47	-0.022	21	140	-4.1	-4.1	140		140	0.0%
MW2	12/6/17		27	8.9		38		4.2		1.90		3.10		0.16		0.0058	-0.050		35	-0.021	23	110	-4.1	-4.1	110		100	0.0%
MW2	12/17/18		33	11		42		4.5		-0.030		3.2		0.14		0.0019	0.0062		41	0.030	20	160	-4.1	-4.1	160		130	-
MW2	12/16/19		35	11		45		4.9		0.36		4.7		0.16		0.0046	-0.0030		42	-0.025	15	190	-4.1	-4.1	190		130	-
MW2	12/15/20		29	10		39		4.2		0.11		3.1		0.15		0.0032	-0.0030		45	0.047	29	130	-4.1	-4.1	130		110	-
MW2	12/14/21		31	10		23		3.5		-0																		

Table 3
Historical Annual Standard Minerals Data
City of Ione - Wastewater Treatment Facility

Sample ID	Date	Standard Minerals Analyses																									Hardness	Percent difference between cations and anions
		Cations																Anions										
		Total Calcium	Dissolved Calcium	Dissolved Magnesium	Total Sodium	Dissolved Sodium	Total Potassium	Dissolved Potassium	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Total Boron	Dissolved Boron	Total Arsenic	Dissolved Arsenic	Dissolved Aluminum	Cations (Calculated)	Chloride	Nitrate (as N)	Sulfate	Bicarbonate Alkalinity (CaCO ₃)	Carbonate Alkalinity (CaCO ₃)	Hydroxide Alkalinity (CaCO ₃)	Total Alkalinity (CaCO ₃)	Anions (Calculated)		
		EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.2	EPA 200.8	EPA 200.7	EPA 200.0	EPA 300.0	EPA 300.0	EPA 300.0	EPA 310.1	EPA 310.1	EPA 310.1	EPA 310.1	EPA 310.1		
Analysis Method:		0.10	0.10	0.05	0.5	0.5	1.0	1.0	0.05	0.05	0.01	0.01	0.1	0.10	0.050		0.05	0.5	0.1	1.0	4.1	4.1	4.1	4.1		Calc		
Practical Quantitation Limit		0.036	0.016	0.029	0.07	0.12	0.092	0.074	0.03	0.0093	0.0025	0.0025	0.012	0.0097	0.0083		0.023	0.059	0.026	0.21	4.1	4.1	4.1	4.1		0.5		
Minimum Detection Limit		0.036	0.016	0.029	0.07	0.12	0.092	0.074	0.03	0.0093	0.0025	0.0025	0.012	0.0097	0.0083		0.023	0.059	0.026	0.21	4.1	4.1	4.1	4.1		0.1		
	Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	meq	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	meq	mg/L		
MCL (2nd MCL or Ag-use threshold if shaded)						69			0.3	0.3	0.05	0.05			0.010	0.010		106	10	250								
MW3	7/16/02	59			48		3.5		-0.1		5.4						5.32	32	-0.5	20	210	-1.0	-1.0	210	5.53	230	2.0%	
MW3	6/30/03	50			40		2.82		0.46		4.34		0.26				4.48	33	-0.05	22	226	-5.0	-5.0	226	5.91	207	13.7%	
MW3	9/30/03	47			38		2.6		0.72		4.1		0.24				4.24	34	-0.05	18	230	-5.0	-5.0	230	5.93	201	16.6%	
MW3	12/31/03	59			40		2.84		0.59		4.14		0.26				4.93	33	-0.05	12	258	-5.0	-5.0	258	6.34	224	12.5%	
MW3	3/31/04	58			39		2.75		0.28		4.02		0.3				4.82	33	-0.05	10	260	-5.0	-5.0	260	6.34	217	13.6%	
MW3	6/30/04	51			40		2.63		0.33		4.0		0.26				4.51	31	-0.05	7.9	238	-5.0	-5.0	238	5.80	202	12.5%	
MW3	10/1/04	49			38		2.59		0.1		3.88		0.28				4.31	33	-0.05	6.2	218	-5.0	-5.0	218	5.42	191	11.4%	
MW3	1/4/05	55			42		3.29		0.12		4.41		0.24		-0.002		4.82	34	0.11	4.3	265	-5.0	-5.0	265	6.35	208	13.7%	
MW3	4/1/05	56			40		2.71		0.09		4.38		0.25		-0.002		4.77	36	-0.05	6.1	252	-5.0	-5.0	252	6.18	216	12.9%	
MW3	6/30/05	53			36		2.84		0.14		4.07		0.22		-0.002		4.44	34	-0.05	7	232	-5.0	-5.0	232	5.74	208	12.8%	
MW3	10/14/05	49			38		2.8		0.08		3.8		0.2		-0.002		4.31	32	0.48	8.1	215	-5.0	-5.0	215	5.40	192	11.2%	
MW3	2/13/06	48			40		3.02		0.136		3.87		0.28		0.0008		4.36	30	-0.05	7.7	220	-5.0	-5.0	220	5.40	188	10.7%	
MW3	5/23/06	49			35.6		2.85		0.31		4.63		0.21		-0.002		4.25	29	-0.05	6.99	211	-5.0	-5.0	211	5.18	195	9.9%	
MW3	8/25/06	45			36		2.6		0.23		3.9		0.2		-0.002		4.03	29	-0.05	8.4	192	-5.0	-5.0	192	4.83	179	9.1%	
MW3	12/12/06	48			37		2.8		0.1		3.8		0.21		-0.002		4.22	26	0.34	6.3	197	-5.0	-5.0	197	4.83	185	6.7%	
MW3	3/13/07	46			34		2.95		0.24		3.9		0.2		-0.002		4.0	28	-0.05	5.5	190	-5.0	-5.0	190	4.70	182	8.1%	
MW3	6/25/07	39			34		2.5		0.217		3.59		0.19		-0.002		3.63	28	-0.05	7.0	160	-5.0	-5.0	160	4.13	145	6.5%	
MW3	9/27/07	39			37		2.5		0.20		3.3		0.18		-0.002		3.75	30	-0.05	6.4	159	-5.0	-5.0	159	4.16	153	5.2%	
MW3	12/31/07	48			38		2.6		0.061		3.4		0.22		-0.002		4.24	29	0.93	13	176	-5.0	-5.0	176	4.67	186	4.8%	
MW3	7/7/08	53			44		3.2		4.70		4.3		0.18		0.0029		4.97	37	0.19	23	205	-5.0	-5.0	205	5.63	199	6.3%	
MW3	10/10/08	46			34		2.5		0.117		3.56		0.18		-0.002		3.97	38	-0.05	31	178	-5.0	-5.0	178	5.28	186	14.1%	
MW3	12/30/08	55		16	44		3.0		0.11		5.3		0.23		0.011		6.25	37	-0.10	25	200	-4.1	-4.1	200	5.56	200	-5.8%	
MW3	3/12/09	54		16	42		2.9		0.12		5.5		0.23		0.017		6.12	39	1.20	20	200	-4.1	-4.1	200	5.60	200	-4.4%	
MW3	6/16/09	44		14	42		3.2		0.16		4.5		0.21		-0.05		5.43	40	0.090	15	200	-4.1	-4.1	200	5.44	170	0.2%	
MW3	12/15/09		48	14		42		2.6		0.084		4.10		0.21			5.59	39	0.073	8.3	200	-4.1	-4.1	200	5.27	180	-2.9%	
MW3	12/14/10		45	13		40		2.7		0.092		3.90		0.21			5.27	36	1.8	4.1	200	-4.1	-4.1	200	5.23	170	-0.4%	
MW3	12/14/11		47	14		41		2.9		0.059		4.00		0.20			5.50	38	2.1	4.3	210	-4.1	-4.1	210	5.51	170	0.0%	
MW3	12/18/12		46	14		43		2.9		0.068		4.30		0.19			5.55	38	1.6	3.3	220	-4.1	-4.1	220	5.65	170	0.9%	
MW3	12/12/13		47	14		41		2.9		0.096		4.50		0.18		-0.0092	-0.023	48	-0.025	3.0	220	-4.1	-4.1	220		180	0.0%	
MW3	12/18/14		52	16		47		3.0		-0.030		4.60		0.18		-0.0092	-0.023	41	-0.018	17	210	-4.1	-4.1	210		200	0.0%	
MW3	12/16/15		44	13		40		2.8		0.160		4.20		0.16		0.0010	-0.023	48	0.057	26	190	-4.1	-4.1	190		160	0.0%	
MW3	12/8/16		58	17		47		3.0		0.073		5.10		0.20		0.00057	-0.023	49	-0.022	16	210	-4.1	-4.1	210		220	0.0%	
MW3	12/6/17		45	13		38		2.9		0.038		4.10		0.18		-0.00038	-0.023	42	3.4	15	180	-4.1	-4.1	180		170	0.0%	
MW3	12/17/18		47	12		41		3.2		0.030		3.7		0.17		0.00084	0.01	45	0.026	14	190	-4.1	-4.1	190		170	-	
MW3	12/16/19		49	13		45		3.5		0.034		4.3		0.18		-0.00038	-0.0030	47	-0.025	13	210	-4.1	-4.1	210		180	-	
MW3	12/15/20		36	11		39		3.2		-0.030		3.4		0.16		0.00082	0.012	43	0.085	23	150	-4.1	-4.1	150		130	-	
MW3	12/14/21		39	11		43		3.2		-0.030		3.5		0.14		-0.00038	0.0048	54	0.066	20	150	-4.1	-4.1	150		140	-	
MW3A	12/26/07	35			38		5.4		6.10		5.6		0.20		0.011		3.96	33	0.17	21	152	-5.0	-5.0	152	4.42	141	5.5%	
MW3A	7/7/08	33			38		4.8		8.30		5.7		0.16		0.01		3.93	34	-0.05	45	147	-5.0	-5.0	147	4.84	136	10.4%	
MW3A	10/10/08	38			37		5.2		5.96		5.84		0.19		0.013		4.06	39	-0.05	19	188	-5.0	-5.0	188	5.25	150	12.8%	
MW3A	12/30/08	40		12	44		17.00				8.1		0.23		0.018		5.80	42	-0.1	12								

Table 3
Historical Annual Standard Minerals Data
City of Ione - Wastewater Treatment Facility

Sample ID	Date	Standard Minerals Analyses																						Hardness	Percent difference between cations and anions			
		Cations																Anions										
		Total Calcium	Dissolved Calcium	Dissolved Magnesium	Total Sodium	Dissolved Sodium	Total Potassium	Dissolved Potassium	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Total Boron	Dissolved Boron	Total Arsenic	Dissolved Arsenic	Dissolved Aluminum	Cations (Calculated)	Chloride	Nitrate (as N)	Sulfate	Bicarbonate Alkalinity (CaCO ₃)	Carbonate Alkalinity (CaCO ₃)			Hydroxide Alkalinity (CaCO ₃)	Total Alkalinity (CaCO ₃)	Anions (Calculated)
		EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.2	EPA 200.8	EPA 200.7		EPA 200.0	EPA 200.0	EPA 200.0	EPA 200.1	EPA 200.1			EPA 200.1	EPA 200.1	
Analysis Method:		0.10	0.10	0.05	0.5	0.5	1.0	1.0	0.05	0.05	0.01	0.01	0.1	0.10	0.050		0.05		0.5	0.1	1.0	4.1	4.1	4.1	4.1	Calc		
Practical Quantitation Limit		0.036	0.016	0.029	0.07	0.12	0.092	0.074	0.03	0.0093	0.0025	0.0025	0.012	0.0097	0.0083		0.023		0.059	0.026	0.21	4.1	4.1	4.1	4.1	0.5		
Minimum Detection Limit		0.036	0.016	0.029	0.07	0.12	0.092	0.074	0.03	0.0093	0.0025	0.0025	0.012	0.0097	0.0083		0.023		0.059	0.026	0.21	4.1	4.1	4.1	4.1	0.1		
	Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	meq	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	meq		
MCL (2nd MCL or Ag-use threshold if shaded)						69			0.3	0.3	0.05	0.05			0.010	0.010			106	10	250							
MW3A	12/5/17		30	8.9		40		5.0		3.40		5.20		0.21		0.011	-0.023		41	-0.021	19	150	-4.1	-4.1	150	110	0.0%	
MW3A	12/17/18		37	11		46		5.5		0.031		5.7		0.15		0.0034	0.0031		46	0.053	12	200	-4.1	-4.1	200	140	-	
MW3A	12/16/19		36	10		45		5.1		0.99		6.0		0.18		0.0060	0.0030		44	-0.025	12	200	-4.1	-4.1	200	130	-	
MW3A	12/15/20		29	8.9		37		4.5		0.14		4.7		0.16		0.0034	-0.0030		42	0.065	27	140	-4.1	-4.1	140	110	-	
MW3A	12/14/21		40	11		44		5.5		1.0		6.4		0.16		0.0029	-0.0030		43	-0.024	60	150	-4.1	-4.1	150	150	-	
MW4	7/16/02	46			21		-1.0		0.13		0.11							3.22	27	-0.5	19	120	-1.0	-1.0	120	3.57	180	5.2%
MW4	6/30/03	45			29		0.52		1.28		0.11		0.21					3.57	35	-0.05	21	170	-5.0	-5.0	170	4.82	174	14.9%
MW4	9/30/03	44			31		0.43		0.1		0.04		0.17					3.56	35	-0.05	14	193	-5.0	-5.0	193	5.14	185	18.1%
MW4	12/31/03	46			31		0.48		-0.05		0.03		0.15					3.66	43	-0.05	15	178	-5.0	-5.0	178	5.08	180	16.3%
MW4	3/31/04	41			31		0.43		-0.05		0.04		0.15					3.41	42	0.2	17	164	-5.0	-5.0	164	4.83	159	17.3%
MW4	6/30/04	40			31		0.39		-0.05		0.05		0.18					3.36	34	-0.05	17	166	-5.0	-5.0	166	4.63	159	16.0%
MW4	10/1/04	37			33		0.41		-0.05		0.05		0.21					3.29	37	-0.05	18	158	-5.0	-5.0	158	4.58	154	16.3%
MW4	1/4/05	33			32		0.51		-0.05		0.04		0.17		-0.002			3.05	32	-0.05	16	137	-5.0	-5.0	137	3.98	130	13.1%
MW4	4/1/05	33			31		0.38		-0.05		0.06		0.16		-0.002			3.01	32	0.063	23	134	-5.0	-5.0	134	4.06	134	14.9%
MW4	6/30/05	34			31		0.63		2.24		0.09		0.18		-0.002			3.14	33	-0.05	16	138	-5.0	-5.0	138	4.02	132	12.3%
MW4	10/7/05	38			37		0.55		0.78		0.09		0.18		-0.002			3.55	36	-0.05	25	141	-5.0	-5.0	141	4.36	143	10.2%
MW4	2/13/06	29			30.8		0.44		-0.05		0.085		0.17		-0.001			2.80	31	-0.05	25	106	-5.0	-5.0	106	3.51	112	11.3%
MW4	5/23/06	32			27.6		0.664		0.27		0.094		0.11		-0.002			2.83	22	-0.05	24	111	-5.0	-5.0	111	3.34	119	8.3%
MW4	8/24/06	32			31		0.44		0.17		0.11		0.15		-0.002			2.97	25	-0.05	24	121	-5.0	-5.0	121	3.62	123	10.0%
MW4	12/12/06	27			31		0.42		0.19		0.11		0.16		-0.002			2.72	36	-0.05	15	96	-5.0	-5.0	96	3.25	108	8.9%
MW4	3/13/07	27			26		0.401		0.084		0.12		0.10		-0.002			2.50	35	-0.05	18	82	-5.0	-5.0	82	3.0	106	9.2%
MW4	6/25/07	27			27		0.374		0.056		0.12		0.10		-0.002			2.54	30	-0.05	19	85	-5.0	-5.0	85	2.94	109	7.4%
MW4	9/27/07	32			34		0.39		0.029		0.15		0.11		-0.002			3.09	36	-0.05	27	98	-5.0	-5.0	98	3.54	123	6.7%
MW4	12/27/07	34			39		0.48		0.022		0.18		0.17		-0.002			3.41	53	-0.05	25	108	-5.0	-5.0	108	4.18	137	10.1%
MW4	7/7/08	28			34		0.4		0.021		0.20		0.13		-0.002			2.89	50	-0.05	24	88	-5.0	-5.0	88	3.67	114	11.8%
MW4	10/10/08	32			33		0.44		-0.002		0.203		0.15		-0.002			3.05	49	-0.05	25	108	-5.0	-5.0	108	4.06	126	14.2%
MW4	12/30/08	37		13	37		0.78		1.2		0.66		0.12		0.010			4.61	46	-0.1	24	120	-4.1	-4.1	120	4.20	140	-4.7%
MW4	3/12/09	38		13	43		0.58		2.7		0.39		0.18		-0.050			4.96	44	-0.10	26	130	-4.1	-4.1	130	4.38	150	-6.2%
MW4	6/16/09	35		12	43		0.44		0.5		0.3		0.17		-0.050			4.64	37	-0.100	22	130	-4.1	-4.1	130	4.10	140	-6.2%
MW4	12/15/09		37	13		46		0.54		0.12		0.37		0.21				4.95	57	-0.100	19	130	-4.1	-4.1	130	4.60	140	-3.6%
MW4	12/14/10	32		11		46		0.40		0.019		0.42		0.22				4.53	54	-0.014	13	130	-4.1	-4.1	130	4.39	130	-1.5%
MW4	12/14/11	29		10		44		0.43		0.007		0.44		0.19				4.21	40	-0.021	13	140	-4.1	-4.1	140	4.20	110	-0.2%
MW4	12/18/12		34	11		46		0.42		0.022		0.44		0.16				4.63	46	-0.021	7.2	160	-4.1	-4.1	160	4.65	130	0.2%
MW4	12/11/13	32		11		43		0.38		-0.030		0.59		0.15		-0.0092	-0.023		46	-0.025	8.6	150	-4.1	-4.1	150		130	0.0%
MW4	12/18/14		35	13		44		0.40		-0.030		0.67		0.14		-0.0092	-0.023		36	-0.018	13	150	-4.1	-4.1	150		140	0.0%
MW4	12/16/15		34	12		40		0.26		0.077		0.69		0.12		0.00045	-0.023		42	0.21	28	140	-4.1	-4.1	140		130	0.0%
MW4	12/9/16		47	16		53		0.38		0.038		1.00		0.16		-0.00038	-0.023		47	2.6	40	140	-4.1	-4.1	140		180	0.0%
MW4	12/5/17		36	12		45		0.32		-0.030		0.91		0.20		-0.00038	-0.023		45	0.36	32	150	-4.1	-4.1	150		140	0.0%
MW4	12/17/18		39	13		41		0.58		-0.030		0.94		0.13		-0.00038	-0.003		38	0.26	29	160	-4.1	-4.1	160		150	-
MW4	12/16/19		37	12		44		0.29		-0.030		0.99		0.18		-0.00038	-0.003		38	0.								

Table 3
Historical Annual Standard Minerals Data
City of Ione - Wastewater Treatment Facility

Sample ID	Date	Standard Minerals Analyses																									Hardness	Percent difference between cations and anions
		Cations															Anions											
		Total Calcium	Dissolved Calcium	Dissolved Magnesium	Total Sodium	Dissolved Sodium	Total Potassium	Dissolved Potassium	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Total Boron	Dissolved Boron	Total Arsenic	Dissolved Arsenic	Dissolved Aluminum	Cations (Calculated)	Chloride	Nitrate (as N)	Sulfate	Bicarbonate Alkalinity (CaCO ₃)	Carbonate Alkalinity (CaCO ₃)	Hydroxide Alkalinity (CaCO ₃)	Total Alkalinity (CaCO ₃)	Anions (Calculated)		
		EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.2	EPA 200.8	EPA 200.7		EPA 200.0	EPA 300.0	EPA 300.0	EPA 310.1	EPA 310.1	EPA 310.1	EPA 310.1			
Analysis Method:		0.10	0.10	0.05	0.5	0.5	1.0	1.0	0.05	0.05	0.01	0.01	0.1	0.10	0.050		0.05		0.5	0.1	1.0	4.1	4.1	4.1	4.1			
Practical Quantitation Limit		0.036	0.016	0.029	0.07	0.12	0.092	0.074	0.03	0.0093	0.0025	0.0025	0.012	0.0097	0.0083		0.023		0.059	0.026	0.21	4.1	4.1	4.1	4.1			
Minimum Detection Limit		0.036	0.016	0.029	0.07	0.12	0.092	0.074	0.03	0.0093	0.0025	0.0025	0.012	0.0097	0.0083		0.023		0.059	0.026	0.21	4.1	4.1	4.1	4.1			
Units		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	meq	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	meq		
MCL (2nd MCL or Ag-use threshold if shaded)						69			0.3	0.3	0.05	0.05			0.010	0.010			106	10	250							
MW4A	12/18/14		36	13		21		0.24		-0.030		0.042		0.083		-0.0092	-0.023	3.79	16	0.31	21	120	-4.1	-4.1	120	140	0.0%	
MW4A	12/16/15		37	13		19		0.21		0.064		0.028		0.073		0.00040	-0.023	3.75	19	0.86	28	140	-4.1	-4.1	140	150	0.0%	
MW4A	12/9/16		56	19		26		0.37		-0.030		0.028		0.091		-0.00038	-0.023		32	1.8	35	140	-4.1	-4.1	140	220	0.0%	
MW4A	12/5/17		45	15		28		0.37		-0.030		0.043		0.100		-0.00038	-0.023		35	2.4	35	150	-4.1	-4.1	150	170	0.0%	
MW4A	12/17/18		42	14		27		0.24		-0.030		0.033		0.075		-0.00038	0.0063		18	0.62	33	160	-4.1	-4.1	160	160	-	
MW4A	12/16/19		42	14		29		0.16		-0.030		0.024		0.090		-0.00038	0.0180		25	0.57	29	150	-4.1	-4.1	150	160	-	
MW4A	12/15/20		37	13		26		0.16		-0.030		0.017		0.086		-0.00038	0.0160		18	0.24	26	150	-4.1	-4.1	150	150	-	
MW4A	12/14/21		36	12		25		0.26		-0.030		0.0077		0.090		-0.00038	0.0088		25	1.5	26	120	-4.1	-4.1	120	140	-	
MW5A	12/31/07	47			24		0.61		0.32		0.28		0.095		-0.002			3.43	26	-0.05	26	130	-5.0	-5.0	130	3.87	178	6.1%
MW5A	7/2/08	38			17		0.62		0.65		0.27		0.071		-0.002			2.68	18	0.6	25	125	-5.0	-5.0	125	3.57	144	14.1%
MW5A	10/10/08	37			15		0.49		0.099		0.132		0.076		-0.002			2.52	11	0.85	26	116	-5.0	-5.0	116	3.23	128	12.4%
MW5A	12/30/08	38		13	16		0.57		0.017		0.088		0.084		-0.050			3.68	8.3	0.70	26	120	-4.1	-4.1	120	3.22	150	-6.6%
MW5A	3/12/09	47		15	21		0.57		0.026		0.21		0.091		0.011			4.52	23	0.44	30	140	-4.1	-4.1	140	4.10	180	-4.8%
MW5A	6/16/09	49		17	23		0.61		-0.03		0.17		0.086		-0.050			4.87	26	0.15	27	150	-4.1	-4.1	150	4.30	190	-6.1%
MW5A	12/15/09		37	13		15		0.61		-0.0093		0.079		0.085				3.59	19	0.60	22	120	-4.1	-4.1	120	3.43	150	-2.2%
MW5A	12/14/10		48	16		23		0.55		-0.0050		0.16		0.10				4.73	35	0.082	19	150	-4.1	-4.1	150	4.39	190	-3.8%
MW5A	12/14/11		37	13		20		0.58		-0.0050		0.23		0.084				3.81	15	0.83	22	130	-4.1	-4.1	130	3.54	150	-3.7%
MW5A	12/19/12		43	15		22		0.48		-0.0050		0.36		0.085				-	-	17	140	-4.1	-4.1	140		170	0.0%	
MW5A	12/11/13		36	13		19		0.48		0.098		0.12		0.081		-0.0092	0.110		36	0.19	15	120	-4.1	-4.1	120		140	0.0%
MW5A	12/18/14		39	14		21		0.50		-0.030		0.042		0.083		-0.0092	-0.023		22	0.50	20	130	-4.1	-4.1	120		160	0.0%
MW5A	12/16/15		40	14		18		0.51		0.059		0.039		0.070		0.00038	-0.023		33	1.5	29	120	-4.1	-4.1	120		160	0.0%
MW5A	12/9/16		54	18		25		0.72		-0.030		0.086		0.091		-0.00038	-0.023		35	1.8	32	140	-4.1	-4.1	140		210	0.0%
MW5A	12/5/17		41	14		27		0.63		-0.030		0.24		0.11		-0.00038	-0.023		22	3.2	33	140	-4.1	-4.1	140		160	0.0%
MW5A	12/17/18		38	13		19		0.54		-0.030		0.059		0.070		-0.00038	-0.0030		15	0.99	26	140	-4.1	-4.1	140		150	-
MW5A	12/16/19		39	13		24		0.47		-0.030		0.240		0.092		-0.00038	-0.0030		20	0.73	26	140	-4.1	-4.1	140		150	-
MW5A	12/15/20		35	13		19		0.45		-0.030		0.13		0.076		-0.00038	0.0042		20	1.1	20	120	-4.1	-4.1	120		140	-
MW5A	12/14/21		35	13		19		0.45		-0.030		0.13		0.076		-0.00038	0.0042		20	1.1	20	120	-4.1	-4.1	120		140	-
Sutter Creek Surface Water																												
SC1	10/1/04	46			38		3.18		0.11		0.11		0.24						47.0	-0.05	47					191		
SC2	10/1/04	46			38		3.18		0.11		0.11		0.24					4.04	47	-0.05	47					2.31	191	
SC2	10/4/05	33			29		2.85		0.35		0.38		0.23					3.01	30	0.36	20					1.29	134	
SC2	6/29/07	35		13	22		2		0.13		0.13		0.094		0.0026			3.83	21	0.37	32					1.29	141	
SC2	8/28/07	39		14	33		3.7		0.42		0.57		0.1		0.0031			4.66	32	-0.05	41					1.76	153	
SC2	10/30/08	41		16	35		2.7		0.149		0.261		0.18		0.0023			4.97	50	0.32	47					2.41	168	
SC2	12/29/08	33		11	11		1.8		0.087		0.10		0.04		-0.05			3.08	8.4	0.58	25					0.80	130	
SC2	3/12/09	28		9.8	8.2		1.2		0.37		0.05		0.033		0.0091			2.61	5.4	0.52	19					0.59	110	
SC2	6/16/09	34		13	20		2.0		0.27		0.18		0.091		-0.05			3.70	15	0.41	25					0.97	140	
SC2	12/16/09				9.2				0.087		0.048		0.042					0.41	7.7	0.62						0.26		
SC3	10/1/04	38			33		3.42		1.34		3.9		0.18					3.61	31	-0.05	22					1.33	158	
SC3	1/4/05	20			6.48		1.24		0.54		0.03		-0.1					1.33	5.7	0.99						0.23	79	
SC3	4/1/05	19			5		1.12		0.51		0.03		-0.1					1.21	3.8	0.33	11					0.36	71	
SC3	6/30/05	28			8		1.16		0.06		0.03		-0.05					1.78	6.6	0.14	14					0.49	108	
SC3	10/6/05	33			29		2.48		0.33		1.2		0.21					3.03	27.0	0.61	18							

Table 3
Historical Annual Standard Minerals Data
City of Ione - Wastewater Treatment Facility

Sample ID	Date	Standard Minerals Analyses																						Hardness	Percent difference between cations and anions			
		Cations																	Anions									
		Total Calcium	Dissolved Calcium	Dissolved Magnesium	Total Sodium	Dissolved Sodium	Total Potassium	Dissolved Potassium	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Total Boron	Dissolved Boron	Total Arsenic	Dissolved Arsenic	Dissolved Aluminum	Cations (Calculated)	Chloride	Nitrate (as N)	Sulfate	Bicarbonate Alkalinity (CaCO ₃)	Carbonate Alkalinity (CaCO ₃)			Hydroxide Alkalinity (CaCO ₃)	Total Alkalinity (CaCO ₃)	Anions (Calculated)
		EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.2	EPA 200.8	EPA 200.7		EPA 200.0	EPA 200.0	EPA 200.0	EPA 100.1	EPA 100.1			EPA 100.1	EPA 100.1	Calc
Analysis Method:		0.10	0.10	0.05	0.5	0.5	1.0	1.0	0.05	0.05	0.01	0.01	0.1	0.10	0.050		0.05		0.5	0.1	1.0	4.1	4.1	4.1	4.1	0.5		
Minimum Detection Limit		0.036	0.016	0.029	0.07	0.12	0.092	0.074	0.03	0.0093	0.0025	0.0025	0.012	0.0097	0.0083		0.023		0.059	0.026	0.21	4.1	4.1	4.1	4.1	0.1		
	Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	meq	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	meq	mg/L		
MCL (2nd MCL or Ag-use threshold if shaded)						69			0.3	0.3	0.05	0.05			0.010	0.010			106	10	250							
SC3	12/31/07	31		8.4	9.7		1.3		0.11		0.12		-0.05		0.0043			2.70	9.2	0.17	22				0.73	112		
SC3	10/30/08	33		14	34		3.1		6.15		3.68		0.17		0.0120			4.71	44.0	0.08	31				1.89	138		
SC4	10/1/04	34			21		3.53		0.42		0.11		0.11					2.72	27	1	58				2.04	148		
SC4	10/4/05	32			23		1.97		0.15		0.08		0.16					2.66	19	1.3	24				1.13	134		
SC4	9/6/06	27			13		2.04		0.3		0.037		0.06		0.0021			1.98	9.9	0.71	20				0.75	111		
SC4	6/29/07	31		12	12		1.5		0.15		0.036		0.062		-0.002			3.10	10	0.68	24				0.83	125		
SC4	12/29/08	30		10	9.6		1.5		0.018		0.0079		0.032		-0.050			2.78	7.3	0.57	24				0.75	125		
SC4	3/12/09	27		9.4	7.6		1.2		0.37		0.028		0.03		0.013			2.50	5.1	0.54	19				0.58	110		
SC4	6/16/09	35		13	16		1.5		0.08		0.029		0.074		-0.05			3.55	9.5	0.91	24				0.83	140		
SC4	12/16/09				8.7				0.11		0.0099		0.037					0.38	7.0	0.61					0.24			
SC4+	8/28/07	32		12	14		2.6		0.094		0.19		0.057		-0.002			3.27	10	0.18	37				1.07	131		
SC4+	10/30/08	40		15	23		1.8		0.253		0.226		0.16		-0.002			4.29	20	0.16	92				2.49	162		
SC5	10/13/04																											
SC5	10/4/05																											
SC6	10/14/04	31			72		17		0.37		0.05		0.23					5.13	99	1.5	57				4.09	128		
SC6	10/4/05	41			30		5.41		0.13		0.16		0.15					3.50	40	4.2	120				3.93	171		
SC6	6/29/07	18		8.5	19		3.5		0.09		0.014		0.056		-0.002			2.52	22	1.2	45				1.64	80		
SC6	8/28/07	35		15	45		9.2		0.23		0.028		0.12		0.002			5.18	60	2.7	87				3.70	149		
SC6	10/30/08	22		11	16		2.5		0.294		0.032		0.061		-0.002			2.77	26	4.1	64				2.36	101		
Water Wells																												
Scully Well #1	1/20/06	50		17	39.8				0.57		-0.02				-0.002			5.65	31	0.1		217	-5.0	-5.0	217	5.22		-3.9%
Scully Well #1	6/1/06	54			38.1		1.31		0.083		-0.02		0.14		-0.002			4.39	32	0.44		219			219	5.31		9.5%
Scully Well #1	9/19/06	51		18	37				-0.05		-0.02		0.19		-0.002			5.64	31	0.29		212	-5.0	-5.0	212	5.13		-4.7%
Scully Well #1	12/12/06	52		17	38				3.7		0.072		0.19		-0.002			5.78	29	0.078		201	-5.0	-5.0	201	4.84		-8.9%
Scully Well #1	3/23/07	50		16	36.2				0.069		-0.02		0.18		-0.002			5.39	32	0.35		203	-5.0	-5.0	203	4.98		-3.9%
Scully Well #1	6/26/07	52		16	38				0.209		-0.005		0.19		-0.002			5.57	29	0.18		203	-5.0	-5.0	203	4.89		-6.5%
Scully Well #1	9/28/07	41		14	36				0.1		-0.005		0.17		-0.002			4.77	28	-0.05		171	-5.0	-5.0	171	4.21		-6.2%
Scully Well #1*	3/22/10		46	16		41		1.50		0.26		0.01		0.190	-0.019			5.44	37	0.063		190	-4.1	-4.1	190	4.84	180	-5.8%
Scully Well #2	1/20/06	42		13	15.1				17		0.027				-0.002			4.43	24	0.47		117	-5.0	-5.0	117	3.05		-18.5%
Scully Well #2*	3/22/10		44	16		18		0.36		0.2		0.0079		0.069	-0.019			4.31	34	0.15		130	-4.1	-4.1	130	3.57	170	-9.4%
Sparrowk Well	1/20/06	39		13	12.4				0.3		0.020				0.002			3.57	11	2.4	28	121	-5.0	-5.0	121	3.48	149	-1.2%

Notes:

Negative (-) values indicate less than the detection limit

* March 22, 2010 metals results for dissolved constituents



Green shaded cells indicate questionable or qualified analyses (e.g. exceeded hold time).

Blue shaded cells indicate estimated value detected above minimum detection level but below practical quantitation limit.

APPENDIX A

WELL PURGING AND SAMPLING FORMS

Groundwater Measurement Field Form



Project Name:	City of Ione - Wastewater Treatment Facility		
Sampling Event:	2nd Quarter 2022	Date:	6/15/2022
Samplers:	C. Strong		
		Conditions:	

Decontamination Method	Triple Rinse / Dedicated Bailor
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Well Identification	Diameter of Casing	Time	Depth to Water 1	Depth to Water 2	Total Depth	Comments
MW-1	2	1412	10.67	10.67	27.05	6/15/22
MW-1A	2	1330	11.08	11.08	42.60	
MW-2	2	1025	14.07	14.09	26.19	
MW-2A	2	1515	16.85	16.85	27.83	
MW-3	2	938	16.90	16.90	30.05	
MW-3A	2	1552	21.52	21.52	32.75	
MW-4	2	1050	13.43	13.43	30.23	
MW-4A	2	1140	9.93	9.93	23.00	
MW-5A	4	1220	8.43	8.43	28.09	
P-5B	2		7.79	7.79	17.63	signature 6/15/22
P-1	2		6.49	6.49	28.23	6/12/22
P-2	2		15.53	15.53	28.14	6/15/22
P-3	2		18.68	18.68	34.33	6/12/22
MW8-1	4		4.80	4.80	27.41	
MW8-2A	4		11.17	11.17	32.55	
MW8-2B	4		10.88	10.88	17.92	
MW8-3	4		8.35	8.35	26.85	
MW8-4A	4		15.74	15.74	36.50	
MW8-4B	4		15.74	15.74	19.40	
			15.15	15.15		

Field Notes	

Groundwater Monitoring Field Form



Project Name:	City of Ione - Wastewater Treatment Facility	Well ID:	MW-1
Sampling Event:	2nd Quarter 2022	Date:	6/15/2022
Samplers:	C. Strong	Conditions:	

Decontamination Method	Triple Rinse / Dedicated bailer / Other
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Well Details	Well Casing Diameter (""):	Depth to Water	Total Depth	Water Column	Multiplier	Well Volume	80% Recovery Lvl
Calc'd gallons to be purged: 2.44 8.5	Actual gallons purged: 8.5	10.67	27.05	16.38	—	2.67	13.95
Multipliers: 0.75" = 0.0229; 2" = 0.163; 4" = 0.653; 6" = 1.03							
Measuring Point: MOC / North Side Casing X3 = 8.01							

Purge Data										Purge Method:	
Time	Vol. Purged	DTW	Temp	pH	EC (µS/cm)	TDS (mg/L)	DO (mg/L)	ORP (rel mV)	Turbidity	Comments (odor? Floating product?)	
1412	1	—	18.4	6.55	237	169	6.92	134	clear		
1420	4	—	17.5	6.41	238	169	6.77	137	"		
1428	8.5	10.68	17.3	6.40	237	168	6.95	137	slight	light brown	
Total/Average											

Sampling Data	
Depth to Water at time of sampling:	14.68
Sample ID:	MW-1
Sample Time:	1430
Sample Collection Method:	Dedicated Bailor
Containers Used:	(1) 100mL Na2SO4 (1) 1L Poly (1) 500mL Poly H2SO4 (1) 500mL Poly HNO3
Samples kept Preserve Y	N
Duplicate Samples Co Y	N
Rinsate Samples Coll Y	N

Field Notes

Groundwater Monitoring Field Form



Project Name:	City of Ione - Wastewater Treatment Facility	Well ID:	MW-1A
Sampling Event:	2nd Quarter 2022	Date:	6/15/2022
Samplers:	C. Strong	Conditions:	Sunny

Decontamination Method	Triple Rinse / Dedicated bailer / Other
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Well Details	Well Casing Diameter ("): 2	Depth to Water	11.08	Total Depth	42.68	Water Column	31.57	Multiplier	-	Well Volume	5.15	80% Recovery Lvl	17.34
Calcd gallons to be purged:	15.44	Actual gallons purged	15.5										
Multipliers: 0.75" = 0.0229; 2" = 0.163; 4" = 0.653; 6" = 1.03													
Measuring Point: MOC / North Side Casing x3 = 15.44													

Purge Data												Purge Method:	
Time	Vol. Purged	DTW	Temp	pH	EC (µS/cm)	TDS(mg/L)	DO (mg/L)	ORP (rel mV)	Turbidity	Comments (odor? Floating product?)			
1331	1	-	19.2	6.56	302	213	4.17	119	clear				
1345	7.5	-	18.5	6.33	301	214	3.85	120	"				
1354	15.5	11.09	18.5	6.39	290	205	3.95	122	"				
Total/Average													

Sampling Data	
Depth to Water at time of sampling:	11.09
Sample ID:	MW-1A
Sample Time:	1357
Sample Collection Method:	Dedicated Bailer
Containers Used:	(1) 100mL Na2SO4 (1) 1L Poly (1) 500mL Poly HNO3
	Samples kept Preserve Y N
	Duplicate Samples Co Y N
	Rinsate Samples Coll Y N
	(1) 500mL Poly H2SO4

Field Notes

Groundwater Monitoring Field Form



Project Name: City of Ione - Wastewater Treatment Facility	Well ID: MW-2
Sampling Event: 2nd Quarter 2022	Date: 6/15/2022
Samplers: C. Strong	Conditions: sunny

Decontamination Method	Triple Rinse / <u>Dedicated bailer</u> / Other
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Well Details	Well Casing Diameter ("): 2"	Depth to Water: 14.09	Total Depth: 26.99	Water Column: 12.10	Multiplier: -	Well Volume: 1.92	80% Recovery Lvl: 20.95
Calcd gallons to be purged: 5.92 Actual gallons purged: 6							
Multipliers: 0.75" = 0.0229; 2" = 0.163; 4" = 0.653; 6" = 1.03							
Measuring Point: MOC / North Side Casing x 3 = 5.92							

Purge Data										
Time	Vol. Purged	DTW	Temp	pH	EC (µS/cm)	TDS (mg/L)	DO (mg/L)	ORP (rel mV)	Turbidity	Comments (odor? Floating product?)
10:20	1	-	18.1	6.61	411	293	1.40	121	Low	
10:29	3	-	17.9	6.61	414	293	1.89	71	"	
10:37	6	14:10	19.9	6.61	428	299	1.22	-37	"	
Total/Average										

Sampling Data		
Depth to Water at time of sampling:	14.10	Samples kept Preserve: N
Sample ID:	MW-2	
Sample Time:	1037	Duplicate Samples Cc Y <input checked="" type="checkbox"/>
Sample Collection Method:	Dedicated Bailer	Rinsate Samples Coll Y <input checked="" type="checkbox"/>
Containers Used:	(1) 100mL Na2SO4 (1) 1L Poly (1) 500mL Poly HNO3	(1) 500mL Poly H2SO4

Field Notes

Groundwater Monitoring Field Form



Project Name:	City of Ione - Wastewater Treatment Facility	Well ID:	MW-2A
Sampling Event:	2nd Quarter 2022	Date:	6/15/2022
Samplers:	C. Strong	Conditions:	

Decontamination Method	Triple Rinse / Dedicated bailer / Other
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Well Details	Well Casing Diameter ("): 2	Depth to Water	16.85	Total Depth	27.83	Water Column	10.98	Multiplier	1	Well Volume	1.79	80% Recovery Lvl	19.05
Calc'd gallons to be purged: 5.77 Actual gallons purged 5.5													
Multipliers: 0.75" = 0.0229; 2" = 0.163; 4" = 0.653; 6" = 1.03													
Measuring Point: MOC / North Side Casing *3 = 5.37													

Purge Data											
Time	Vol. Purged	DTW	Temp	pH	EC (µS/cm)	TDS(mg/L)	DO (mg/L)	ORP (rel mV)	Turbidity	Comments (odor? Floating product?)	
1516	1	-	21.7	6.65	403	287	1.42	32	slight	light brown	
1520	3.5	-	19.8	6.55	428	301	1.19	-67	"	"	
1524	5.5	16.87	18.7	6.55	426	301	1.15	-70			
Total/Average											

Sampling Data	
Depth to Water at time of sampling:	16.87
Sample ID:	MW-2A
Sample Time:	1527
Sample Collection Method:	Dedicated Bailer
Containers Used:	(1) 100mL Na2SO4 (1) 1L Poly (1) 500mL Poly HNO3 (1) 500mL Poly H2SO4
Samples kept Preserve Y	N
Duplicate Samples Co Y	N
Rinsate Samples Coll Y	N

Field Notes

Groundwater Monitoring Field Form



Project Name: City of Ione - Wastewater Treatment Facility	Well ID: MW-3
Sampling Event: 2nd Quarter 2022	Date: 6/15/2022
Samplers: C. Strong	Conditions: sunny

Decontamination Method	Triple Rinse / <u>Dedicated bailer</u> / Other
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Well Details	Well Casing Diameter ("): 2	Depth to Water: 16.90	Total Depth: 30.05	Water Column: 13.15	Multiplier: -	Well Volume: 2.14	80% Recovery Lvl: 19.53
Calcd gallons to be purged: 6.43 Actual gallons purged 6.5							
Multipliers: 0.75" = 0.0229; 2" = 0.163; 4" = 0.653; 6" = 1.03							
Measuring Point: MOC / North Side Casing x 3 = 6.43							

Purge Data		Purge Method:								
Time	Vol. Purged	DTW	Temp	pH	EC (µS/cm)	TDS(mg/L)	DO (mg/L)	ORP (rel mV)	Turbidity	Comments (odor? Floating product?)
938	1	—	19.6	7.05	440	313	2.91	229	Clear	
945	3	—	18.7	6.72	449	319	1.85	226	"	
955	6.5	16.95	18.3	6.64	449	318	2.46	221	slight	
Total/Average										

Sampling Data	
Depth to Water at time of sampling:	16.95
Sample ID:	MW-3
Sample Time:	0955
Sample Collection Method:	Dedicated Bailer
Containers Used:	(1) 100mL Na2SO4 (1) 1L Poly (1) 500mL Poly HNO3
	(1) 500mL Poly H2SO4
	Samples kept Preserved Y N
	Duplicate Samples Co Y N
	Rinsate Samples Coll Y N

Field Notes

APPENDIX B

LABORATORY ANALYTICAL REPORTS CHAIN OF CUSTODY RECORD



Date of Report: 07/01/2022

Christopher Strong

EcoUrban Associates

P.O. Box 411

Ione, CA 95640

Client Project: [none]

BCL Project: City of Ione Groundwater Monitoring WWTP

BCL Work Order: 2214093

Invoice ID: B452545

Enclosed are the results of analyses for samples received by the laboratory on 6/16/2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Ragen Schallock", written over a horizontal line.

Contact Person: Ragen Schallock
Client Service Rep

A handwritten signature in black ink, appearing to read "Stuart Buttram", written over a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.pacelabs.com

Chain of Custody

ANALYSIS REQUESTED **37** 3.8

TEMP: _____

Phone: (209) 487-4802 FAX: _____

E-mail: cstrong@ecourbandesigns.com

EcoUrban Associates

Address: 531 W. Mariette St. Lodi, CA 95640

City: Lodi State: CA Zip: 95640

PO # BCL Quote #

How would you like your completed results sent? ☒ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

QC Request ☐ STD ☐ Level II ☒ STD ☐ Day** ☐ Day**

Christopher Strong

Report Attention: _____

Carbon Copies: ☐ CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other: _____

Regulatory Compliance Electronic Data Transfer: ☐ Y ☐ N

System No. _____

Matrix Types: RSW - Raw Surface Water CFW - Chlorinated Finished Water BW - Bottled Water
RGW - Raw Ground Water FW - Finished Water WW - Waste Water SW - Storm Water DW - Drinking Water SO - Solid

Sample #	Booles	Sample Date	Time	Sample Description / Location	Matrix	Comments / Station Code	TDS, Nitrate-N	NH3	Dissolved Iron & Manganese	Total Coliform (555)
-1		6/15/22	1430	MW-1	RGW					
-2		6/15/22	1337	MW-1A	RGW					
-3		6/15/22	1337	MW-2	RGW					
-4		6/15/22	1527	MW-2A	RGW					
-5		6/15/22	0955	MW-3	RGW					
-6		6/15/22	1600	MW-3A	RGW					
-7		6/15/22	1117	MW-4	RGW					
-8		6/15/22	1205	MW-4A	RGW					
-9		6/15/22	1307	MW-5A	RGW					

Relinquished by: (Signature and Printed Name)
[Signature] EcoUrban Associates

Relinquished to: (Signature and Printed Name)
[Signature] Pace

Received for Lab by: (Signature and Printed Name)
[Signature] Pace

Company: EcoUrban Associates

Company: Pace

Company: Pace

Date: 6/15/22

Date: 6/15/22

Date: 6/15/22

Shipping Method: CAO UPS GSO WALK-IN SVC

CHK BY: *[Signature]*

COOLING METHOD: WET BLUE NONE

DISTRIBUTION: *[Signature]*

SUB-OUT: ☐

PACKING MATERIAL: SHORT HOPEING TIME

Cr+6 NO2 NO3 OP SS

DO Cl2 BOD MBAS

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Chain of Custody and Cooler Receipt Form for 2214093 Page 2 of 3

PAGE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> of <u>2</u>	
Submission #: <u>22-14093</u>		<u>WAX (22-14050)</u>			
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input checked="" type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> <u>W</u> / <u>S</u>	
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>0.98</u> Container: <u>VE</u> Thermometer ID: <u>337</u>		Date/Time: <u>6-16-22</u>	
		Temperature: (A) <u>1.8</u> °C / (C) <u>1.7</u> °C		Analyst Initials: <u>SMH</u> 9:26	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES	A-C	A-C		A-C		A	AD-D A-C		A-C	
2oz Cr ⁴						201616 R2				
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS	D	D		D		E	D		D	
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
60ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/603.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Numbering Completed By: EC1 Date/Time: 6/16/22 1825
 I / C = Corrected

REV 23 05/20/22
 [5/31/2022/Work/Perfect/LAB_DCS/FORMS/USAMRECrev 26]

Chain of Custody and Cooler Receipt Form for 2214093 Page 3 of 3

PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>2</u> of <u>2</u>							
Submission #: <u>22-14093</u>		<u>INACT (22-14050)</u>									
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input checked="" type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> (W) / S						
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____											
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>0.98</u> Container: <u>PE</u> Thermometer ID: <u>337</u> Temperature: (A) <u>1.7</u> °C (C) <u>1.6</u> °C		Date/Time: <u>6-16-22</u> Analyst Init: <u>SMH</u> 9:26							
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES				A-C		A-C			A-C		
2oz Cr ⁶⁺											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS				D		D			D		
PT TOTAL SULFIDE											
2oz NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PT PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
QT EPA 1664B											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL- 504											
QT EPA 502.605.3/8081A											
QT EPA 515.1/8151A											
QT EPA 525.3											
QT EPA 525.3 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 548.1											
QT EPA 549.2											
QT EPA 8015M											
QT EPA 8170C											
8oz / 16oz / 32oz AMBER											
8oz / 16oz / 32oz JAR											
SOIL SLEEVE											
PCB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUMMA CANISTER											
Comments: _____ Sample Numbering Completed By: <u>SMH</u> Date/Time: <u>6/16/22 19:25</u> = Actual / C = Corrected											



EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2214093-01	COC Number:	---	Receive Date:	06/16/2022 09:26
	Project Number:	---	Sampling Date:	06/15/2022 14:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-1	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
2214093-02	COC Number:	---	Receive Date:	06/16/2022 09:26
	Project Number:	---	Sampling Date:	06/15/2022 13:57
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-1A	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
2214093-03	COC Number:	---	Receive Date:	06/16/2022 09:26
	Project Number:	---	Sampling Date:	06/15/2022 10:37
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-2	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
2214093-04	COC Number:	---	Receive Date:	06/16/2022 09:26
	Project Number:	---	Sampling Date:	06/15/2022 15:27
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-2A	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
2214093-05	COC Number:	---	Receive Date:	06/16/2022 09:26
	Project Number:	---	Sampling Date:	06/15/2022 09:55
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-3	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	

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P.O. Box 411
Ione, CA 95640

Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2214093-06	COC Number:	---	Receive Date:	06/16/2022 09:26
	Project Number:	---	Sampling Date:	06/15/2022 16:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-3A	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
2214093-07	COC Number:	---	Receive Date:	06/16/2022 09:26
	Project Number:	---	Sampling Date:	06/15/2022 11:17
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-4	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
2214093-08	COC Number:	---	Receive Date:	06/16/2022 09:26
	Project Number:	---	Sampling Date:	06/15/2022 12:05
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-4A	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
2214093-09	COC Number:	---	Receive Date:	06/16/2022 09:26
	Project Number:	---	Sampling Date:	06/15/2022 13:07
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-5A	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	



EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

BCL Sample ID:	2214093-01	Client Sample Name:	MW-1, 6/15/2022 2:30:00PM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Nitrate as N	0.54	mg/L	0.10	0.024	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	180	mg/L	10	5.0	EPA-160.1	ND		2
Ammonia as N	0.092	mg/L	0.20	0.067	EPA-350.1	ND	J	3

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-300.0	06/16/22 20:00	06/16/22 21:30		KB1	IC5	1	B142167	No Prep
2	EPA-160.1	06/20/22 11:00	06/20/22 11:00		CAD	MANUAL	1	B142300	No Prep
3	EPA-350.1	06/30/22 09:00	06/30/22 15:05		JMH	SC-1	1.079	B143057	No Prep

DCN = Data Continuation Number



EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Metals Analysis

BCL Sample ID:	2214093-01	Client Sample Name:	MW-1, 6/15/2022 2:30:00PM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Dissolved Iron	ND	mg/L	0.050	0.030	EPA-200.7	ND		1
Dissolved Manganese	0.00069	mg/L	0.0010	0.000040	EPA-200.8	ND	J	2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-200.7	06/17/22 11:04	06/27/22 22:53	JRG	PE-OP4	1	B142605	EPA 200.7 Dissolved
2	EPA-200.8	06/17/22 11:19	06/21/22 15:37	AK1	PE-EL2	1	B142373	EPA 200.8 Dissolved

DCN = Data Continuation Number



EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

BCL Sample ID:	2214093-02	Client Sample Name:	MW-1A, 6/15/2022 1:57:00PM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Nitrate as N	1.8	mg/L	0.10	0.024	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	220	mg/L	20	10	EPA-160.1	ND	A10	2
Ammonia as N	0.084	mg/L	0.20	0.067	EPA-350.1	ND	J	3

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-300.0	06/16/22 20:00	06/16/22 21:48		KB1	IC5	1	B142167	No Prep
2	EPA-160.1	06/20/22 11:00	06/20/22 11:00		CAD	MANUAL	2	B142300	No Prep
3	EPA-350.1	06/30/22 09:00	06/30/22 15:09		JMH	SC-1	1.079	B143057	No Prep

DCN = Data Continuation Number



EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Metals Analysis

BCL Sample ID: 2214093-02		Client Sample Name: MW-1A, 6/15/2022 1:57:00PM							
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Dissolved Iron		ND	mg/L	0.050	0.030	EPA-200.7	ND		1
Dissolved Manganese		0.029	mg/L	0.0010	0.000040	EPA-200.8	ND		2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-200.7	06/17/22 11:06	06/27/22 22:59	JRG	PE-OP4	1	B142605	EPA 200.7 Dissolved
2	EPA-200.8	06/17/22 11:19	06/21/22 23:08	AK1	PE-EL2	1	B142373	EPA 200.8 Dissolved

DCN = Data Continuation Number



EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

BCL Sample ID:	2214093-03	Client Sample Name:	MW-2, 6/15/2022 10:37:00AM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Nitrate as N	ND	mg/L	0.10	0.024	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	290	mg/L	20	10	EPA-160.1	ND	A10	2
Ammonia as N	2.2	mg/L	0.20	0.067	EPA-350.1	ND		3

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time	Date/Time				Batch ID	Prep Method
1	EPA-300.0	06/16/22 20:00	06/16/22 22:06		KB1	IC5	1	B142167	No Prep
2	EPA-160.1	06/20/22 11:00	06/20/22 11:00		CAD	MANUAL	2	B142300	No Prep
3	EPA-350.1	06/30/22 09:00	06/30/22 15:10		JMH	SC-1	1.079	B143057	No Prep

DCN = Data Continuation Number



EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Metals Analysis

BCL Sample ID: 2214093-03		Client Sample Name: MW-2, 6/15/2022 10:37:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Dissolved Iron	ND	mg/L	0.050	0.030	EPA-200.7	ND		1
Dissolved Manganese	3.3	mg/L	0.0010	0.000040	EPA-200.8	ND		2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-200.7	06/17/22 11:08	06/27/22 22:41	JRG	PE-OP4	1	B142605	EPA 200.7 Dissolved
2	EPA-200.8	06/17/22 11:19	06/21/22 23:10	AK1	PE-EL2	1	B142373	EPA 200.8 Dissolved

DCN = Data Continuation Number



EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

BCL Sample ID:	2214093-04	Client Sample Name:	MW-2A, 6/15/2022 3:27:00PM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Nitrate as N	ND	mg/L	0.10	0.024	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	300	mg/L	20	10	EPA-160.1	ND	A10	2
Ammonia as N	3.1	mg/L	1.0	0.34	EPA-350.1	ND	A10	3

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-300.0	06/16/22 20:00	06/16/22 22:24		KB1	IC5	1	B142167	No Prep
2	EPA-160.1	06/20/22 11:00	06/20/22 11:00		CAD	MANUAL	2	B142300	No Prep
3	EPA-350.1	06/30/22 09:00	06/30/22 15:10		JMH	SC-1	5.085	B143057	No Prep

DCN = Data Continuation Number



EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Metals Analysis

BCL Sample ID: 2214093-04		Client Sample Name: MW-2A, 6/15/2022 3:27:00PM							
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Dissolved Iron		0.097	mg/L	0.050	0.030	EPA-200.7	ND		1
Dissolved Manganese		3.2	mg/L	0.0010	0.000040	EPA-200.8	ND		2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-200.7	06/17/22 11:10	06/27/22 23:01	JRG	PE-OP4	1	B142605	EPA 200.7 Dissolved
2	EPA-200.8	06/17/22 11:19	06/21/22 23:12	AK1	PE-EL2	1	B142373	EPA 200.8 Dissolved

DCN = Data Continuation Number



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Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

BCL Sample ID:	2214093-05	Client Sample Name:	MW-3, 6/15/2022 9:55:00AM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Nitrate as N	0.032	mg/L	0.10	0.024	EPA-300.0	ND	J	1
Total Dissolved Solids @ 180 C	320	mg/L	20	10	EPA-160.1	ND	A10	2
Ammonia as N	1.8	mg/L	0.20	0.067	EPA-350.1	ND		3

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-300.0	06/16/22 20:00	06/16/22 22:42		KB1	IC5	1	B142167	No Prep
2	EPA-160.1	06/20/22 11:00	06/20/22 11:00		CAD	MANUAL	2	B142300	No Prep
3	EPA-350.1	06/30/22 09:00	06/30/22 15:12		JMH	SC-1	1.077	B143057	No Prep

DCN = Data Continuation Number



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Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Metals Analysis

BCL Sample ID: 2214093-05		Client Sample Name: MW-3, 6/15/2022 9:55:00AM							
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Dissolved Iron		ND	mg/L	0.050	0.030	EPA-200.7	ND		1
Dissolved Manganese		4.1	mg/L	0.0010	0.000040	EPA-200.8	ND		2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-200.7	06/17/22 11:12	06/27/22 23:03	JRG	PE-OP4	1	B142605	EPA 200.7 Dissolved
2	EPA-200.8	06/17/22 11:19	06/21/22 23:13	AK1	PE-EL2	1	B142373	EPA 200.8 Dissolved

DCN = Data Continuation Number



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P.O. Box 411
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Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

BCL Sample ID:	2214093-06	Client Sample Name:	MW-3A, 6/15/2022 4:00:00PM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Nitrate as N	0.027	mg/L	0.10	0.024	EPA-300.0	ND	J	1
Total Dissolved Solids @ 180 C	300	mg/L	20	10	EPA-160.1	ND	A10	2
Ammonia as N	4.4	mg/L	1.0	0.34	EPA-350.1	ND	A10	3

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time	Date/Time				Batch ID	Prep Method
1	EPA-300.0	06/16/22 20:00	06/16/22 23:00		SAV	IC5	1	B142167	No Prep
2	EPA-160.1	06/20/22 11:00	06/20/22 11:00		CAD	MANUAL	2	B142300	No Prep
3	EPA-350.1	06/30/22 09:00	06/30/22 15:14		JMH	SC-1	5.085	B143057	No Prep

DCN = Data Continuation Number



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P.O. Box 411
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Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Metals Analysis

BCL Sample ID: 2214093-06		Client Sample Name: MW-3A, 6/15/2022 4:00:00PM							
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Dissolved Iron		0.20	mg/L	0.050	0.030	EPA-200.7	ND		1
Dissolved Manganese		6.4	mg/L	0.0010	0.000040	EPA-200.8	ND		2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-200.7	06/17/22 11:14	06/27/22 23:05	JRG	PE-OP4	1	B142605	EPA 200.7 Dissolved
2	EPA-200.8	06/17/22 11:19	06/21/22 23:15	AK1	PE-EL2	1	B142373	EPA 200.8 Dissolved

DCN = Data Continuation Number



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Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

BCL Sample ID:	2214093-07	Client Sample Name:	MW-4, 6/15/2022 11:17:00AM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Nitrate as N	1.2	mg/L	0.10	0.024	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	270	mg/L	20	10	EPA-160.1	ND	A10	2
Ammonia as N	0.091	mg/L	0.20	0.067	EPA-350.1	ND	J	3

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-300.0	06/16/22 20:00	06/16/22 23:18		SAV	IC5	1	B142167	No Prep
2	EPA-160.1	06/20/22 11:00	06/20/22 11:00		CAD	MANUAL	2	B142300	No Prep
3	EPA-350.1	06/30/22 09:00	06/30/22 15:15		JMH	SC-1	1.079	B143057	No Prep

DCN = Data Continuation Number



EcoUrban Associates
P.O. Box 411
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Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Metals Analysis

BCL Sample ID:	2214093-07	Client Sample Name:	MW-4, 6/15/2022 11:17:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Dissolved Iron	ND	mg/L	0.050	0.030	EPA-200.7	ND		1	
Dissolved Manganese	0.87	mg/L	0.0010	0.000040	EPA-200.8	ND		2	

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/17/22 11:15	06/27/22 23:07		JRG	PE-OP4	1	B142605	EPA 200.7 Dissolved
2	EPA-200.8	06/17/22 11:19	06/21/22 23:16		AK1	PE-EL2	1	B142373	EPA 200.8 Dissolved

DCN = Data Continuation Number



EcoUrban Associates
P.O. Box 411
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Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

BCL Sample ID:	2214093-08	Client Sample Name:	MW-4A, 6/15/2022 12:05:00PM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Nitrate as N	2.1	mg/L	0.10	0.024	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	280	mg/L	20	10	EPA-160.1	ND	A10	2
Ammonia as N	0.081	mg/L	0.20	0.067	EPA-350.1	ND	J	3

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-300.0	06/16/22 20:00	06/16/22 23:35		SAV	IC5	1	B142167	No Prep
2	EPA-160.1	06/20/22 11:00	06/20/22 11:00		CAD	MANUAL	2	B142300	No Prep
3	EPA-350.1	06/30/22 09:00	06/30/22 15:16		JMH	SC-1	1.075	B143057	No Prep

DCN = Data Continuation Number



EcoUrban Associates
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Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Metals Analysis

BCL Sample ID: 2214093-08		Client Sample Name: MW-4A, 6/15/2022 12:05:00PM							
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Dissolved Iron		ND	mg/L	0.050	0.030	EPA-200.7	ND		1
Dissolved Manganese		0.057	mg/L	0.0010	0.000040	EPA-200.8	ND		2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-200.7	06/17/22 11:17	06/27/22 23:10	JRG	PE-OP4	1	B142605	EPA 200.7 Dissolved
2	EPA-200.8	06/17/22 11:19	06/21/22 23:18	AK1	PE-EL2	1	B142373	EPA 200.8 Dissolved

DCN = Data Continuation Number



EcoUrban Associates
P.O. Box 411
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Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

BCL Sample ID:	2214093-09	Client Sample Name:	MW-5A, 6/15/2022 1:07:00PM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Nitrate as N	0.99	mg/L	0.10	0.024	EPA-300.0	ND		1
Total Dissolved Solids @ 180 C	260	mg/L	20	10	EPA-160.1	ND	A10	2
Ammonia as N	0.070	mg/L	0.20	0.067	EPA-350.1	ND	J	3

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-300.0	06/16/22 20:00	06/16/22 23:53		SAV	IC5	1	B142167	No Prep
2	EPA-160.1	06/20/22 11:00	06/20/22 11:00		CAD	MANUAL	2	B142300	No Prep
3	EPA-350.1	06/30/22 09:00	06/30/22 15:17		JMH	SC-1	1.071	B143057	No Prep

DCN = Data Continuation Number



EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Metals Analysis

BCL Sample ID:	2214093-09	Client Sample Name:	MW-5A, 6/15/2022 1:07:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Dissolved Iron	ND	mg/L	0.050	0.030	EPA-200.7	ND		1	
Dissolved Manganese	0.30	mg/L	0.0010	0.000040	EPA-200.8	ND		2	

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-200.7	06/17/22 11:19	06/27/22 23:12	JRG	PE-OP4	1	B142605	EPA 200.7 Dissolved
2	EPA-200.8	06/17/22 11:19	06/21/22 23:20	AK1	PE-EL2	1	B142373	EPA 200.8 Dissolved

DCN = Data Continuation Number



EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B142167						
Nitrate as N	B142167-BLK1	ND	mg/L	0.10	0.024	
QC Batch ID: B142300						
Total Dissolved Solids @ 180 C	B142300-BLK1	ND	mg/L	6.7	3.3	
QC Batch ID: B143057						
Ammonia as N	B143057-BLK1	ND	mg/L	0.20	0.067	

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Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	Quals
QC Batch ID: B142167										
Nitrate as N	B142167-BS1	LCS	5.3420	5.0000	mg/L	107		90 - 110		
QC Batch ID: B142300										
Total Dissolved Solids @ 180 C	B142300-BS1	LCS	610.00	586.00	mg/L	104		90 - 110		
QC Batch ID: B143057										
Ammonia as N	B143057-BS1	LCS	2.0626	2.0000	mg/L	103		90 - 110		

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Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: B142167		Used client sample: Y - Description: MW-1, 06/15/2022 14:30									
Nitrate as N	DUP	2214093-01	0.53700	0.54300		mg/L	1.1		10		
	MS	2214093-01	0.53700	5.5253	5.0505	mg/L		98.8		80 - 120	
	MSD	2214093-01	0.53700	5.5020	5.0505	mg/L	0.4	98.3	10	80 - 120	
QC Batch ID: B142300		Used client sample: Y - Description: MW-1A, 06/15/2022 13:57									
Total Dissolved Solids @ 180 C	DUP	2214093-02	218.00	222.00		mg/L	1.8		10		
QC Batch ID: B143057		Used client sample: Y - Description: MW-1, 06/15/2022 14:30									
Ammonia as N	DUP	2214093-01	0.092374	0.087194		mg/L	5.8		10		J
	MS	2214093-01	0.092374	2.5757	2.4000	mg/L		103		90 - 110	
	MSD	2214093-01	0.092374	2.5699	2.4000	mg/L	0.2	103	10	90 - 110	



EcoUrban Associates
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Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B142373						
Dissolved Manganese	B142373-BLK1	ND	mg/L	0.0010	0.000040	
QC Batch ID: B142605						
Dissolved Iron	B142605-BLK1	ND	mg/L	0.050	0.030	

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Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Metals Analysis

Quality Control Report - Laboratory Control Sample

								<u>Control Limits</u>		
Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Percent Recovery	RPD	Lab Quals
QC Batch ID: B142373										
Dissolved Manganese	B142373-BS1	LCS	0.10572	0.10000	mg/L	106		85 - 115		
QC Batch ID: B142605										
Dissolved Iron	B142605-BS1	LCS	0.97961	1.0000	mg/L	98.0		85 - 115		

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Ione, CA 95640

Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: B142373		Used client sample: Y - Description: MW-1, 06/15/2022 14:30									
Dissolved Manganese	DUP	2214093-01	0.00069400	0.00058300		mg/L	17.4		20		J
	MS	2214093-01	0.00069400	0.10040	0.10000	mg/L		99.7		70 - 130	
	MSD	2214093-01	0.00069400	0.099334	0.10000	mg/L	1.1	98.6	20	70 - 130	
QC Batch ID: B142605		Used client sample: Y - Description: MW-2, 06/15/2022 10:37									
Dissolved Iron	DUP	2214093-03	ND	ND		mg/L			20		
	MS	2214093-03	ND	0.99776	1.0204	mg/L		97.8		85 - 115	
	MSD	2214093-03	ND	0.96520	1.0204	mg/L	3.3	94.6	20	85 - 115	

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Ione, CA 95640

Reported: 07/01/2022 12:45
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A10	Detection and quantitation limits were raised due to matrix interference.

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Date of Report: 06/29/2022

Christopher Strong

EcoUrban Associates

P.O. Box 411
Ione, CA 95640

Client Project: [none]
BCL Project: City of Ione Groundwater Monitoring WWTP
BCL Work Order: 2214050
Invoice ID: B452259

Enclosed are the results of analyses for samples received by the laboratory on 6/16/2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Ragen Schallock", written over a horizontal line.

Contact Person: Ragen Schallock
Client Service Rep

A handwritten signature in black ink, appearing to read "Stuart Buttram", written over a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
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BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody

ANALYSIS REQUESTED **37** 3.8

TEMP: _____

Phone: (209) 487-4802 FAX: _____

E-mail: cstrong@ecourbandesigns.com

Client/Company Name: **EcoUrban Associates**

Address: **531 W. Mariette St.**

City: **lone** State: **CA** Zip: **95640**

Project Information: **City of lone GW Monitoring WWTP**

How would you like your completed results sent? ☒ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

QC Request ☐ STD ☐ Level II ☒ STD ☐ Day** ☐ Day**

Report Attention: **Christopher Strong**

Carbon Copies: ☐ CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Regulatory Compliance Electronic Data Transfer: ☐ Y ☐ N

System No.:

Matrix Types: **RSW - Raw Surface Water** **CFW - Chlorinated Finished Water** **BW - Bottled Water**
RGW - Raw Ground Water **FW - Finished Water** **DW - Drinking Water** **SW - Storm Water** **SO - Solid**

Sample #	Booles	Sampled Date	Time	Sample Description / Location	Matrix	Comments / Station Code	TDS, Nitrate-N	NH3	Dissolved Iron & Manganese	Total Coliform (555)
-1		6/15/22	1430	MW-1	RGW					
-2		6/15/22	1337	MW-1A	RGW					
-3		6/15/22	1337	MW-2	RGW					
-4		6/15/22	1527	MW-2A	RGW					
-5		6/15/22	0955	MW-3	RGW					
-6		6/15/22	1600	MW-3A	RGW					
-7		6/15/22	1117	MW-4	RGW					
-8		6/15/22	1205	MW-4A	RGW					
-9		6/15/22	1307	MW-5A	RGW					

Relinquished by: (Signature and Printed Name) **ECO Urban Assoc.** Date: **6/15/22** Time: **1645**

Relinquished by: (Signature and Printed Name) **PACE** Date: **6/15/22** Time: **1830**

Received for Lab by: (Signature and Printed Name) **Shirley M. Mager** Date: **6/16/22** Time: **9:26**

Shipping Method: **CAO UPS GSO WALK-IN SVC**

CHK BY: **gus**

Cooling Method: **WET BLUE NONE**

Packing Material: **SHORT HOPEING TIME**

Cr⁶ NO₂ NO₃ OP SS
DO Cl₂ BOD MBAS

Chain of Custody and Cooler Receipt Form for 2214050 Page 2 of 3

PAGE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> of <u>2</u>	
Submission #: <u>22-14093</u>		<u>WEEK (22-14050)</u>			
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input checked="" type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> <u>W</u> / <u>S</u>	
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____					
Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>0.98</u> Container: <u>VE</u> Thermometer ID: <u>337</u>		Date/Time: <u>6-16-22</u>	
		Temperature: (A) <u>1.8</u> °C / (C) <u>1.7</u> °C		Analyst Initials: <u>SMH</u> 9:26	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES	A-C	A-C		A-C		A	AD-D A-C		A-C	
2oz Cr ⁴						201616 R2				
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS	D	D		D		E	D		D	
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
60ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/603.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Numbering Completed By: EC1 Date/Time: 6/16/22 1825
 I / C = Corrected

REV 23 05/20/22
 [5/31/2022/WeekPerfect/LAB_DCS/FORMS/USAMRECrev 26]

Chain of Custody and Cooler Receipt Form for 2214050 Page 3 of 3

PACE ANALYTICAL		COOLER RECEIPT FORM		Page 2 of 2							
Submission #: 22-140613		INACT (22-14050)									
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input checked="" type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> (W) / S						
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____											
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: 0.98 Container: PE Thermometer ID: 337 Temperature: (A) 1.7 °C (C) 1.6 °C		Date/Time: 6-16-22 Analyst Init: SPW 9:26							
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES				A-C		A-C			A-C		
2oz Cr ⁶⁺											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS				D		D			D		
PT TOTAL SULFIDE											
2oz NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
P1A PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
QT EPA 1664B											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL- 504											
QT EPA 503/605, 3/8081A											
QT EPA 515.1/8151A											
QT EPA 525.2											
QT EPA 525.2 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 548.1											
QT EPA 549.2											
QT EPA 8015M											
QT EPA 8170C											
8oz / 16oz / 32oz AMBER											
8oz / 16oz / 32oz JAR											
SOIL SLEEVE											
PCB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUMMA CANISTER											
Comments: _____ Sample Numbering Completed By: <u>SPW</u> Date/Time: <u>6/16/22 19:25</u> = Actual / C = Corrected											

Rev 23 05/20/22
J:\WP\Doc\WastePerfectLAB_COOCFORMS\GAVRECrev 20



EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 06/29/2022 7:54
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2214050-01	COC Number:	---	Receive Date:	06/16/2022 09:26
	Project Number:	---	Sampling Date:	06/15/2022 14:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-1	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			District ID:	
			System Number:	
			Station Number:	
			Sample Site:	
			Date Received:	
			Residual Chlorine, ppm:	
			Lab Temperature, C:	3.8
2214050-02	COC Number:	---	Receive Date:	06/16/2022 09:26
	Project Number:	---	Sampling Date:	06/15/2022 13:57
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-1A	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			District ID:	
			System Number:	
			Station Number:	
			Sample Site:	
			Date Received:	
			Residual Chlorine, ppm:	
			Lab Temperature, C:	
2214050-03	COC Number:	---	Receive Date:	06/16/2022 09:26
	Project Number:	---	Sampling Date:	06/15/2022 10:37
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-2	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			District ID:	
			System Number:	
			Station Number:	
			Sample Site:	
			Date Received:	
			Residual Chlorine, ppm:	
			Lab Temperature, C:	

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All results listed in this report are for the exclusive use of the submitting party. Pace Analytical assumes no responsibility for report alteration, separation, detachment or third party interpretation.



EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 06/29/2022 7:54
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2214050-04	COC Number:	---	Receive Date:	06/16/2022 09:26
	Project Number:	---	Sampling Date:	06/15/2022 15:27
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-2A	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			District ID:	
			System Number:	
			Station Number:	
			Sample Site:	
			Date Received:	
			Residual Chlorine, ppm:	
			Lab Temperature, C:	
2214050-05	COC Number:	---	Receive Date:	06/16/2022 09:26
	Project Number:	---	Sampling Date:	06/15/2022 09:55
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-3	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			District ID:	
			System Number:	
			Station Number:	
			Sample Site:	
			Date Received:	
			Residual Chlorine, ppm:	
			Lab Temperature, C:	
2214050-06	COC Number:	---	Receive Date:	06/16/2022 09:26
	Project Number:	---	Sampling Date:	06/15/2022 16:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-3A	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			District ID:	
			System Number:	
			Station Number:	
			Sample Site:	
			Date Received:	
			Residual Chlorine, ppm:	
			Lab Temperature, C:	

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EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 06/29/2022 7:54
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2214050-07	COC Number:	---	Receive Date:	06/16/2022 09:26
	Project Number:	---	Sampling Date:	06/15/2022 11:17
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-4	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			District ID:	
			System Number:	
			Station Number:	
			Sample Site:	
			Date Received:	
			Residual Chlorine, ppm:	
			Lab Temperature, C:	
2214050-08	COC Number:	---	Receive Date:	06/16/2022 09:26
	Project Number:	---	Sampling Date:	06/15/2022 12:05
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-4A	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			District ID:	
			System Number:	
			Station Number:	
			Sample Site:	
			Date Received:	
			Residual Chlorine, ppm:	
			Lab Temperature, C:	
2214050-09	COC Number:	---	Receive Date:	06/16/2022 09:26
	Project Number:	---	Sampling Date:	06/15/2022 13:07
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-5A	Lab Matrix:	Water
	Sampled By:	---	Sample Type:	Groundwater
			District ID:	
			System Number:	
			Station Number:	
			Sample Site:	
			Date Received:	
			Residual Chlorine, ppm:	
			Lab Temperature, C:	

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EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 06/29/2022 7:54
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

2214050-01

Water Analysis (Bacteriological)

COC Number:	---	District ID:	
Project Number:	---	System Number:	
Sampling Location:	---	Station Number:	
Sampling Point:	MW-1	Sample Site:	
Sampled By:	---	Residual Chlorine, ppm:	
Receive Date:	06/16/2022 09:26	Temperature, C:	3.8
Sampling Date:	06/15/2022 14:30		
Sample Depth:	---		
Sample Matrix:	Water		

Multiple Tube Fermentation (5,5,5)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Presumptive Test	1	Positive Tubes	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	
Total Coliform, Confirmed Test	1	Positive Tubes	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	
Total Coliform, Density	2.0	MPN/100ml	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	



EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 06/29/2022 7:54
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

2214050-02

Water Analysis (Bacteriological)

COC Number:	---	District ID:	
Project Number:	---	System Number:	
Sampling Location:	---	Station Number:	
Sampling Point:	MW-1A	Sample Site:	
Sampled By:	---	Residual Chlorine, ppm:	
Receive Date:	06/16/2022 09:26	Temperature, C:	
Sampling Date:	06/15/2022 13:57		
Sample Depth:	---		
Sample Matrix:	Water		

Multiple Tube Fermentation (5,5,5)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Presumptive Test	7	Positive Tubes	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	
Total Coliform, Confirmed Test	7	Positive Tubes	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	
Total Coliform, Density	49	MPN/100ml	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	

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EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 06/29/2022 7:54
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

2214050-03

Water Analysis (Bacteriological)

COC Number:	---	District ID:	
Project Number:	---	System Number:	
Sampling Location:	---	Station Number:	
Sampling Point:	MW-2	Sample Site:	
Sampled By:	---	Residual Chlorine, ppm:	
Receive Date:	06/16/2022 09:26	Temperature, C:	
Sampling Date:	06/15/2022 10:37		
Sample Depth:	---		
Sample Matrix:	Water		

Multiple Tube Fermentation (5,5,5)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Presumptive Test	10	Positive Tubes	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	
Total Coliform, Confirmed Test	10	Positive Tubes	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	
Total Coliform, Density	170	MPN/100ml	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	

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EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 06/29/2022 7:54
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

2214050-04

Water Analysis (Bacteriological)

COC Number:	---	District ID:	
Project Number:	---	System Number:	
Sampling Location:	---	Station Number:	
Sampling Point:	MW-2A	Sample Site:	
Sampled By:	---	Residual Chlorine, ppm:	
Receive Date:	06/16/2022 09:26	Temperature, C:	
Sampling Date:	06/15/2022 15:27		
Sample Depth:	---		
Sample Matrix:	Water		

Multiple Tube Fermentation (5,5,5)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Presumptive Test	9	Positive Tubes	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	
Total Coliform, Confirmed Test	9	Positive Tubes	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	
Total Coliform, Density	130	MPN/100ml	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 06/29/2022 7:54
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

2214050-05

Water Analysis (Bacteriological)

COC Number:	---	District ID:	
Project Number:	---	System Number:	
Sampling Location:	---	Station Number:	
Sampling Point:	MW-3	Sample Site:	
Sampled By:	---	Residual Chlorine, ppm:	
Receive Date:	06/16/2022 09:26	Temperature, C:	
Sampling Date:	06/15/2022 09:55		
Sample Depth:	---		
Sample Matrix:	Water		

Multiple Tube Fermentation (5,5,5)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Presumptive Test	4	Positive Tubes	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	
Total Coliform, Confirmed Test	4	Positive Tubes	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	
Total Coliform, Density	9.2	MPN/100ml	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 06/29/2022 7:54
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

2214050-07

Water Analysis (Bacteriological)

COC Number:	---	District ID:	
Project Number:	---	System Number:	
Sampling Location:	---	Station Number:	
Sampling Point:	MW-4	Sample Site:	
Sampled By:	---	Residual Chlorine, ppm:	
Receive Date:	06/16/2022 09:26	Temperature, C:	
Sampling Date:	06/15/2022 11:17		
Sample Depth:	---		
Sample Matrix:	Water		

Multiple Tube Fermentation (5,5,5)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Presumptive Test	1	Positive Tubes	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	
Total Coliform, Confirmed Test	1	Positive Tubes	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	
Total Coliform, Density	2.0	MPN/100ml	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 06/29/2022 7:54
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

2214050-08

Water Analysis (Bacteriological)

COC Number:	---	District ID:	
Project Number:	---	System Number:	
Sampling Location:	---	Station Number:	
Sampling Point:	MW-4A	Sample Site:	
Sampled By:	---	Residual Chlorine, ppm:	
Receive Date:	06/16/2022 09:26	Temperature, C:	
Sampling Date:	06/15/2022 12:05		
Sample Depth:	---		
Sample Matrix:	Water		

Multiple Tube Fermentation (5,5,5)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Presumptive Test	13	Positive Tubes	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	
Total Coliform, Confirmed Test	13	Positive Tubes	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	
Total Coliform, Density	920	MPN/100ml	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 06/29/2022 7:54
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

2214050-09

Water Analysis (Bacteriological)

COC Number:	---	District ID:	
Project Number:	---	System Number:	
Sampling Location:	---	Station Number:	
Sampling Point:	MW-5A	Sample Site:	
Sampled By:	---	Residual Chlorine, ppm:	
Receive Date:	06/16/2022 09:26	Temperature, C:	
Sampling Date:	06/15/2022 13:07		
Sample Depth:	---		
Sample Matrix:	Water		

Multiple Tube Fermentation (5,5,5)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Presumptive Test	1	Positive Tubes	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	
Total Coliform, Confirmed Test	1	Positive Tubes	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	
Total Coliform, Density	2.0	MPN/100ml	SM-9221B	FBV	1	06/16/2022 11:50	06/18/2022	

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EcoUrban Associates
P.O. Box 411
Ione, CA 95640

Reported: 06/29/2022 7:54
Project: City of Ione Groundwater Monitoring WWTP
Project Number: [none]
Project Manager: Christopher Strong

Notes And Definitions

MPN Most Probable Number

RESOLUTION NO. 2022-10**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF IONE
APPOINTING THE VOTING DELEGATE AND ALTERNATE FOR THE
2022 LEAGUE OF CALIFORNIA CITIES ANNUAL CONFERENCE**

NOW, THEREFORE, BE IT RESOLVED that the City Council of the City of Ione at their regular meeting held on August 2, 2022 designated the following voting delegate and alternate for the 2022 League of California Cities Annual Conference as follows:

Voting Delegate: Dan Epperson, Mayor

Alternate: Rodney Plamondon, Vice Mayor

Alternate: Diane Wratten, Councilmember

The foregoing resolution was duly introduced and adopted by the City Council of the City of Ione at their regular meeting held on August 2, 2022 by the following vote:

AYES:

NOES:

ABSTAIN:

ABSENT:

Dan Epperson, Mayor

Attest:

Janice Traverso, City Clerk



Council Action Advised by August 31, 2022

DATE: June 1, 2022

TO: City Managers and City Clerks

**RE: DESIGNATION OF VOTING DELEGATES AND ALTERNATES
League of California Cities Annual Conference & Expo-September 7-9, 2022**

Cal Cities 2022 Annual Conference & Expo is scheduled for September 7-9, 2022 in Long Beach. An important part of the Annual Conference is the Annual Business Meeting (during General Assembly) on Friday, September 9. At this meeting, Cal Cities membership considers and acts on resolutions that establish Cal Cities policy.

In order to vote at the Annual Business Meeting, your city council must designate a voting delegate. Your city may also appoint up to two alternate voting delegates, one of whom may vote if the designated voting delegate is unable to serve in that capacity.

Please complete the attached Voting Delegate form and return it to Cal Cities office no later than Friday, September 2. This will allow us time to establish voting delegate/alternate records prior to the conference.

Please view Cal Cities' [event and meeting policy](#) in advance of the conference.

- **Action by Council Required.** Consistent with Cal Cities bylaws, a city's voting delegate and up to two alternates must be designated by the city council. When completing the attached Voting Delegate form, please attach either a copy of the council resolution that reflects the council action taken, or have your city clerk or mayor sign the form affirming that the names provided are those selected by the city council. Please note that designating the voting delegate and alternates **must** be done by city council action and cannot be accomplished by individual action of the mayor or city manager alone.
- **Conference Registration Required.** The voting delegate and alternates must be registered to attend the conference. They need not register for the entire conference; they may register for Friday only. Conference registration will open by June 1 on the [Cal Cities](#) website. In order to cast a vote, at least one voter must be present at the Business Meeting and in possession of the voting delegate card. Voting delegates and alternates need to pick up their conference badges before signing in and picking up the voting delegate card at the Voting Delegate Desk. This will enable them to receive the special sticker on their name badges that will admit them into the voting area during the Business Meeting.



- **Transferring Voting Card to Non-Designated Individuals Not Allowed.** The voting delegate card may be transferred freely between the voting delegate and alternates, but *only* between the voting delegate and alternates. If the voting delegate and alternates find themselves unable to attend the Business Meeting, they may *not* transfer the voting card to another city official.
- **Seating Protocol during General Assembly.** At the Business Meeting, individuals with the voting card will sit in a separate area. Admission to this area will be limited to those individuals with a special sticker on their name badge identifying them as a voting delegate or alternate. If the voting delegate and alternates wish to sit together, they must sign in at the Voting Delegate Desk and obtain the special sticker on their badges.

The Voting Delegate Desk, located in the conference registration area of the Long Beach Convention Center, will be open at the following times: Wednesday, September 7, 8:00 a.m. - 6:00 p.m.; Thursday, September 8, 7:00 a.m. - 4:00 p.m.; and Friday, September 9, 7:30 a.m.-12:30 p.m. The Voting Delegate Desk will also be open at the Business Meeting on Friday, but will be closed during roll calls and voting.

The voting procedures that will be used at the conference are attached to this memo. Please share these procedures and this memo with your council and especially with the individuals that your council designates as your city's voting delegate and alternates.

Once again, thank you for completing the voting delegate and alternate form and returning it to Cal Cities office by Friday, September 2. If you have questions, please call Darla Yacub at (916) 658-8254.

Attachments:

- Annual Conference Voting Procedures
- Voting Delegate/Alternate Form



Annual Conference Voting Procedures

1. **One City One Vote.** Each member city has a right to cast one vote on matters pertaining to Cal Cities policy.
2. **Designating a City Voting Representative.** Prior to the Annual Conference, each city council may designate a voting delegate and up to two alternates; these individuals are identified on the Voting Delegate Form provided to the Cal Cities Credentials Committee.
3. **Registering with the Credentials Committee.** The voting delegate, or alternates, may pick up the city's voting card at the Voting Delegate Desk in the conference registration area. Voting delegates and alternates must sign in at the Voting Delegate Desk. Here they will receive a special sticker on their name badge and thus be admitted to the voting area at the Business Meeting.
4. **Signing Initiated Resolution Petitions.** Only those individuals who are voting delegates (or alternates), and who have picked up their city's voting card by providing a signature to the Credentials Committee at the Voting Delegate Desk, may sign petitions to initiate a resolution.
5. **Voting.** To cast the city's vote, a city official must have in their possession the city's voting card and be registered with the Credentials Committee. The voting card may be transferred freely between the voting delegate and alternates, but may not be transferred to another city official who is neither a voting delegate or alternate.
6. **Voting Area at Business Meeting.** At the Business Meeting, individuals with a voting card will sit in a designated area. Admission will be limited to those individuals with a special sticker on their name badge identifying them as a voting delegate or alternate.
7. **Resolving Disputes.** In case of dispute, the Credentials Committee will determine the validity of signatures on petitioned resolutions and the right of a city official to vote at the Business Meeting.



CITY: _____

**2022 ANNUAL CONFERENCE
VOTING DELEGATE/ALTERNATE FORM**

Please complete this form and return it to Cal Cities office by Friday, September 2, 2022. Forms not sent by this deadline may be submitted to the Voting Delegate Desk located in the Annual Conference Registration Area. Your city council may designate one voting delegate and up to two alternates.

To vote at the Annual Business Meeting (General Assembly), voting delegates and alternates must be designated by your city council. Please attach the council resolution as proof of designation. As an alternative, the Mayor or City Clerk may sign this form, affirming that the designation reflects the action taken by the council.

Please note: Voting delegates and alternates will be seated in a separate area at the Annual Business Meeting. Admission to this designated area will be limited to individuals (voting delegates and alternates) who are identified with a special sticker on their conference badge. This sticker can be obtained only at the Voting Delegate Desk.

1 VOTING DELEGATE

Name: _____

Title: _____

2 VOTING DELEGATE - ALTERNATE

Name: _____

Title: _____

3 VOTING DELEGATE - ALTERNATE

Name: _____

Title: _____

ATIACH COUNCIL RESOLUTION DESIGNATING VOTING DELEGATE AND ALTERNATES OR

ATIEST: I affirm that the information provided reflects action by the city council to designate the voting delegate and alternate(s).

Name: _____

Email: _____

Mayor or City Clerk _____
(circle one) (signature)

Date _____ Phone: _____

Please complete and return by Friday, September 2, 2022 to:

Darla Yacub, Assistant to the Administrative Services Director

E-mail: dyacub@calcities.org Phone: (916) 658-8254

Agenda Item

#7

DATE: August 2, 2022

TO: Mayor Epperson and City Council

FROM: Michael Rock, Interim City Manager

SUBJECT: Authorize the Interim City Manager to sign an Engineering Services Agreement with Willdan Engineering Services

RECOMMENDED ACTION:

Staff recommends the award of an Engineering Services Agreement to Willdan Engineering Services (Willdan) with the specific scope of work and schedule of hourly rates attached.

FISCAL IMPACT:

The retainer fee is a not to exceed \$55,000 per year except the first of the contract staff is recommending a not to exceed \$85,000 due to backlogged projects and the unanticipated revenue from the ARPA funds. The retainer primarily covers all the official duties of the City Engineer, day-to-day engineering, administrative tasks and regular meetings with City staff. Willdan is also very qualified to provide all of the following services: wastewater design and construction management, grant writers for all capital projects (specifically qualified for wastewater grants), writing and reviewing RFPs, design engineering work for all CIP projects (street, sewer, landscape, parks and facility construction projects), project and construction management of all capital projects, landscape and park architect design services, public works inspections, and plan checks for all new construction and remodels.

BACKGROUND:

On May 17, 2022, the Council approved the release of a Request for Proposal (RFP) for Engineering Services. On July 15, 2022 all proposals were due and the City received one response from Willdan. On July 26, 2022, staff interviewed the Willdan team and discussed the scope of work for basic engineering services, plan checking of new subdivisions, project management, public works inspections, plans, specifications and design engineering for capital improvement projects and grant opportunities for the Head Works and other projects.

After several hours of interviewing and discussing the City's needs and reviewing the qualifications of the Willdan Team the Interim City Manager negotiated the recommended annual retainer and schedule of hourly rates. The rates are higher than previous agreements with engineering firms. However, Willdan is able to provide a significantly broader array of services and has a much larger staff allowing for many projects to occur simultaneously. In the adopted FY 2022/23 Budget there is \$700,000 in ARPA funds for design engineering and construction of several projects, wastewater funds for design engineering and construction and gas tax funds for the street resurfacing projects.

Reference checks were made and credentials were checked for Willdan and the reference checks were very positive.

ATTACHMENTS:

Agreement for Engineering Services

Exhibit A: Scope of Work

Exhibit B: Schedule of Hourly Rates

AGREEMENT FOR CITY ENGINEERING SERVICES

THIS AGREEMENT, made and entered into this 3rd day of August 2022, by and between the City of Ione, a municipal corporation located in the County of Amador, State of California, hereinafter referred to as "CITY," and Willdan Engineering, a California Corporation with corporate offices in Anaheim, CA and principal offices at 2240 Douglas Blvd, Suite 270, Roseville, CA 95661, hereinafter referred to as "ENGINEER."

WITNESSETH

WHEREAS, CITY has the need for city engineering and other miscellaneous engineering services; and

WHEREAS, CITY has the need for engineering services for capital projects, including construction management services, and other miscellaneous engineering services; and

WHEREAS, CITY desires to contract for such services with a private consultant; and

WHEREAS, ENGINEER is experienced in providing such services for municipal corporations and other public agencies and is able to provide personnel with the proper experience and background to carry out the duties involved; and

WHEREAS CITY wishes to retain ENGINEER for the performance of said services; and

WHEREAS, ENGINEER is an independent ENGINEER, and not an employee of the CITY.

NOW, THEREFORE, in consideration of the mutual covenants, benefits and promises herein stated, the parties hereto agree as follows:

CITY, pursuant to the authority set forth at California Government Code Sections 4526, 53060, and 36505, does hereby appoint ENGINEER, in a contractual capacity, to perform the following CITY services in accordance with the terms and conditions hereinafter set forth; with the authorities, responsibilities, and consideration ordinarily granted to an officer of the CITY.

The CITY services to be performed by the CONSULTANT pursuant to this Agreement are hereinafter referred to collectively as the "Services."

I. TERM

The Agreement term will commence on August 3, 2022, and expire on June 30, 2025, unless the Agreement term is amended, or the Agreement is terminated in accordance with its terms. The Parties may by mutual agreement and in accordance with Section XVIII, below, prior to June 30, 2025, agree to extend the Agreement Term for up to an additional three years or until June 30, 2028.

II. DUTIES OF ENGINEER

ENGINEER shall provide City Engineer services to the City as described in Exhibit A, Scope of Services.

III. DUTIES OF CITY

A. CITY agrees to make available to ENGINEER relevant public records including copies of reports, maps, and other file materials as may be needed for the ENGINEER to perform his duties and to cooperate in the collection of information which ENGINEER may request.

B. CITY shall promptly:

1. Notify ENGINEER of any defect in ENGINEER's performance; and
2. Review any documents submitted by ENGINEER for CITY's comment.

IV. FACILITIES AND RECORDS

CITY shall provide reasonable and appropriate offices for conducting the duties set forth in this Agreement. ENGINEER shall assemble and maintain in these offices such records as are customarily maintained by a CITY in carrying out the duties covered herein. Such records are and at all times shall be the property of the CITY. ENGINEER shall maintain time records for meetings, projects and work hours. ENGINEER shall assemble these records in an orderly fashion and store same, for at least three years or as otherwise required by law or CITY policy, in a mutually agreed upon location so that they may be reasonably available to the public or to the officials of CITY as required.

V. COMPENSATION TO ENGINEER

CITY agrees to pay ENGINEER for services performed in accordance with this Agreement as follows:

- A. For the services to be provided as City Engineer, the ENGINEER shall be paid on a time-and-materials basis with a rate of \$238 per hour for the designated City Engineer, and at a rate in accordance with the current hourly rate as set forth in Exhibit "B" for other ENGINEER personnel, or as may be adjusted annually each July 1. Notwithstanding the foregoing, any services that are charged to a specific project for which the City's costs and fees are reimbursed by the project applicant shall be paid on a time-and-materials basis with a rate of \$238 per hour for the designated City Engineer and at a rate in accordance with the current hourly rate as set forth in Exhibit "B" for other ENGINEER personnel, or as may be adjusted annually. Compensation for Plan Checking services for which a Development Fee is paid shall be on a cost-incurred basis. The ENGINEER shall be compensated at an agreed upon percentage of the plan check fee (further described in Exhibit "B") collected by the City for plan checks. This fee is for the initial check and one re-check for each Plan-Check project. If subsequent plan checks (beyond one re-check) are needed, services shall be provided on a time and materials basis in accordance with the current hourly rate as set forth in Exhibit "B", or as may be adjusted annually each July 1. If the cost required to perform the Plan Checking project exceeds the percentage of the plan-check fee to ENGINEER, then ENGINEER shall notify CITY prior to the depletion of the fee and request additional funds to continue with the Plan-Check project. If no additional funds are provided to continue the Plan Check project then ENGINEER may stop work on that Plan-Check project. Services provided under this AGREEMENT shall be performed based on Task Orders to be approved by the CITY Contract Manager.
- C. ENGINEER shall invoice CITY for services rendered and CITY shall pay ENGINEER as soon thereafter as CITY's regular procedures provide. When requested, ENGINEER shall provide the necessary background detail information as may be necessary to support charges shown on invoices to assist the CITY in invoicing development projects.

VI. TERMINATION

The CITY may terminate all or part of this Agreement as it pertains to the CITY and ENGINEER may terminate this Agreement without cause upon 30 days written notice. In the event of such termination, ENGINEER shall be compensated for Services performed in accordance with this Agreement through the termination effective date.

VII. RESPONSIBLE INDIVIDUALS

The individual directly responsible for the performance of the duties of and appointed the City Engineer as hereinabove set forth shall be Jonathan Mitchell, a Registered Civil

Engineer, in the State of California. License No. 78864. The City Engineer may supply another registered civil engineer experienced in municipal engineering to work on his behalf, provided that the assigned individual receives prior approval from the City Manager.

Upon the CITY'S prior written approval, ENGINEER may substitute other individuals in the above capacities as responsible individuals. Prior to requesting substitution of personnel, ENGINEER shall provide resumes of proposed personnel to the City Manager for review and approval.

The CITY Contract Manager, responsible for the approval of Task Orders for the performance of Services under this AGREEMENT is the City Manager.

VIII. INDEPENDENT ENGINEER

ENGINEER and CITY agree that the ENGINEER will perform the Services as an independent ENGINEER and not as an employee or agent of the CITY. Persons employed or utilized by ENGINEER in the performance of the Services will not be employees of the CITY.

IX. SUBCONTRACTING

ENGINEER may subcontract portions of the CITY Services upon the prior written approval of the CITY. The ENGINEER will be solely responsible for payment for such subcontract services. No contractual relationship will exist between any such subconsultants of the ENGINEER and the CITY.

X. STANDARD OF PERFORMANCE

ENGINEER will perform the Services in the manner and according to the standards observed by a competent practitioner of the profession in which ENGINEER is engaged in the geographical area in which ENGINEER practices its profession. In ENGINEER'S best professional judgment. ENGINEER will comply with federal, state and local laws applicable to performance of the Services, including but not limited to, the California Building Standards Code as in effect in the City, the Americans with Disabilities Act, and any laws and regulations related to any copyright, patent, trademark or other intellectual property right involved in performance of the services. CITY may treat ENGINEER's failure to comply with any law(s) or regulation(s) applicable to the performance of the services hereunder as a material breach of this agreement.

XI. INDEMNITY

ENGINEER shall, to the fullest extent allowed by law, with respect to all services performed in connection with this Agreement, defend with counsel acceptable to CITY, indemnify, and hold CITY, its officers, employees, agents, ("Indemnitees"), harmless from and against any and all claims to the extent arising out of the negligence, recklessness, or willful misconduct of the ENGINEER, ("Claims"), ENGINEER will bear all losses, costs, damages, expense and liability of every kind, nature and description that arise out of, pertain to, or relate to such Claims, whether directly or indirectly, to the extent ENGINEER is determined to be culpable by a court of competent jurisdiction. With respect to third party Claims against the ENGINEER, the ENGINEER waives any and all rights of any type of express or implied indemnity against the Indemnitees to the extent ENGINEER is determined to be culpable by a court of competent jurisdiction.

In addition, and notwithstanding the forgoing, to the extent this Agreement is a "construction contract" as defined by California Civil Code section 2783, as may be amended from time to time, such duties of ENGINEER to indemnify shall not apply when to do so would be prohibited by California Civil Code Section 2782.

Acceptance of insurance, if required by this Agreement, does not relieve ENGINEER from liability under this indemnification clause. This indemnification clause shall apply to all damages or claim for damages suffered by ENGINEER's negligence, recklessness, or willful misconduct regardless if any insurance is applicable or not.

CITY and ENGINEER each agree to indemnify and hold the other harmless, and their respective officers, employees, agents, and representatives, from and against liability for all claims, losses, damages, and expenses, including reasonable attorneys' fees, to the extent such claims, losses, damages, or expenses are caused by the indemnifying party's negligent acts, errors, or omissions. In the event claims, losses, damages, or expenses are caused by the joint or concurrent negligence of Client and Consultant, they shall be borne by each party in proportion to its negligence.

XII. INSURANCE

- A. THIS CONTRACT/AGREEMENT SHALL NOT BE EXECUTED BY CITY and the ENGINEER is not entitled to any rights, unless certificates of insurances, or other sufficient proof that the following provisions have been complied with, and such certificate(s) are filed with the CITY CLERK.
- B. Without limiting ENGINEER's indemnification provided herein ENGINEER shall require any of its subcontractors to take out and maintain, throughout the period of

this Agreement, the following policies of insurance placed with insurers with a current A.M. Best's rating of no less than A: V II or its equivalent against injury/death to persons or damage to property which may arise from or in connection with the activities hereunder of ENGINEER, its agents, employees or subcontractors:

- 1 . Comprehensive or Commercial General Liability Insurance at least as broad as Insurance Services Office Commercial General Liability coverage (form CG 0001), in an amount of \$1,000,000 per occurrence. If work involves explosive, underground or collapse risks, XCU must be included. If a general aggregate limit is used, either the general aggregate limit shall apply separately to this project, or the general aggregate shall be twice the required occurrence limit. Said policy shall contain, or be endorsed with, the following provisions:
 - a. The City, its officers, employees and agents, are covered as additional insured for liability arising out of the operations performed by or on behalf of ENGINEER. The coverage shall contain no special limitations on the scope of protection afforded to the City, its officers, agents, and employees.
 - b. The policy shall not be canceled without thirty (30) days prior written notice (10 days for non-payment of the premium) to CITY by mail.
 - c. The inclusion of more than one insured shall not operate to impair the rights of one insured against another insured, and the coverage afforded shall apply as though separate policies had been issued to each insured, but the inclusion of more than one insured shall not operate to increase the limits of the insurer's liability.
 - d. For claims related to this project, the ENGINEER's general/auto liability insurance is primary coverage to the City, and any insurance or self-insurance programs maintained by the City are excess to ENGINEER's insurance and will not be called upon to contribute with it.
 - e. Any failure to comply with reporting or other provisions of the parties, including breach of warranties, shall not affect coverage provided to City, its officers, employees, and agents.
2. Automobile liability insurance with coverage at least as broad as Insurance Services Office form CA 0001 06092, Code I (any auto), for vehicles used in the performance of this Agreement with minimum coverage of not less \$0 than per accident combined single limit (CSL). Such policy shall contain or be endorsed

with the provision that coverage shall not be canceled without thirty (30) days prior written notice (10 days for non-payment of premium) to CITY by certified mail.

3. Workers' Compensation insurance meeting statutory limits of the California Labor Code which policy shall contain or be endorsed to contain a waiver of subrogation against City, its officers, agents, and employees and provide for thirty _____ (30) days prior written notice in the event of cancellation (10 days for nonpayment of premium) to CITY by mail.
4. Professional liability insurance/errors and omission coverage in an amount no less than \$1,000,000 combined single limit (CSL). If insurance is written on claims made basis, ENGINEER agrees to maintain such insurance in effect for at least three (3) years following completion of performance under this Agreement.
5. ENGINEER shall furnish CITY with certificates and original endorsements effecting the required coverage prior to execution of this Agreement by City. The endorsements shall be on standard insurance industry forms as approved by the City Manager or designee. Any deductible or self-insured retention over \$100,000 shall be disclosed to and approved by CITY. If ENGINEER does not keep all required policies in full force and effect, CITY may, in addition to other remedies under this Agreement, take out the necessary insurance, and ENGINEER agrees to pay the cost of said insurance.

XIII. NON-DISCRIMINATION

During the performance of this Agreement, ENGINEER will not discriminate against any employee of the ENGINEER or applicant for employment because of race, religion, creed, color, national origin, gender, or age. ENGINEER will take affirmative action to ensure that applicants are employed and that employees are treated during employment without regard to their race, religion, creed, color, national origin, gender or age.

XIV. BUSINESS LICENSE

ENGINEER and any subcontractors must acquire at their sole expense a business license from the CITY. Such licenses must be kept valid throughout the Agreement term.

XV. OWNERSHIP OF WORK PRODUCTS AND TREATMENT OF DOCUMENTS

All plans, specifications, reports, designs and other documents prepared by ENGINEER pursuant to this Agreement shall be and remain the property of the CITY. Any modification or reuse of such documents by the CITY without ENGINEER's prior written consent will be at the CITY's sole risk and CITY agrees to indemnify and hold

ENGINEER harmless from claims or allegations arising out of CITY's alteration or reuse of such documents.

XVI. BINDING EFFECT AND ASSIGNMENT PROHIBITION

This Agreement is binding upon CITY, ENGINEER, and their successors. Except as otherwise provided herein, neither CITY nor ENGINEER may assign, sublet or transfer its interest in this Agreement or any part thereof without the prior written consent of the other parties, and any purported assignment without such consent will be void.

XVII. REPRESENTATIVES

The City Manager is the CITY's representative for purposes of this Agreement. The ENGINEER representative for purposes of this Agreement will be Jonathan Mitchell, Willdan Engineering. The parties' designated representatives will be the primary contact persons regarding the performance of the Services. The parties intend that their designated representatives will cooperate in all matters regarding this Agreement and in such manner to achieve performance of the Services in a timely and expeditious fashion.

XVIII. INTEGRATION AND AMENDMENT

This Agreement represents the entire and integrated agreement between CITY and ENGINEER and supersedes all prior negotiations, representations or agreements, whether written or oral. This Agreement may only be amended in writing and signed by a representative authorized to bind the ENGINEER and a representative authorized to bind the CITY.

XIX. CONFLICT OF INTEREST PROHIBITION

CITY and ENGINEER will comply with the requirements of the CITY'S Conflict of Interest Code adopted pursuant to the provisions of California Government Code Section 87300 and following, the Political Reform Act (California Government Code Section 81000 and following), the regulations promulgated by the Fair Political Practices Commission (Title 2, Section 181 10 and following of the California Code of Regulations), California Government Code Section 1090 and following, and any other ethics laws applicable to the performance of the Services and/or this Agreement. The ENGINEER may not perform services for any other person or entity that, pursuant to any applicable law or regulation, would result in a conflict of interest or would otherwise be prohibited with respect to the ENGINEER's obligations pursuant to this Agreement. The ENGINEER agrees to cooperate fully with the CITY and to provide

any necessary and appropriate information requested by the CITY or any authorized representative concerning potential conflicts of interest or prohibitions concerning the ENGINEER's obligations pursuant to this Agreement.

ENGINEER may not employ any CITY official, officer or employee in performance of the Services, nor may any official, officer or employee of the CITY have any financial interest in this Agreement that would violate California Government Code Section 1090. ENGINEER understands that, if this Agreement is made in violation of Government Code Section 1090 and following, the entire Agreement is void and ENGINEER will not be entitled to any compensation for ENGINEER's performance of the Services, including reimbursement of expenses, and ENGINEER will be required to reimburse the CITY for any sums paid to the ENGINEER under this Agreement. ENGINEER understands that, in addition to the foregoing, penalties for violating Government Code Section 1090 may include criminal prosecution and disqualification from holding public office in the State of California. Any violation by the ENGINEER of the requirements of this provision will constitute a material breach of this Agreement, and the CITY reserves all rights and remedies at law and equity concerning any such violations.

XX. APPLICABLE LAW

The laws of the State of California shall govern the rights, obligations, duties and liabilities of the parties to this Agreement and the interpretation of this Agreement.

XXI. RECOVERY OF ATTORNEY'S FEES

If a party to this Agreement brings any action, including an action for declaratory relief, to enforce or interpret any term of this Agreement, the prevailing party will be entitled to reasonable attorneys' fees in addition to any other relief to which that party may be entitled. The court may set such fees in the same action or in a separate action brought for that purpose.

XXII. SEVERABILITY

If a court of competent jurisdiction finds or rules that any provision of this Agreement is invalid, void, or unenforceable, the provisions of this Agreement not so adjudged will remain in full force and effect. The invalidity in whole or in part of any provision of this Agreement shall not void or affect the validity of any other provision of this Agreement.

IN WITNESS HEREOF the parties have caused their authorized representative to execute this Agreement on this 3rd day of August 2022.

CITY OF IONE

By: _____
Michael Rock
Interim City Manager

Willdan Engineering

BY: _____
Adel M. Freij, Director - Engineering

ATTEST:

BY: _____
Janice Traverso, City Clerk

EXHIBITS:

Exhibit A — Scope of Services
Exhibit B — Schedule of Hourly Rates

EXHIBIT A - SCOPE OF SERVICES

The engineering services to be provided to the City include but are not limited to the following:

SCOPE OF WORK

General and Project Management Services

Willdan will provide the following City Engineer/Engineering Services:

- Manage all aspects of civil engineering, plan checking, development conditioning and capital project management for the City.
- Review all matters pertaining to engineering to ensure that undertakings proposed and implemented by the City and others are done in a manner that protects the City's interests, and are in keeping with City goals, specifications and practices as well as with local, state and federal laws.
- Assist in planning, coordinating, supervising and evaluating programs, plans, services, equipment and infrastructure.
- Develop and recommend policies and procedures for effective operation of the City consistent with City policies and relevant laws, rules and regulations and ensures Councils actions are implemented.
- Evaluate the City's needs and formulates short and long-range plans to meet needs in all areas of Public Works improvements, including streets, water, sewer, storm drainage, streetlights, parks and facilities.
- Provide engineering services on projects and oversees project management for the construction of municipal public works projects.
- Review land use applications and construction plans for private developments for consistency with City-adopted engineering specifications, City policies and relevant laws, rules and regulations and ensures council actions are implemented.
- Ensure that costs and fees are charged back to development projects; works with the Public Works Superintendent to monitor charges and revenues associated with development projects.
- Make presentations to the public, City Council and commissions.
- Be available to the public and private developers to handle matters dealing with the engineering functions of City government.
- Maintain, at City Hall, municipal engineering records and maps required to ensure accurate information is available to the City and public.
- Prepare reports, investigations, studies and evaluations as, from time to time, may be required and directed by the City Manager or his designee.
- Perform other engineering-related functions, as directed by the City Manager or his designee.
- Advise the City as to engineering and construction financing available from other government agencies, and when so directed, prepare and initiate applications for funding. Also serve as Resident Engineer when required pursuant to Caltrans/Federal requirements.
- Assist clerical staff in management of records relating to engineering. Serve as liaison to the Public Works Manager for engineering related matters. Provide public information regarding municipal engineering matters.
- Prepare capital improvement projects, improvement plans, specifications, bid documents and public improvement project management.
- Solicit proposals for capital improvement project design work.
- Review and evaluation of bid submittals.
- Provide construction observation and management during the course of City projects. Act as Resident Engineer. Assist with inspection, approval of payments, cost estimating, filing of notices and other related tasks.



- Coordinate activities with other departments and outside agencies to obtain various approvals and agreements such as environmental clearances, permits, land acquisitions and rights-of-way for assigned engineering projects.
- Under general direction, plan, organize and administer a real property program for the acquisition and disposition of City owned property as it relates to engineering projects.
- Negotiate land acquisition, disposition, easements, agreements, leases and other assorted property rights as it relates to engineering projects.
- Coordinate appraisal of residential, commercial, industrial and agricultural properties for acquisition, disposition, lease etc., as it relates to engineering projects.

Detailed Scope of Work

Willdan's City Engineer and Deputy City Engineer and other key staff members will provide the services above, as described in the following detailed scope of work:

Development Review Services

Willdan will perform the following Development Review Services:

- Review proposed improvements and land developments and provide recommendations as to engineering matters to insure conformance with City ordinances and State law.
- Perform statutory functions of the City Engineer pertaining to the review and checking of lot line adjustments, parcel and tract maps, including tentative, final and vesting maps. Ensure map conformance with State Subdivision Map Act and City ordinances.
- Provide a "turn around" checking time for maps and improvement plans generally not to exceed two weeks for the first plan check and the application has been determined complete. Willdan's City Engineering staff will notify the applicant in writing of any final plan or final map deficiencies within (30) days, specifying those items needed to complete the application.
- Establish performance, labor and material bond amounts when required and ensure the posting of such bonds with the proper time sequence of such development control.
- Provide necessary and related functions as are the normal practice of the City Engineer in control of private development.
- Review and recommend approval of grading plans, National Pollutant Discharge Elimination System/Low Impact Development (NPDES/LID), street improvement plans, sanitary sewer plans, storm drain plans, traffic signal and traffic control plan checks for both public and private developments.
- Review and recommend the approval of Low Impact Development reports, traffic impact reports, hydraulics and hydrology studies and sewer studies for both public and private developments.
- Provide a preliminary design review of site/grading plans and attend City design review meetings as necessary.
- Review and recommend approval plan check easements, lot line adjustments, dedications, vacations, subdivision, final parcel and tract maps projects.
- Provide inspection services for grading activities, NPDES/LID compliance, street improvements, sanitary sewer and storm drain installation.
- Provide preliminary engineering and civil engineering design services and survey, as necessary.
- Provide information regarding any additional support services that may aid the City.



- Research existing City engineering records for consistency with the proposed improvements. Visit the project site to verify the proposed improvements are consistent with the physical constraints in the field.
- Pick up plan check submittals from the City within 24 hours of notification by the City. The first plan check shall be completed within ten (10) working days unless otherwise directed by the City. Each subsequent plan check shall be completed within ten (10) working days unless otherwise directed by the City.

Traffic Engineering Services

- Provide City Traffic Engineering Services, including the attendance of City Council, Traffic and Transportation Commission, and other meetings as necessary.
- Provide geometric design, traffic signal design, including complete preparation of plans, specifications and estimates, signing and striping plan, and the construction administration/inspection of these facilities.
- Review environmental studies/traffic impact studies for the proposed development projects, studies and report preparations for items such as traffic control devices (traffic signals, stop signs, etc.), citizen complaints and concerns, level of service at intersections, school safety issues and speed surveys/speed limit determinations.
- Prepare traffic data for compliance with the Congestion Management Program.
- Review and assist City staff with Vehicle Mile Traveled (VMT).
- Prepare traffic signal operation and coordination studies, including the implementation of signal timing and coordination programs.
- Coordinate with City staff and Consultants for traffic requirements for Capital Improvement Program projects.
- Conduct warrant studies for traffic control devices.
- Provide traffic related services for rail crossings safety improvement projects including wiring diagrams and timing preemption.
- Provide other related services as requested/directed by the City.

NPDES Compliance and Stormwater Services

- Assist staff with meeting the overall requirements of the General NPDES Permit including staying current of any changes of the Permit and implementing innovative techniques and best practices programs and measures designed to facilitate compliance with the permit
- Compile and review documents for the preparation and submittal of the City's Annual NPDES Report.
- Assist staff with keeping accurate and current records of required information of all construction and post-construction pertinent to the Annual Report and submitting annual report using Wramps.
- Review compliance-related documents and prepare required reporting documents.
- Review Storm Water Pollution Prevention Plans (SWPPP) for compliance.
- Develop and implement requirements including comprehensive BMP measures and maintenance schedules for developers to comply with.
- Perform commercial and industrial inspections per the requirements of the NPDES permit.
- Update and implement an Illicit Connection/Illicit Discharge detection and elimination program.
- Represent the City at various industry meetings and workshops.
- Provide training and assist staff to implement stormwater management plans.

Civil Engineering Design Services

- Provide civil engineering design services for various CIP projects including the preparation of Plans, Specifications and Estimate (PS&E).



- Conduct utility investigations, field investigations, engineering surveying, and coordination with utilities and agencies.
- Provide engineering services and value engineering as needed.
- Provide grading, drainage, and floodplain studies.
- Provide site development plans.
- Prepare Pedestrian and Bicycle Master Plans.
- Update Sewer and Storm Drain Master Plans.
- Provide Storm Water and BMP system design including erosion and sedimentation control.
- Prepare hydraulic and hydrologic studies.
- Prepare sewer capacity studies.
- Provide conceptual design and alternative development plans and schematic plans including 3D modeling and videos of the project as needed.
- Conduct Information Workshops, monthly status meetings and presentations to the City Officials as needed.
- Perform land surveys for the project as needed.

Construction Management and Inspection Services

- Provide construction management, contract administration, and inspection for various construction projects including storm drain and pipeline relocation, street improvements, traffic signal improvements, roadway widening, striping, traffic control, utility protection (with relocation if required), and project quality control.
- Provide specialty inspection, City retained, for concrete work, electrical/telemetry, structural, and equipment testing and schedule the appropriate inspector and associated certification for the task being supervised.
- Provide document management (i.e., shop drawings, Request for Information (RFI), change order, monthly reports, progress payment, memos, meeting minutes, etc.).
- Coordinate meetings with City representatives, contractors, and other agencies related to the project.
- Coordinate geotechnical and materials testing by City-retained laboratory.
- Provide constructability reviews.
- Schedule and oversee pre-construction meetings with the City, affected Agencies, and Contractor and prepare meeting minutes.
- Establish coordination and communication procedures among participants.
- Coordinate site mobilization of Contractor.
- Provide and maintain contract administration and full-time project inspection.
- Establish and implement coordination and communication procedures among all Project participants.
- Review Contractors' CPM schedule and monitor updates on a weekly basis.
- Prepare comprehensive monthly reports with construction updates; monthly reports will consist of the progress, compliance, issues with their corresponding solutions, submittal log sheets, change order log report, clarification log report, testing log report, photos, etc.
- Log Compliance of Environmental documentation and BMPs.
- Evaluate all contractor claims and coordinate the resolution of conflicts in the plans and/or specifications, contractor-suggested design changes, and design changes necessitated by unforeseen field conditions.
- Establish and implement procedures for processing and expediting Requests for Information (RFI), Requests for Clarification (RFC), approval of shop drawing submittals, approval of material and equipment sample submittals, approval of contract schedule adjustments, negotiate and recommend for approval of change orders, substitutions and review and recommend for approval of payment requests.



- Conduct field interviews for federal-funded projects.
- Provide verification of materials and construction equipment, all facility construction, street restoration and site improvements.
- Verify contractor protection of existing survey monuments and their restoration.
- Ensure compliance with all permitting requirements, agency requirements and local regulations.
- Monitor contractor's safety program and performance as required for compliance with Cal/OSHA.
- Monitor the maintenance of the Project Record Drawings during construction and the final preparation of "as-built" drawings after project completion.
- Prepare final punch-list and verify completion of punch list items by Contractor for final acceptance by City.
- Assist in project closeout and assemble all warranties, guarantees, and operation and maintenance manuals.
- Submit the final construction management report summarizing the project history, including major problems, claims, and recommendations, actions taken for corrective action.

Landscape Architectural Services

- Provide landscape architectural and engineering services for City parks, trails, street medians, and parking lots, and attend City Council meetings, and other meetings as necessary.
- Provide landscape architectural services, including complete preparation of plans, specifications, estimates, and scheduling.
- Provide complete data collection including, but not limited to, file review, General Plan review, scoping meetings, boundary, and topographic surveying, research of existing utility locations, and engineering studies.
- Coordinate with City staff and consultants for Capital Improvement Program projects and other City projects.
- Provide conceptual design and alternative development plans and schematic plans including 3D modeling and videos of the project as needed.
- Conduct information workshops, monthly status meetings and presentation to City as needed.
- Provide information regarding any additional support services that may aid the City.
- Provide other related services as requested/directed by the City.



EXHIBIT B

SCHEDULE OF HOURLY RATES



WILLDAN ENGINEERING

Schedule of Hourly Rates

Effective July 1, 2022 to June 30, 2023

DESIGN ENGINEERING		BUILDING AND SAFETY		CONSTRUCTION MANAGEMENT	
Technical Aide I	\$74	Assistant Code Enforcement Officer	\$98	Labor Compliance Specialist	\$132
Technical Aide II	\$96	Code Enforcement Officer	\$112	Labor Compliance Manager	\$166
Technical Aide III	\$115	Senior Code Enforcement Officer	\$132	Utility Coordinator	\$167
CAD Operator I	\$120	Supervisor Code Enforcement	\$160	Office Engineer I	\$133
CAD Operator II	\$139	Plans Examiner Aide	\$105	Office Engineer II	\$148
CAD Operator III	\$154	Plans Examiner	\$160	Assistant Construction Manager	\$145
GIS Analyst I	\$160	Senior Plans Examiner	\$175	Construction Manager	\$168
GIS Analyst II	\$175	Assistant Construction Permit Specialist	\$112	Senior Construction Manager	\$182
GIS Analyst III	\$185	Construction Permit Specialist	\$118	Resident Engineer I	\$189
Environmental Analyst I	\$133	Senior Construction Permit Specialist ***	\$139	Resident Engineer II	\$196
Environmental Analyst II	\$149	Supervising Construction Permit Specialist	\$147	Project Manager IV	\$212
Environmental Analyst III	\$159	Assistant Building Inspector	\$132	Deputy Director	\$220
Environmental Specialist	\$171	Building Inspector***	\$147	Director	\$226
Designer I	\$160	Senior Building Inspector	\$160	INSPECTION SERVICES	
Designer II	\$166	Supervising Building Inspector	\$175	Public Works Observer **	\$113
Senior Designer I	\$175	Inspector of Record	\$187	Public Works Observer ***	\$138
Senior Designer II	\$184	Deputy Building Official	\$187	Senior Public Works Observer**	\$124
Design Manager	\$185	Building Official	\$189	Senior Public Works Observer ***	\$138
Senior Design Manager	\$188	Plan Check Engineer	\$183	MAPPING AND EXPERT SERVICES	
Project Manager I	\$169	Supervising Plan Check Engineer	\$185	Survey Analyst I	\$139
Project Manager II	\$187	Principal Project Manager	\$216	Survey Analyst II	\$160
Project Manager III	\$197	Deputy Director	\$220	Senior Survey Analyst	\$182
Project Manager IV	\$212	Director	\$226	Supervisor - Survey & Mapping	\$191
Principal Project Manager	\$216	PLANNING		Principal Project Manager	\$216
Program Manager I	\$187	CDBG Technician	\$78	LANDSCAPE ARCHITECTURE	
Program Manager II	\$199	CDBG Specialists	\$93	Assistant Landscape Architect	\$139
Program Manager III	\$217	CDBG Analyst	\$110	Associate Landscape Architect	\$160
Assistant Engineer I	\$133	CDBG Coordinator	\$138	Senior Landscape Architect	\$175
Assistant Engineer II	\$148	CDBG Manager	\$166	Principal Landscape Architect	\$185
Assistant Engineer III	\$157	Planning Technician	\$118	Principal Project Manager	\$216
Assistant Engineer IV	\$165	Assistant Planner	\$147		
Associate Engineer I	\$170	Associate Planner	\$160		
Associate Engineer II	\$177	Senior Planner	\$182		
Associate Engineer III	\$181	Principal Planner	\$189		
Senior Engineer I	\$184	Planning Manager	\$201		
Senior Engineer II	\$188	Deputy Director	\$220		
Senior Engineer III	\$192	Director	\$226		
Senior Engineer IV	\$195	ADMINISTRATIVE			
Supervising Engineer	\$199	Administrative Assistant I	\$90		
Traffic Engineer I	\$199	Administrative Assistant II	\$109		
Traffic Engineer II	\$212	Administrative Assistant III	\$127		
Deputy City Engineer	\$192	Project Accountant I	\$102		
City Engineer	\$238	Project Accountant II	\$119		
Deputy Director	\$220	Project Controller I	\$127		
Director	\$226	Project Controller II	\$143		

** For Non-Prevailing Wage Project *** For Prevailing Wage Project

Mileage/Field Vehicle usage will be charged at the rate in accordance with the current FTR mileage reimbursement rate, subject to negotiation.

Additional billing classifications may be added to the above listing during the year as new positions are created. Consultation in connection with litigation and court appearances will be quoted separately. The above schedule is for straight time. Overtime will be charged at 1.5 times, and Sundays and holidays, 2.0 times the standard rates. Blueprinting, reproduction, messenger services, and printing will be invoiced at cost plus fifteen percent (15%). A sub consultant management fee of fifteen percent (15%) will be added to the direct cost of all sub consultant services to provide for the cost of administration, consultation, and coordination. Valid July 1, 2022 thru June 30, 2023, thereafter, the rates may be raised once per year to the value between the 12-month % change of the Consumer Price Index for the Los Angeles/Orange County/Sacramento/San Francisco/San Jose area and five percent. For prevailing wage classifications, the increase will be per the prevailing wage increase set by the California Department of Industrial Relations.

Rev 5/31/2022 V02



- ❖ It is anticipated that the annual not-to-exceed fee for basic city engineering services shall be \$55,000 (not including development review or project or program specific tasks), to be approved by Task Order under this AGREEMENT. For the first year of this Agreement, it is anticipated that the not-to-exceed amount for basic engineering services will be increased by \$30,000. (total of \$85,000 for first year basis City Engineer services) to organize project delivery plans, initiate work on projects that have been in various stages of completion and inactive, establish agency coordination in support of regional funding sources (ACTC), and Caltrans operations and capital, and provide additional on-site representation during this transition (such as City Council meeting attendance as appropriate, staff and community-based meetings).
- ❖ For development related items, ENGINEER will charge Time and Materials (T&M) at its scheduled hourly rates.
- ❖ As with other Services provided under this Agreement, for capital project design work and administration, construction management, specific tasks, programs, or special studies the City requests ENGINEER submit a separate task order, including scope and fee to be negotiated with the City and to be approved by the City Contract Manager. Once negotiated the City will approve the task order.
- ❖ Consultation in connection with litigation and court appearances will be quoted through separate task orders under this AGREEMENT.
- ❖ Additional billing classifications may be added to the above listing during the year as new positions are created.

Agenda Item

#8(a-c)

DATE: August 2, 2022

TO: MAYOR EPPERSON AND CITY COUNCIL

FROM: MICHAEL ROCK, INTERIM CITY MANAGER

SUBJECT: RESOLUTIONS # 2022-13, 2022.14, AND 2022-15 OF THE CITY COUNCIL OF THE CITY OF IONE, ACTING IN ITS CAPACITY AS THE LEGISLATIVE BODY OF THE COMMUNITY FACILITIES DISTRICT NOS. 2005-2, 2006-1 and 2009-3 OF THE CITY OF IONE AUTHORIZING THE LEVY OF SPECIAL TAXES FOR FISCAL YEAR 2022-2023

RECOMMENDED ACTION:

That the City Council:

- Approve Resolution No. **2022-13** of the City Council of the City of Ione, acting in its capacity as the legislative body of the Community Facilities District No. 2005-2 of the City of Ione (Edgebrook and Castle Oaks Phase II) authorizing the levy of special taxes for fiscal year 2022-2023.
- Approve Resolution No. **2022-14** of the City Council of the City of Ione, acting in its capacity as the legislative body of the Community Facilities District No. 2006-1 of the City of Ione (Wildflower-Public Safety Services) authorizing the levy of special taxes for fiscal year 2022-2023.
- Approve Resolution No. **2022-15** of the City Council of the City of Ione, acting in its capacity as the legislative body of the Community Facilities District No. 2009-3 of the City of Ione (Castle Oaks Phase II) authorizing the levy of special taxes for fiscal year 2022-2023.

SOURCE OF FUNDING:

All CFDs are special tax levies pursuant to Section 53340 of the Government Code and Ordinance Nos. 392, 427 and 428 respectively.

DISCUSSION:

There are various annual reporting requirements with different reporting dates related to the City of Ione Community Facilities District Nos. 2005-1, 2005-2, 2006-1 and 2009-3 (CFD Nos. 2005-1, 2005-2, 2006-1 and 2009-3). The requirements include, among other items, City Council approval of the "Annual Levy of Special Tax" resolutions authorizing the levy of special taxes within CFD Nos. 2005-1, 2005-2, 2006-1 and 2009-3. The annual levy is necessary to pay debt service on the outstanding bonds and to pay for certain public services. Approval is due each

year prior to the County of Amador's August 10th deadline for the inclusion of such special taxes on the consolidated property tax bills pursuant to Government Code Section 43340 of the Mello-Roos Community Facilities Act of 1982 (the Act), or in the case of direct billing, at a different time or in a different manner if necessary to meet its financial obligations.

CFD No. 2005-1 was established on February 22, 2005, and the special taxes were for facilities. CFD No. 2005-1 encompassed 211 residential homes and the golf course clubhouse. The CFD No. 2005-1 Special Tax Bonds had a final maturity of September 1, 2016. Accordingly, parcels within CFD No. 2005-1 are no longer subject to the levy of special taxes. Furthermore, a notice of cessation of the special tax for CFD No. 2005-1 has been recorded with Amador County evidencing that the special tax lien imposed on the parcels within CFD No. 2005-1 has been extinguished.

CFD No. 2005-2 was established on June 6, 2006, and there are three improvement areas. They are: Improvement Area No. 1, Improvement Area No. 2 and Improvement Area No. 3. Each Improvement Area has a facilities special tax (Special Tax A) and a services special tax (Special Tax B).

Improvement Area No. 1 encompasses approximately 34.8 acres and contains 140 residential units. Subsequent to the issuance of Improvement Area No. 1 Special Tax Bonds, 39 homeowners have elected to fully prepay their applicable facilities special tax obligation, and 101 remaining residential parcels will be subject to the levy of the facilities special tax. For fiscal year 2022-2023, 140 residential parcels will also be subject to the levy of the services special tax since building permits for all such parcels were issued prior to May 1, 2022.

Improvement Area No. 2 encompasses approximately 38.4 acres and contains 154 residential units. The Improvement Area No. 2 Special Tax Bonds had a final maturity of September 1, 2017. Accordingly, parcels within Improvement Area No. 2 are no longer subject to the levy of the facilities special tax. For fiscal year 2022-2023, 154 residential parcels will be subject to the levy of the services special tax since building permits for all such parcels were issued prior to May 1, 2022.

Improvement Area No. 3 encompasses approximately 133.8 acres and at full development is anticipated to contain approximately 427 residential units and 13.0 acres of non-residential development. Subsequent to the issuance of Improvement Area No. 3 Special Tax Bonds, the facilities special tax obligation applicable to 326 residential parcels has been fully prepaid. For fiscal year 2022-2023 there are 11 parcels in Improvement Area No. 3 (consisting of 8 residential parcels and 3 undeveloped parcels) that will be subject to the levy of the facilities special tax. For fiscal year 2022-2023, 288 residential parcels will also be subject to the levy of the services special tax since certificates of occupancy for such parcels were issued prior to May 1, 2022.

CFD No. 2006-1 was established on February 7, 2006, and the special taxes are for services. At full development CFD No. 2006-1 is anticipated to contain approximately 276 residential parcels. For fiscal year 2022-2023, 170 residential

parcels will be subject to the levy of the special tax since building permits for such parcels were issued prior to June 30, 2022.

CFD No. 2009-3 was established on April 7, 2009, and the special taxes are for services. CFD No. 2009-3 encompasses 143 residential parcels that are subject to the levy of the special tax. All 143 residential parcels are subject to the levy of a fiscal year 2022-2023 special tax since certificates of occupancy for such parcels were issued prior to May 1, 2022.

FINANCIAL IMPACT:

All CFDs and special districts are restricted funds under Section 53340 of the Government Code and Ordinance Nos. 392, 427 and 428 respectively. Monies collected can only be spent on the specific legal purpose for the CFD or special district. No monies can be transferred to the general fund for unrestricted programs or staff salaries or benefits not related to a CFD or special district.

The special taxes being levied hereunder are at the same rate or at a lower rate than last fiscal year. Each ordinance sets forth the rate and method of apportionment (RMA) for the respective CFD and for each of the improvement areas within CFD No. 2005-2.

OTHER AGENCY INVOLVEMENT:

Shayne M. Morgan of DTA, Inc., special tax consultant to the City.

ATTACHMENTS:

Resolution Nos. 2022-13, 2022-14 and 2022-15
Fiscal Year 2022-23 Lone CFD Services Breakdown

RESOLUTION NO. 2022-13

**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF
IONE, ACTING IN ITS CAPACITY AS THE LEGISLATIVE
BODY OF COMMUNITY FACILITIES DISTRICT NO. 2005-2
OF THE CITY OF IONE (EDGEBROOK AND CASTLE OAKS
PHASE II) AUTHORIZING THE LEVY OF SPECIAL TAXES
FOR FISCAL YEAR 2022-2023**

WHEREAS, on April 18, 2006, the City Council of the City of Ione (the “City Council”) adopted Resolution No. 1535 stating its intention to form Community Facilities District No. 2005-2 of the City of Ione (Edgebrook and Castle Oaks Phase II) (“Community Facilities District No. 2005-2”) and designate Improvement Area No. 1 (“Improvement Area No. 1”), Improvement Area No. 2 (“Improvement Area No. 2”) and Improvement Area No. 3 (“Improvement Area No. 3”) pursuant to the Mello-Roos Community Facilities Act of 1982, as amended, Section 53311 *et seq.* of the Government Code (the “Act”); and

WHEREAS, on April 18, 2006, the City Council also adopted Resolution No. 1536 stating its intention to incur bonded indebtedness in the maximum amount of \$5,300,000 within Improvement Area No. 1, \$6,300,000 within Improvement Area No. 2 and \$15,400,000 within Improvement Area No. 3 for the purpose of financing the costs of refunding the District’s share of the Community Facilities District No. 1989-1 (Country Club Estates–1) City of Ione, Amador County, California Series 1991 and the Community Facilities District No. 1989-2 (Country Club Estates–2) City of Ione, Amador County, California Series 1991, discharging the existing special tax liens on property within the District, and financing the costs of the facilities and incidental expenses described in Resolution No. 1536 to serve the area within Improvement Area No. 1, Improvement Area No. 2 and Improvement Area No. 3; and

WHEREAS, on June 6, 2006, the City Council adopted Resolution No. 1540 which established Community Facilities District No. 2005-2, designated Improvement Area No. 1, Improvement Area No. 2 and Improvement Area No. 3, authorized the levy of a special tax within

Improvement Area No. 1, Improvement Area No. 2 and Improvement Area No. 3 , and called an election within Improvement Area No. 1, Improvement Area No. 2 and Improvement Area No. 3 on the ballot proposition relating to levying a special tax combined and consolidated with the proposition relating to the incurring of bonded indebtedness; and

WHEREAS, on June 6, 2006, the City Council also adopted Resolution No. 1541 which determined the necessity to incur bonded indebtedness in the maximum amount of \$5,300,000 within Improvement Area No. 1, \$6,300,000 within Improvement Area No. 2 and \$15,400,000 within Improvement Area No. 3, and called an election within Improvement Area No. 1, Improvement Area No. 2 and Improvement Area No. 3 on the proposition of incurring bonded indebtedness combined and consolidated with the proposition of levying a special tax; and

WHEREAS, on June 6, 2006, an election was held within Improvement Area No. 1, Improvement Area No. 2 and Improvement Area No. 3, at which the qualified electors approved by more than a two-thirds vote the proposition of incurring bonded indebtedness of \$5,300,000 and the levying of a special tax within Improvement Area No. 1, incurring bonded indebtedness of \$6,300,000 and the levying of a special tax with Improvement Area No. 2, and incurring bonded indebtedness of \$15,400,000 and the levying of a special tax within Improvement Area No. 3, as set forth in Resolution Nos. 1540 and 1541; and

WHEREAS, on June 28, 2006, the City Council adopted Resolution No. 1542 which certified the results of the June 6, 2006 elections conducted by the City Clerk, which results showed that more than two-thirds of the votes cast were in favor of the proposition to incur bonded indebtedness and levy the special tax within Improvement Area No. 1, Improvement Area No. 2 and Improvement Area No. 3; and

WHEREAS, on June 29, 2006, the City Council adopted Ordinance No. 393 which authorized the levy of the special tax within Improvement Area No. 1, Improvement Area No. 2 and Improvement Area No. 3 (“Ordinance No. 393”); and

WHEREAS, subsequent to the adoption of Ordinance No. 393, the City Council determined that public necessity and convenience require that the rate and method of apportionment of the special tax for Improvement Area No. 3, described in Ordinance No. 393 and approved by the qualified electors within Improvement Area No. 3 at the special election held on June 6, 2006 pursuant to the Act, should be changed; and

WHEREAS, the City Council adopted Resolution No. 1707 on February 17, 2009 (the “Resolution of Consideration”) expressing its intention to consider the proposed amendments to the rate and method of apportionment of the special tax for Improvement Area No. 3 and calling a public hearing on April 7, 2009 as required by Section 53338 of the Act; and

WHEREAS, on April 7, 2009, the City Council held a public hearing regarding the amendments in accordance with the requirements of Section 53338 of the Act at the conclusion of which the City Council determined to submit the proposed amendments to a vote of the qualified electors of the District within Improvement Area No. 3 and adopted Resolution No. 1714 calling an election on Proposition A to approve the amendments; and

WHEREAS, the election on Proposition A was held on April 7, 2009, and thereafter on April 7, 2009, the City Clerk canvassed the election results and certified that more than two-thirds of the votes cast were in favor of Proposition A; and

WHEREAS, on April 7, 2009, the City Council adopted Resolution No. 1716 as a resolution of change in accordance with Section 53338(b) of the Act, which declared the amendments to the Improvement Area No. 3 Rate and Method to be effective (the “Resolution of Change”); and

WHEREAS, on April 21, 2009, the City Council adopted Ordinance No. 427 amending Ordinance No. 393 (as so amended, the “Ordinance”); and

WHEREAS, this City Council hereby certifies that the Ordinance authorizing the levy of the special taxes within Improvement Area No. 1, Improvement Area No. 2 and Improvement Area No. 3 has been duly adopted in accordance with law and is legal and valid; and

WHEREAS, the Ordinance provides that the City Council is further authorized to determine, by ordinance, or by resolution if permitted by then applicable law, on or before August 10 of each year, the specific special tax to be levied on each parcel of land within Improvement Area No. 1, Improvement Area No. 2 and Improvement Area No. 3; and

WHEREAS, it is now necessary and appropriate that this City Council levy and collect the special taxes for Fiscal Year 2022-2023 for the purpose specified in the Ordinance by the adoption of a resolution as specified by the Act and the Ordinance; and

WHEREAS, the special taxes being levied hereunder are at the same rate or at a lower rate than provided by the Ordinance;

NOW, THEREFORE, the City Council of the City of Ione acting in its capacity as the legislative body of Community Facilities District No. 2005-2 does resolve as follows:

Section 1. The above recitals are all true and correct.

Section 2. In accordance with Section 53340 of the Act and the Ordinance, there is hereby levied upon the parcels within Improvement Area No. 1 which are not otherwise exempt from taxation under the Act or the Ordinance the Special Taxes for Fiscal Year 2022-2023 (the “Improvement Area No. 1 Special Taxes”), at the tax rates set forth in Exhibit A-1 hereto, there is hereby levied upon parcels with Improvement Area No. 2 which are not otherwise exempt from taxation under the Act or the Ordinance the Special Tax for Fiscal Year 2022-2023 (the “Improvement Area No. 2 Special Taxes”), at the tax rate set forth in Exhibit A-2 hereto, and there is hereby levied upon parcels within Improvement Area No. 3 which are not otherwise exempt from taxation under the Act of Ordinance the Special Tax for Fiscal Year 2022-2023 (the “Improvement Area No. 3 Special Tax”), at the tax rates set forth in Exhibit A-3 hereto. The Special Tax

Consultant shall apportion the Improvement Area No. 1 Special Taxes, the Improvement Area No. 2 Special Taxes in the manner specified in Resolution No. 1540 and Improvement Area No. 3 Special Taxes as specified in Resolution No. 1716. Such rates do not exceed the maximum rates set forth in the Ordinance. After adoption of this Resolution, but no later than August 10, 2022, the Special Tax Consultant shall deliver the certified list of all parcels subject to the special tax levy including the amount of the Improvement Area No. 1 Special Taxes, the Improvement Area No. 2 Special Taxes and the Improvement Area No. 3 Special Taxes to be levied on each parcel in Fiscal Year 2022-2023 (the "Certified List") to the City Manager or his designee and thereafter, but in no event later than August 10, 2022, the City Manager or his designee shall cause a certified copy of this Resolution together with the Certified List, to be filed with the County Auditor-Controller, or in the case of direct billing, at a different time or in a different manner if necessary to meet its financial obligations. The Certified List may contain tax rates lower than those set forth in Exhibit A-1, Exhibit A-2 and Exhibit A-3 if the City Manager determines that such lower rates are adequate to accomplish the purposes of Improvement Area No. 1, Improvement Area No. 2 and Improvement Area No. 3 in Fiscal Year 2022-2023. The City Manager or his designee and the County Auditor-Controller are hereby authorized to make changes to the Certified List from time to time to correct any error in the amount of the levy on any parcel to make it consistent with the respective rate and method of apportionment for Improvement Area No. 1, Improvement Area No. 2 and Improvement Area No. 3 attached to the Ordinance, including, but not limited to, adding any parcels omitted from the Certified List or deleting any parcels included in the Certified List.

Section 3. Properties or entities of the state, federal or local governments shall be exempt from the above-referenced and approved Improvement Area No. 1 Special Taxes, Improvement Area No. 2 Special Taxes and Improvement Area No. 3 Special Taxes only to the extent set forth in the Ordinance and otherwise shall be subject to Improvement Area No. 1 Special Taxes, Improvement

Area No. 2 Special Taxes and Improvement Area No. 3 Special Taxes consistent with the provisions of Section 53317.3 of the Act in effect as of the date of adoption of this Resolution.

Section 4. All of the collections of Improvement Area No. 1 Special Taxes, Improvement Area No. 2 Special Taxes and Improvement Area No. 3 Special Taxes shall be used only as provided for in the Act and Resolution No. 1540 and Resolution No. 1716. The Improvement Area No. 1 Special Taxes, Improvement Area No. 2 Special Taxes and Improvement Area No. 3 Special Taxes shall be levied only so long as needed to accomplish the purposes described in Resolution No. 1540 and Resolution No. 1716.

Section 5. The Improvement Area No. 1 Special Taxes, Improvement Area No. 2 Special Taxes and Improvement Area No. 3 Special Taxes shall be collected in the same manner as ordinary ad valorem taxes are collected and shall be subject to the same penalties and the same procedure, sale and lien priority in cases of delinquency as provided for ad valorem taxes as such procedure may be modified by law or this City Council from time to time.

Section 6. As a cumulative remedy, if any amount levied as the Improvement Area No. 1 Special Taxes, Improvement Area No. 2 Special Taxes or Improvement Area No. 3 Special Taxes for payment of interest or principal on any outstanding bonds of Improvement Area No. 1 (“Improvement Area No. 1 Bonds”), Improvement Area No. 2 (“Improvement Area No. 2 Bonds”) or Improvement Area No. 3 (“Improvement Area No. 3 Bonds”), respectively, together with any penalties and other charges accruing under this Resolution, are not paid when due, the City Council may, not later than four years after the due date of the last installment of principal on the Improvement Area No. 1 Bonds, Improvement Area No. 2 Bonds or Improvement Area No. 3 Bonds, order that the same be collected by an action brought in the superior court to foreclose the lien of such Improvement Area No. 1 Special Taxes, Improvement Area No. 2 Special Taxes or Improvement Area No. 3 Special Taxes.

Section 7. The City Manager or his designee is hereby authorized to transmit a certified copy of this Resolution, together with the Certified List, to the County Assessor and/or the Treasurer-Tax Collector, together with other supporting documentation as may be required to place Improvement Area No. 1 Special Taxes, Improvement Area No. 2 Special Taxes or Improvement Area No. 3 Special Taxes on the secured property tax roll for Fiscal Year 2022-2023 and for the collection of the Improvement Area No. 1 Special Taxes, Improvement Area No. 2 Special Taxes or Improvement Area No. 3 Special Taxes in the manner of ad valorem property taxes and to perform all other acts which are required by the Act, the Ordinance, or by law or deemed necessary by the City Manager in order to accomplish the purpose of this Resolution, the Act or Improvement Area No. 1 Bond covenants Improvement Area No. 2 Bond covenants or Improvement Area No. 3 Bond covenants, or in the case of direct billing, the City Manager or his designer is hereby authorized to mail the applicable tax bill to the individual taxpayer.

Section 8. This Resolution shall be effective upon its adoption.

PASSED AND ADOPTED by the City Council of the City of Ione, California, this 2nd day of August 2022, by the following vote:

AYES:

NAYS:

ABSENT:

ABSTAIN:

MAYOR OF THE CITY OF IONE

ATTEST:

APPROVED AS TO FORM:

City Clerk

City Attorney

Exhibit A-1**Improvement Area No. 1 of
Community Facilities District No. 2005-2 of the City of Ione
(Edgebrook and Castle Oaks Phase II)**

<i>Assessor's Parcel Number</i>	<i>FY 2022-2023 Special Tax A</i>	<i>FY 2022-2023 Special Tax B</i>
005-351-001-000	\$1,865.96	\$446.68
005-351-002-000	1,865.96	446.68
005-351-003-000	693.48	446.68
005-351-004-000	0.00	446.68
005-351-005-000	1,865.96	446.68
005-351-006-000	943.80	446.68
005-351-007-000	1,865.96	446.68
005-352-001-000	1,865.96	446.68
005-352-002-000	1,865.96	446.68
005-352-003-000	1,865.96	446.68
005-352-004-000	0.00	446.68
005-352-005-000	1,865.96	446.68
005-352-006-000	0.00	446.68
005-353-001-000	0.00	446.68
005-353-002-000	1,865.96	446.68
005-353-003-000	0.00	446.68
005-353-004-000	1,865.96	446.68
005-353-005-000	0.00	446.68
005-353-006-000	1,865.96	446.68
005-354-001-000	1,865.96	446.68
005-354-002-000	1,865.96	446.68
005-354-003-000	1,865.96	446.68
005-354-004-000	0.00	446.68
005-354-005-000	649.34	446.68
005-354-006-000	0.00	446.68
005-354-007-000	649.34	446.68
005-354-008-000	1,865.96	446.68
005-354-009-000	0.00	446.68
005-354-010-000	1,865.96	446.68
005-354-011-000	0.00	446.68
005-354-012-000	1,865.96	446.68
005-354-013-000	1,865.96	446.68
005-354-014-000	1,865.96	446.68
005-354-015-000	1,865.96	446.68
005-354-016-000	0.00	446.68
005-354-017-000	0.00	446.68
005-354-018-000	0.00	446.68
005-354-019-000	1,865.96	446.68
005-354-020-000	0.00	446.68
005-354-021-000	1,865.96	446.68
005-354-022-000	0.00	446.68

Exhibit A-1

**Improvement Area No. 1 of
Community Facilities District No. 2005-2 of the City of Ione
(Edgebrook and Castle Oaks Phase II)**

<i>Assessor's Parcel Number</i>	<i>FY 2022-2023 Special Tax A</i>	<i>FY 2022-2023 Special Tax B</i>
005-354-023-000	0.00	446.68
005-354-024-000	1,865.96	446.68
005-354-025-000	1,865.96	446.68
005-354-026-000	1,865.96	446.68
005-354-027-000	1,865.96	446.68
005-354-028-000	1,865.96	446.68
005-355-001-000	369.74	446.68
005-355-002-000	1,865.96	446.68
005-355-003-000	0.00	446.68
005-355-004-000	0.00	446.68
005-355-005-000	1,865.96	446.68
005-355-006-000	1,865.96	446.68
005-355-007-000	1,865.96	446.68
005-355-008-000	1,865.96	446.68
005-355-009-000	1,865.96	446.68
005-355-011-000	1,865.96	446.68
005-355-012-000	1,865.96	446.68
005-355-013-000	1,865.96	446.68
005-355-014-000	1,865.96	446.68
005-355-015-000	1,865.96	446.68
005-355-016-000	1,865.96	446.68
005-355-017-000	1,865.96	446.68
005-355-018-000	1,865.96	446.68
005-355-019-000	0.00	446.68
005-355-020-000	0.00	446.68
005-355-021-000	1,865.96	446.68
005-355-022-000	1,865.96	446.68
005-355-023-000	1,865.96	446.68
005-355-024-000	1,865.96	446.68
005-355-025-000	1,865.96	446.68
005-355-026-000	1,865.96	446.68
005-355-028-000	1,865.96	446.68
005-355-029-000	1,865.96	446.68
005-355-030-000	0.00	446.68
005-355-031-000	1,865.96	446.68
005-355-032-000	1,865.96	446.68
005-355-033-000	0.00	446.68
005-355-034-000	1,865.96	446.68
005-355-035-000	1,865.96	446.68
005-355-036-000	1,865.96	446.68
005-430-001-000	2,241.30	446.68

Exhibit A-1

**Improvement Area No. 1 of
Community Facilities District No. 2005-2 of the City of Ione
(Edgebrook and Castle Oaks Phase II)**

<i>Assessor's Parcel Number</i>	<i>FY 2022-2023 Special Tax A</i>	<i>FY 2022-2023 Special Tax B</i>
005-430-002-000	0.00	446.68
005-430-003-000	2,241.30	446.68
005-430-004-000	2,241.30	446.68
005-430-005-000	0.00	446.68
005-430-006-000	2,241.30	446.68
005-430-007-000	0.00	446.68
005-430-008-000	0.00	446.68
005-430-009-000	2,241.30	446.68
005-430-010-000	2,241.30	446.68
005-430-011-000	0.00	446.68
005-430-012-000	2,241.30	446.68
005-430-013-000	2,241.30	446.68
005-430-014-000	2,241.30	446.68
005-430-015-000	2,241.30	446.68
005-430-016-000	2,241.30	446.68
005-430-017-000	2,241.30	446.68
005-430-018-000	2,241.30	446.68
005-430-019-000	2,241.30	446.68
005-430-020-000	2,241.30	446.68
005-430-021-000	2,241.30	446.68
005-430-022-000	2,241.30	446.68
005-430-023-000	0.00	446.68
005-440-001-000	2,241.30	446.68
005-440-002-000	2,241.30	446.68
005-440-003-000	0.00	446.68
005-440-004-000	2,241.30	446.68
005-440-005-000	0.00	446.68
005-440-006-000	2,241.30	446.68
005-440-007-000	0.00	446.68
005-440-008-000	2,241.30	446.68
005-440-009-000	0.00	446.68
005-440-010-000	2,241.30	446.68
005-440-011-000	2,241.30	446.68
005-440-012-000	2,241.30	446.68
005-440-013-000	2,241.30	446.68
005-440-014-000	2,241.30	446.68
005-440-015-000	2,241.30	446.68
005-440-016-000	0.00	446.68
005-440-017-000	2,241.30	446.68
005-440-018-000	2,241.30	446.68
005-440-019-000	2,241.30	446.68

Exhibit A-1

**Improvement Area No. 1 of
Community Facilities District No. 2005-2 of the City of Ione
(Edgebrook and Castle Oaks Phase II)**

<i>Assessor's Parcel Number</i>	<i>FY 2022-2023 Special Tax A</i>	<i>FY 2022-2023 Special Tax B</i>
005-440-020-000	0.00	446.68
005-440-021-000	0.00	446.68
005-440-022-000	2,241.30	446.68
005-440-023-000	2,241.30	446.68
005-440-024-000	2,241.30	446.68
005-440-025-000	2,241.30	446.68
005-440-026-000	0.00	446.68
005-440-027-000	0.00	446.68
005-440-028-000	2,241.30	446.68
005-440-029-000	2,241.30	446.68
005-440-030-000	0.00	446.68
005-440-031-000	1,237.94	446.68
005-440-032-000	2,241.30	446.68
005-440-033-000	2,241.30	446.68
005-440-034-000	2,241.30	446.68
005-440-035-000	2,241.30	446.68
005-440-036-000	0.00	446.68
Total FY 2022-2023 Special Tax Levy	\$197,198.78	\$62,535.20
Total Number of Parcels Taxed	101	140

Exhibit A-2

**Improvement Area No. 2 of
Community Facilities District No. 2005-2 of the City of Ione
(Edgebrook and Castle Oaks Phase II)**

<i>Assessor's Parcel Number</i>	<i>FY 2022-2023 Special Tax A</i>	<i>FY 2022-2023 Special Tax B</i>
005-450-013-000	\$0.00	\$446.68
005-450-014-000	0.00	446.68
005-450-015-000	0.00	446.68
005-450-016-000	0.00	446.68
005-450-017-000	0.00	446.68
005-450-018-000	0.00	446.68
005-450-019-000	0.00	446.68
005-450-020-000	0.00	446.68
005-450-021-000	0.00	446.68
005-450-022-000	0.00	446.68
005-450-023-000	0.00	446.68
005-450-024-000	0.00	446.68
005-450-025-000	0.00	446.68
005-450-026-000	0.00	446.68
005-450-027-000	0.00	446.68
005-450-028-000	0.00	446.68
005-450-029-000	0.00	446.68
005-450-030-000	0.00	446.68
005-450-031-000	0.00	446.68
005-450-032-000	0.00	446.68
005-450-033-000	0.00	446.68
005-450-034-000	0.00	446.68
005-450-035-000	0.00	446.68
005-450-036-000	0.00	446.68
005-450-037-000	0.00	446.68
005-450-038-000	0.00	446.68
005-450-039-000	0.00	446.68
005-450-040-000	0.00	446.68
005-450-041-000	0.00	446.68
005-450-042-000	0.00	446.68
005-450-043-000	0.00	446.68
005-450-044-000	0.00	446.68
005-450-045-000	0.00	446.68
005-450-046-000	0.00	446.68
005-450-047-000	0.00	446.68
005-450-048-000	0.00	446.68
005-450-049-000	0.00	446.68
005-450-050-000	0.00	446.68
005-450-051-000	0.00	446.68
005-460-001-000	0.00	446.68
005-460-002-000	0.00	446.68

Exhibit A-2

**Improvement Area No. 2 of
Community Facilities District No. 2005-2 of the City of Ione
(Edgebrook and Castle Oaks Phase II)**

<i>Assessor's Parcel Number</i>	<i>FY 2022-2023 Special Tax A</i>	<i>FY 2022-2023 Special Tax B</i>
005-460-003-000	0.00	446.68
005-460-005-000	0.00	446.68
005-460-006-000	0.00	446.68
005-460-007-000	0.00	446.68
005-460-008-000	0.00	446.68
005-460-009-000	0.00	446.68
005-460-010-000	0.00	446.68
005-460-011-000	0.00	446.68
005-460-012-000	0.00	446.68
005-460-014-000	0.00	446.68
005-460-015-000	0.00	446.68
005-460-016-000	0.00	446.68
005-460-021-000	0.00	446.68
005-460-022-000	0.00	446.68
005-460-023-000	0.00	446.68
005-460-024-000	0.00	446.68
005-460-025-000	0.00	446.68
005-460-026-000	0.00	446.68
005-460-027-000	0.00	446.68
005-460-028-000	0.00	446.68
005-460-029-000	0.00	446.68
005-460-030-000	0.00	446.68
005-460-031-000	0.00	446.68
005-460-032-000	0.00	446.68
005-460-033-000	0.00	446.68
005-460-034-000	0.00	446.68
005-460-035-000	0.00	446.68
005-460-036-000	0.00	446.68
005-471-002-000	0.00	446.68
005-471-003-000	0.00	446.68
005-471-004-000	0.00	446.68
005-471-005-000	0.00	446.68
005-471-006-000	0.00	446.68
005-471-007-000	0.00	446.68
005-471-008-000	0.00	446.68
005-471-009-000	0.00	446.68
005-471-010-000	0.00	446.68
005-471-011-000	0.00	446.68
005-471-012-000	0.00	446.68
005-471-013-000	0.00	446.68
005-471-014-000	0.00	446.68

Exhibit A-2

**Improvement Area No. 2 of
Community Facilities District No. 2005-2 of the City of Ione
(Edgebrook and Castle Oaks Phase II)**

<i>Assessor's Parcel Number</i>	<i>FY 2022-2023 Special Tax A</i>	<i>FY 2022-2023 Special Tax B</i>
005-471-015-000	0.00	446.68
005-471-016-000	0.00	446.68
005-471-017-000	0.00	446.68
005-471-018-000	0.00	446.68
005-471-019-000	0.00	446.68
005-471-020-000	0.00	446.68
005-471-021-000	0.00	446.68
005-471-022-000	0.00	446.68
005-471-023-000	0.00	446.68
005-472-001-000	0.00	446.68
005-472-002-000	0.00	446.68
005-472-004-000	0.00	446.68
005-472-005-000	0.00	446.68
005-472-006-000	0.00	446.68
005-472-007-000	0.00	446.68
005-472-008-000	0.00	446.68
005-472-009-000	0.00	446.68
005-472-010-000	0.00	446.68
005-472-011-000	0.00	446.68
005-472-012-000	0.00	446.68
005-472-013-000	0.00	446.68
005-472-014-000	0.00	446.68
005-472-015-000	0.00	446.68
005-472-016-000	0.00	446.68
005-472-017-000	0.00	446.68
005-473-001-000	0.00	446.68
005-473-002-000	0.00	446.68
005-473-003-000	0.00	446.68
005-473-004-000	0.00	446.68
005-473-005-000	0.00	446.68
005-473-006-000	0.00	446.68
005-473-007-000	0.00	446.68
005-473-008-000	0.00	446.68
005-473-009-000	0.00	446.68
005-473-010-000	0.00	446.68
005-473-011-000	0.00	446.68
005-473-012-000	0.00	446.68
005-473-013-000	0.00	446.68
005-473-014-000	0.00	446.68
005-473-015-000	0.00	446.68
005-473-016-000	0.00	446.68

Exhibit A-2

**Improvement Area No. 2 of
Community Facilities District No. 2005-2 of the City of Ione
(Edgebrook and Castle Oaks Phase II)**

<i>Assessor's Parcel Number</i>	<i>FY 2022-2023 Special Tax A</i>	<i>FY 2022-2023 Special Tax B</i>
005-473-017-000	0.00	446.68
005-473-018-000	0.00	446.68
005-473-019-000	0.00	446.68
005-473-020-000	0.00	446.68
005-473-021-000	0.00	446.68
005-474-001-000	0.00	446.68
005-474-002-000	0.00	446.68
005-474-003-000	0.00	446.68
005-474-004-000	0.00	446.68
005-474-005-000	0.00	446.68
005-474-006-000	0.00	446.68
005-474-007-000	0.00	446.68
005-474-008-000	0.00	446.68
005-474-009-000	0.00	446.68
005-474-010-000	0.00	446.68
005-474-011-000	0.00	446.68
005-474-012-000	0.00	446.68
005-474-013-000	0.00	446.68
005-474-014-000	0.00	446.68
005-474-015-000	0.00	446.68
005-474-016-000	0.00	446.68
005-474-017-000	0.00	446.68
005-474-018-000	0.00	446.68
005-474-019-000	0.00	446.68
005-474-020-000	0.00	446.68
005-474-021-000	0.00	446.68
005-474-022-000	0.00	446.68
005-474-023-000	0.00	446.68
005-474-024-000	0.00	446.68
005-474-025-000	0.00	446.68
005-474-026-000	0.00	446.68
Total FY 2022-2023 Special Tax Levy	\$0.00	\$68,788.72
Total Number of Parcels Taxed	0	154

Exhibit A-3**Improvement Area No. 3 of
Community Facilities District No. 2005-2 of the City of Ione
(Edgebrook and Castle Oaks Phase II)**

<i>Assessor's Parcel Number</i>	<i>FY 2022-2023 Special Tax A</i>	<i>FY 2022-2023 Special Tax B</i>
005-320-035-000	\$39,149.38	\$0.00
005-320-041-000	97,368.80	0.00
005-320-046-000	34,384.52	0.00
005-450-001-000	2,869.12	857.20
005-450-002-000	2,869.12	857.20
005-450-003-000	2,869.12	857.20
005-450-004-000	0.00	857.20
005-450-005-000	2,869.12	857.20
005-450-006-000	2,869.12	857.20
005-450-007-000	0.00	857.20
005-450-009-000	2,869.12	857.20
005-450-010-000	0.00	857.20
005-450-011-000	0.00	857.20
005-450-012-000	0.00	857.20
005-450-052-000	0.00	857.20
005-450-053-000	0.00	857.20
005-450-054-000	0.00	857.20
005-450-055-000	0.00	857.20
005-450-056-000	0.00	857.20
005-450-057-000	0.00	857.20
005-450-058-000	0.00	857.20
005-450-059-000	0.00	857.20
005-450-060-000	0.00	857.20
005-450-061-000	0.00	857.20
005-450-062-000	0.00	857.20
005-450-063-000	0.00	857.20
005-450-064-000	0.00	857.20
005-450-065-000	0.00	857.20
005-450-066-000	0.00	857.20
005-450-067-000	0.00	857.20
005-450-068-000	0.00	857.20
005-450-069-000	0.00	857.20
005-450-070-000	0.00	857.20
005-460-018-000	2,869.12	857.20
005-460-019-000	2,869.12	857.20
005-460-020-000	0.00	857.20
005-460-040-000	0.00	857.20
005-460-041-000	0.00	857.20
005-460-042-000	0.00	857.20
005-460-043-000	0.00	857.20
005-460-044-000	0.00	857.20

Exhibit A-3

**Improvement Area No. 3 of
Community Facilities District No. 2005-2 of the City of Ione
(Edgebrook and Castle Oaks Phase II)**

<i>Assessor's Parcel Number</i>	<i>FY 2022-2023 Special Tax A</i>	<i>FY 2022-2023 Special Tax B</i>
005-460-045-000	0.00	857.20
005-460-046-000	0.00	857.20
005-460-047-000	0.00	857.20
005-460-048-000	0.00	857.20
005-460-049-000	0.00	857.20
005-460-050-000	0.00	857.20
005-460-051-000	0.00	857.20
005-460-052-000	0.00	857.20
005-460-053-000	0.00	857.20
005-460-054-000	0.00	857.20
005-460-055-000	0.00	857.20
005-480-001-000	0.00	857.20
005-480-002-000	0.00	857.20
005-480-003-000	0.00	857.20
005-480-004-000	0.00	857.20
005-480-005-000	0.00	857.20
005-480-006-000	0.00	857.20
005-480-007-000	0.00	857.20
005-480-008-000	0.00	857.20
005-480-009-000	0.00	857.20
005-480-010-000	0.00	857.20
005-480-011-000	0.00	857.20
005-480-012-000	0.00	857.20
005-480-013-000	0.00	857.20
005-480-014-000	0.00	857.20
005-480-015-000	0.00	857.20
005-480-016-000	0.00	857.20
005-480-017-000	0.00	857.20
005-480-018-000	0.00	857.20
005-480-020-000	0.00	857.20
005-480-023-000	0.00	857.20
005-480-024-000	0.00	857.20
005-480-025-000	0.00	857.20
005-480-026-000	0.00	857.20
005-480-027-000	0.00	857.20
005-480-028-000	0.00	857.20
005-480-029-000	0.00	857.20
005-480-030-000	0.00	857.20
005-480-031-000	0.00	857.20
005-480-032-000	0.00	857.20
005-480-033-000	0.00	857.20

Exhibit A-3

**Improvement Area No. 3 of
Community Facilities District No. 2005-2 of the City of Ione
(Edgebrook and Castle Oaks Phase II)**

<i>Assessor's Parcel Number</i>	<i>FY 2022-2023 Special Tax A</i>	<i>FY 2022-2023 Special Tax B</i>
005-480-034-000	0.00	857.20
005-480-035-000	0.00	857.20
005-480-036-000	0.00	857.20
005-480-037-000	0.00	857.20
005-480-038-000	0.00	857.20
005-480-039-000	0.00	857.20
005-480-040-000	0.00	857.20
005-480-041-000	0.00	857.20
005-480-042-000	0.00	857.20
005-480-043-000	0.00	857.20
005-480-044-000	0.00	857.20
005-480-045-000	0.00	857.20
005-490-001-000	0.00	857.20
005-490-002-000	0.00	857.20
005-490-003-000	0.00	857.20
005-490-005-000	0.00	857.20
005-490-006-000	0.00	857.20
005-490-007-000	0.00	857.20
005-490-008-000	0.00	857.20
005-490-009-000	0.00	857.20
005-490-010-000	0.00	857.20
005-490-011-000	0.00	857.20
005-490-012-000	0.00	857.20
005-490-013-000	0.00	857.20
005-490-014-000	0.00	857.20
005-490-015-000	0.00	857.20
005-490-016-000	0.00	857.20
005-490-017-000	0.00	857.20
005-490-018-000	0.00	857.20
005-490-019-000	0.00	857.20
005-490-022-000	0.00	857.20
005-490-023-000	0.00	857.20
005-490-024-000	0.00	857.20
005-490-025-000	0.00	857.20
005-490-026-000	0.00	857.20
005-490-027-000	0.00	857.20
005-490-028-000	0.00	857.20
005-490-029-000	0.00	857.20
005-490-030-000	0.00	857.20
005-490-031-000	0.00	857.20
005-490-032-000	0.00	857.20

Exhibit A-3

**Improvement Area No. 3 of
Community Facilities District No. 2005-2 of the City of Ione
(Edgebrook and Castle Oaks Phase II)**

<i>Assessor's Parcel Number</i>	<i>FY 2022-2023 Special Tax A</i>	<i>FY 2022-2023 Special Tax B</i>
005-490-033-000	0.00	857.20
005-490-034-000	0.00	857.20
005-490-035-000	0.00	857.20
005-490-036-000	0.00	857.20
005-490-038-000	0.00	857.20
005-490-039-000	0.00	857.20
005-490-040-000	0.00	857.20
005-500-001-000	0.00	857.20
005-500-002-000	0.00	857.20
005-500-003-000	0.00	857.20
005-500-004-000	0.00	857.20
005-500-005-000	0.00	857.20
005-500-006-000	0.00	857.20
005-500-007-000	0.00	857.20
005-500-008-000	0.00	857.20
005-500-009-000	0.00	857.20
005-500-010-000	0.00	857.20
005-500-011-000	0.00	857.20
005-500-012-000	0.00	857.20
005-500-013-000	0.00	857.20
005-500-014-000	0.00	857.20
005-500-015-000	0.00	857.20
005-500-016-000	0.00	857.20
005-500-017-000	0.00	857.20
005-500-018-000	0.00	857.20
005-500-019-000	0.00	857.20
005-500-020-000	0.00	857.20
005-500-021-000	0.00	857.20
005-500-022-000	0.00	857.20
005-500-023-000	0.00	857.20
005-500-024-000	0.00	857.20
005-500-025-000	0.00	857.20
005-500-026-000	0.00	857.20
005-500-027-000	0.00	857.20
005-500-028-000	0.00	857.20
005-500-029-000	0.00	857.20
005-500-030-000	0.00	857.20
005-500-031-000	0.00	857.20
005-510-001-000	0.00	857.20
005-510-002-000	0.00	857.20
005-510-003-000	0.00	857.20

Exhibit A-3

**Improvement Area No. 3 of
Community Facilities District No. 2005-2 of the City of Ione
(Edgebrook and Castle Oaks Phase II)**

<i>Assessor's Parcel Number</i>	<i>FY 2022-2023 Special Tax A</i>	<i>FY 2022-2023 Special Tax B</i>
005-510-004-000	0.00	857.20
005-510-005-000	0.00	857.20
005-510-006-000	0.00	857.20
005-510-007-000	0.00	857.20
005-510-008-000	0.00	857.20
005-510-009-000	0.00	857.20
005-510-010-000	0.00	857.20
005-510-011-000	0.00	857.20
005-510-012-000	0.00	857.20
005-510-013-000	0.00	857.20
005-510-014-000	0.00	857.20
005-510-015-000	0.00	857.20
005-510-016-000	0.00	857.20
005-510-017-000	0.00	857.20
005-510-018-000	0.00	857.20
005-510-019-000	0.00	857.20
005-510-020-000	0.00	857.20
005-510-021-000	0.00	857.20
005-510-022-000	0.00	857.20
005-510-023-000	0.00	857.20
005-510-024-000	0.00	857.20
005-520-001-000	0.00	857.20
005-520-002-000	0.00	857.20
005-520-003-000	0.00	857.20
005-520-004-000	0.00	857.20
005-520-005-000	0.00	857.20
005-520-006-000	0.00	857.20
005-520-007-000	0.00	857.20
005-520-008-000	0.00	857.20
005-520-009-000	0.00	857.20
005-520-010-000	0.00	857.20
005-520-011-000	0.00	857.20
005-520-012-000	0.00	857.20
005-520-013-000	0.00	857.20
005-520-014-000	0.00	857.20
005-520-015-000	0.00	857.20
005-520-016-000	0.00	857.20
005-520-017-000	0.00	857.20
005-520-018-000	0.00	857.20
005-520-019-000	0.00	857.20
005-520-020-000	0.00	857.20

Exhibit A-3

**Improvement Area No. 3 of
Community Facilities District No. 2005-2 of the City of Ione
(Edgebrook and Castle Oaks Phase II)**

<i>Assessor's Parcel Number</i>	<i>FY 2022-2023 Special Tax A</i>	<i>FY 2022-2023 Special Tax B</i>
005-520-021-000	0.00	857.20
005-520-022-000	0.00	857.20
005-520-023-000	0.00	857.20
005-520-024-000	0.00	857.20
005-520-025-000	0.00	857.20
005-520-026-000	0.00	857.20
005-520-027-000	0.00	857.20
005-520-028-000	0.00	857.20
005-520-029-000	0.00	857.20
005-520-030-000	0.00	857.20
005-520-031-000	0.00	857.20
005-520-032-000	0.00	857.20
005-520-033-000	0.00	857.20
005-520-034-000	0.00	857.20
005-520-035-000	0.00	857.20
005-520-036-000	0.00	857.20
005-520-037-000	0.00	857.20
005-520-038-000	0.00	857.20
005-520-039-000	0.00	857.20
005-520-040-000	0.00	857.20
005-520-041-000	0.00	857.20
005-520-042-000	0.00	857.20
005-530-001-000	0.00	857.20
005-530-002-000	0.00	857.20
005-530-003-000	0.00	857.20
005-530-004-000	0.00	857.20
005-530-005-000	0.00	857.20
005-530-006-000	0.00	857.20
005-530-007-000	0.00	857.20
005-530-008-000	0.00	857.20
005-530-009-000	0.00	857.20
005-530-017-000	0.00	857.20
005-530-018-000	0.00	857.20
005-530-019-000	0.00	857.20
005-530-020-000	0.00	857.20
005-530-021-000	0.00	857.20
005-530-022-000	0.00	857.20
005-530-023-000	0.00	857.20
005-530-024-000	0.00	857.20
005-530-025-000	0.00	857.20
005-530-026-000	0.00	857.20

Exhibit A-3

**Improvement Area No. 3 of
Community Facilities District No. 2005-2 of the City of Ione
(Edgebrook and Castle Oaks Phase II)**

<i>Assessor's Parcel Number</i>	<i>FY 2022-2023 Special Tax A</i>	<i>FY 2022-2023 Special Tax B</i>
005-530-027-000	0.00	857.20
005-530-028-000	0.00	857.20
005-530-029-000	0.00	857.20
005-530-030-000	0.00	857.20
005-530-031-000	0.00	857.20
005-530-032-000	0.00	857.20
005-530-033-000	0.00	857.20
005-530-034-000	0.00	857.20
005-530-035-000	0.00	857.20
005-530-036-000	0.00	857.20
005-530-037-000	0.00	857.20
005-530-038-000	0.00	857.20
005-530-039-000	0.00	857.20
005-530-040-000	0.00	857.20
005-530-041-000	0.00	857.20
005-530-042-000	0.00	857.20
005-530-043-000	0.00	857.20
005-530-044-000	0.00	857.20
005-530-045-000	0.00	857.20
005-530-046-000	0.00	857.20
005-530-047-000	0.00	857.20
005-530-048-000	0.00	857.20
005-530-049-000	0.00	857.20
005-530-050-000	0.00	857.20
005-530-051-000	0.00	857.20
005-540-001-000	0.00	857.20
005-540-002-000	0.00	857.20
005-540-003-000	0.00	857.20
005-540-004-000	0.00	857.20
005-540-005-000	0.00	857.20
005-540-006-000	0.00	857.20
005-540-026-000	0.00	857.20
005-540-027-000	0.00	857.20
005-540-028-000	0.00	857.20
005-540-049-000	0.00	857.20
005-540-050-000	0.00	857.20
005-540-051-000	0.00	857.20
005-540-052-000	0.00	857.20
005-540-053-000	0.00	857.20
005-540-054-000	0.00	857.20
005-540-055-000	0.00	857.20

Exhibit A-3

**Improvement Area No. 3 of
Community Facilities District No. 2005-2 of the City of Ione
(Edgebrook and Castle Oaks Phase II)**

<i>Assessor's Parcel Number</i>	<i>FY 2022-2023 Special Tax A</i>	<i>FY 2022-2023 Special Tax B</i>
005-540-056-000	0.00	857.20
005-540-057-000	0.00	857.20
005-540-058-000	0.00	857.20
005-540-059-000	0.00	857.20
Total FY 2022-2023 Special Tax Levy	\$193,855.66	\$246,873.60
Total Number of Parcels Taxed	11	288

RESOLUTION NO. 2022-14

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF IONE, ACTING IN ITS CAPACITY AS THE LEGISLATIVE BODY OF COMMUNITY FACILITIES DISTRICT NO. 2006-1 OF THE CITY OF IONE (WILDFLOWER-PUBLIC SAFETY SERVICES) AUTHORIZING THE LEVY OF SPECIAL TAXES FOR FISCAL YEAR 2022-2023

WHEREAS, on January 3, 2006, the City Council of the City of Ione (the “City Council”) adopted Resolution No. 1492 stating its intention to form Community Facilities District No. 2006-1 of the City of Ione (Wildflower-Public Safety Services) (“Community Facilities District No. 2006-1” or “District”) pursuant to the Mello-Roos Community Facilities Act of 1982, as amended, Section 53311 *et seq.* of the Government Code (the “Act”); and

WHEREAS, on February 7, 2006, the City Council adopted Resolution No. 1522 which established Community Facilities District No. 2006-1 to pay for police and fire protection and rescue services, authorized the levy of a special tax within Community Facilities District No. 2006-1, called an election within Community Facilities District No. 2006-1 on the ballot proposition relating to levying a special tax and establishing an appropriations limit, and approved and authorized certain actions related to the levy of the special tax and the election; and

WHEREAS, on February 7, 2006, an election was held within Community Facilities District No. 2006-1 at which the qualified electors approved by more than a two-thirds vote the proposition of levying a special tax within Community Facilities District No. 2006-1 as set forth in Resolution No. 1522; and

WHEREAS, on February 7, 2006, the City Council adopted Resolution No. 1523 which certified the results of the February 7, 2006 election conducted by the City Clerk, which results showed that more than two-thirds of the votes cast were in favor of the proposition to levy the special tax within Community Facilities Districts No. 2006-1; and

WHEREAS, on February 21, 2006, the City Council adopted Ordinance No. 392 which authorized the levy of the special tax within Community Facilities District No. 2006-1 (the “Ordinance”); and

WHEREAS, this City Council hereby certifies that the Ordinance authorizing the levy of the special taxes within Community Facilities District No. 2006-1 has been duly adopted in accordance with law and is legal and valid; and

WHEREAS, the Ordinance provides that the City Council is further authorized to determine, by ordinance, or by resolution if permitted by then applicable law, on or before August 10 of each year, the specific special tax to be levied on each parcel of land in Community Facilities District No. 2006-1; and

WHEREAS, it is now necessary and appropriate that this City Council levy and collect the special taxes for Fiscal Year 2022-2023 for the purpose specified in the Ordinance, by the adoption of a resolution as specified by the Act and the Ordinance; and

WHEREAS, the special taxes being levied hereunder are at the same rate or at a lower rate than provided by the Ordinance;

NOW, THEREFORE, the City Council of the City of Ione acting in its capacity as the legislative body of Community Facilities District No. 2006-1 does resolve as follows:

Section 1. The above recitals are all true and correct.

Section 2. In accordance with Section 53340 of the Act and the Ordinance, there is hereby levied upon the parcels within the Community Facilities District No. 2006-1 which are not otherwise exempt from taxation under the Act or the Ordinance the special taxes for Fiscal Year 2022-2023 (the “Special Taxes”), at the tax rates set forth in Exhibit A hereto. The Special Tax Consultant shall apportion the Special Taxes in the manner specified in Resolution No. 1522. Such rates do not exceed the maximum rates set forth in the Ordinance. After adoption of this Resolution, but no later than August 10, 2022, the Special Tax Consultant shall deliver the certified list of all parcels subject to the

special tax levy including the amount of the Special Taxes to be levied on each parcel in Fiscal Year 2022-2023 (the “Certified List”) to the City Manager or her designee and thereafter, but in no event later than August 10, 2022, the City Manager or her designee shall cause a certified copy of this Resolution together with the Certified List, to be filed with the County Auditor-Controller. The Certified List may contain tax rates lower than those set forth in Exhibit A if the City Manager determines that such lower rates are adequate to accomplish the purposes of Community Facilities District No. 2006-1 in Fiscal Year 2022-2023. The City Manager or her designee and the County Auditor-Controller are hereby authorized to make changes to the Certified List from time to time to correct any error in the amount of the levy on any parcel to make it consistent with the respective rate and method of apportionment for Community Facilities District No. 2006-1 attached to the Ordinance, including, but not limited to, adding any parcels omitted from the Certified List or deleting any parcels included in the Certified List.

Section 3. Properties or entities of the state, federal or local governments shall be exempt from the above-referenced and approved Special Taxes only to the extent set forth in the Ordinance and otherwise shall be subject to the Special Taxes consistent with the provisions of Section 53317.3 of the Act in effect as of the date of adoption of this Resolution.

Section 4. All of the collections of the Special Taxes shall be used only as provided for in the Act and Resolution No. 1522. The Special Taxes shall be levied only so long as needed to accomplish the purposes described in Resolution No. 1522.

Section 5. The Special Taxes shall be collected in the same manner as ordinary ad valorem taxes are collected and shall be subject to the same penalties and the same procedure, sale and lien priority in cases of delinquency as provided for ad valorem taxes as such procedure may be modified by law or this City Council from time to time.

Section 6. As a cumulative remedy, if any amount levied as the Special Taxes, together with any penalties and other charges accruing under this Resolution, are not paid when due, the City Council

may, not later than four years after the due date of the last installment order that the same be collected by an action brought in the superior court to foreclose the lien of such Special Taxes.

Section 7. The City Manager or her designee is hereby authorized to transmit a certified copy of this Resolution, together with the Certified List, to the County Assessor and/or the Treasurer-Tax Collector, together with other supporting documentation as may be required to place the Special Taxes on the secured property tax roll for Fiscal Year 2022-2023 and for the collection of the Special Taxes in the manner of ad valorem property taxes and to perform all other acts which are required by the Act, the Ordinance, or by law or deemed necessary by the City Manager in order to accomplish the purpose of this Resolution or the Act.

Section 8. This Resolution shall be effective upon its adoption.

PASSED AND ADOPTED by the City Council of the City of Ione, California, this 2nd day of August 2022, by the following vote:

AYES:

NAYS:

ABSENT:

ABSTAIN:

MAYOR OF THE CITY OF IONE

ATTEST:

APPROVED AS TO FORM:

City Clerk

City Attorney

Exhibit A

**Community Facilities District No. 2006-1 of the City of Ione
(Wildflower-Public Safety Services)**

<i>Assessor's Parcel Number</i>	<i>FY 2022-2023 Special Tax</i>
011-340-001-000	\$435.98
011-340-002-000	435.98
011-340-003-000	435.98
011-340-004-000	435.98
011-340-005-000	435.98
011-340-006-000	435.98
011-340-007-000	435.98
011-340-008-000	435.98
011-340-009-000	435.98
011-340-010-000	435.98
011-340-011-000	435.98
011-340-012-000	435.98
011-340-013-000	435.98
011-340-014-000	435.98
011-340-015-000	435.98
011-340-016-000	435.98
011-340-017-000	435.98
011-340-018-000	435.98
011-340-019-000	435.98
011-340-020-000	435.98
011-340-021-000	435.98
011-340-022-000	435.98
011-340-023-000	435.98
011-340-024-000	435.98
011-340-025-000	435.98
011-340-026-000	435.98
011-340-027-000	435.98
011-340-028-000	435.98
011-340-029-000	435.98
011-340-030-000	435.98
011-340-031-000	435.98
011-340-032-000	435.98
011-340-033-000	435.98
011-340-034-000	435.98
011-340-035-000	435.98
011-340-036-000	435.98
011-340-037-000	435.98
011-340-038-000	435.98
011-340-039-000	435.98
011-340-040-000	435.98
011-340-041-000	435.98
011-340-042-000	435.98

Exhibit A

**Community Facilities District No. 2006-1 of the City of Ione
(Wildflower-Public Safety Services)**

<i>Assessor's Parcel Number</i>	<i>FY 2022-2023 Special Tax</i>
011-340-043-000	435.98
011-340-044-000	435.98
011-340-045-000	435.98
011-340-046-000	435.98
011-340-047-000	435.98
011-350-001-000	435.98
011-350-002-000	435.98
011-350-003-000	435.98
011-350-004-000	435.98
011-350-005-000	435.98
011-350-006-000	435.98
011-350-007-000	435.98
011-350-008-000	435.98
011-350-009-000	435.98
011-350-010-000	435.98
011-350-011-000	435.98
011-350-012-000	435.98
011-350-013-000	435.98
011-350-014-000	435.98
011-350-015-000	435.98
011-350-016-000	435.98
011-350-017-000	435.98
011-350-018-000	435.98
011-350-019-000	435.98
011-350-020-000	435.98
011-350-021-000	435.98
011-350-022-000	435.98
011-350-023-000	435.98
011-350-024-000	435.98
011-350-025-000	435.98
011-350-026-000	435.98
011-350-027-000	435.98
011-350-028-000	435.98
011-350-029-000	435.98
011-350-030-000	435.98
011-350-031-000	435.98
011-350-032-000	435.98
011-350-033-000	435.98
011-350-034-000	435.98
011-350-035-000	435.98
011-350-036-000	435.98
011-350-037-000	435.98

Exhibit A

**Community Facilities District No. 2006-1 of the City of Ione
(Wildflower-Public Safety Services)**

<i>Assessor's Parcel Number</i>	<i>FY 2022-2023 Special Tax</i>
011-350-038-000	435.98
011-350-039-000	435.98
011-350-040-000	435.98
011-370-007-000	435.98
011-370-008-000	435.98
011-370-009-000	435.98
011-370-010-000	435.98
011-370-011-000	435.98
011-370-012-000	435.98
011-370-013-000	435.98
011-370-014-000	435.98
011-370-015-000	435.98
011-370-016-000	435.98
011-370-017-000	435.98
011-370-018-000	435.98
011-370-019-000	435.98
011-370-020-000	435.98
011-370-021-000	435.98
011-370-022-000	435.98
011-370-023-000	435.98
011-370-024-000	435.98
011-370-025-000	435.98
011-370-026-000	435.98
011-370-027-000	435.98
011-370-028-000	435.98
011-370-029-000	435.98
011-370-030-000	435.98
011-370-031-000	435.98
011-370-093-000	435.98
011-370-094-000	435.98
011-370-034-000	435.98
011-370-035-000	435.98
011-370-036-000	435.98
011-370-037-000	435.98
011-370-038-000	435.98
011-370-039-000	435.98
011-370-040-000	435.98
011-370-041-000	435.98
011-370-042-000	435.98
011-370-043-000	435.98
011-370-044-000	435.98
011-370-045-000	435.98

Exhibit A

**Community Facilities District No. 2006-1 of the City of Ione
(Wildflower-Public Safety Services)**

<i>Assessor's Parcel Number</i>	<i>FY 2022-2023 Special Tax</i>
011-370-046-000	435.98
011-370-047-000	435.98
011-370-048-000	435.98
011-370-049-000	435.98
011-370-050-000	435.98
011-370-051-000	435.98
011-370-052-000	435.98
011-370-053-000	435.98
011-370-054-000	435.98
011-370-055-000	435.98
011-370-056-000	435.98
011-370-057-000	435.98
011-370-058-000	435.98
011-370-059-000	435.98
011-370-060-000	435.98
011-370-061-000	435.98
011-370-062-000	435.98
011-370-063-000	435.98
011-370-064-000	435.98
011-370-065-000	435.98
011-370-066-000	435.98
011-370-067-000	435.98
011-370-068-000	435.98
011-370-069-000	435.98
011-370-070-000	435.98
011-370-071-000	435.98
011-370-072-000	435.98
011-370-073-000	435.98
011-370-074-000	435.98
011-370-075-000	435.98
011-370-076-000	435.98
011-370-077-000	435.98
011-370-078-000	435.98
011-370-079-000	435.98
011-370-080-000	435.98
011-370-081-000	435.98
011-370-082-000	435.98
011-370-083-000	435.98
011-370-084-000	435.98
011-370-085-000	435.98
011-370-086-000	435.98
011-370-087-000	435.98

Exhibit A

**Community Facilities District No. 2006-1 of the City of Ione
(Wildflower-Public Safety Services)**

<i>Assessor's Parcel Number</i>	<i>FY 2022-2023 Special Tax</i>
011-370-088-000	435.98
011-370-089-000	435.98
Total FY 2022-2023 Special Tax Levy	\$74,116.60
Total Number of Parcels	170

RESOLUTION NO. 2022-15

**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF
IONE, ACTING IN ITS CAPACITY AS THE LEGISLATIVE
BODY OF COMMUNITY FACILITIES DISTRICT NO. 2009-3
OF THE CITY OF IONE (CASTLE OAKS PHASE II)
AUTHORIZING THE LEVY OF SPECIAL TAXES FOR
FISCAL YEAR 2022-2023**

WHEREAS, on February 17, 2009, the City Council of the City of Ione (the “City Council”) adopted Resolution No. 1706 stating its intention to form Community Facilities District No. 2009-3 of the City of Ione (Castle Oaks Phase II) (“Community Facilities District No. 2009-3” or “District”) pursuant to the Mello-Roos Community Facilities Act of 1982, as amended, Section 53311 *et seq.* of the Government Code (the “Act”); and

WHEREAS, on April 7, 2009, the City Council adopted Resolution No. 1715 which established Community Facilities District No. 2009-3 to pay for police protection services, fire protection and rescue services and the maintenance of parks, parkways, open space, landscape and lighting services, including maintaining an operating reserve in connection therewith, authorized the levy of a special tax within Community Facilities District No. 2009-3, called an election within Community Facilities District No. 2009-3 on the ballot proposition relating to levying a special tax and establishing an appropriations limit, and approved and authorized certain actions related to the levy of the special tax and the election; and

WHEREAS, on April 7, 2009, an election was held within Community Facilities District No. 2009-3 at which the qualified electors approved by more than a two-thirds vote the proposition of levying a special tax within Community Facilities District No. 2009-3 as set forth in Resolution No. 1715; and

WHEREAS, on April 7, 2009, the City Council adopted Resolution No. 1717 which certified the results of the April 7, 2009 election conducted by the City Clerk, which results showed that more

than two-thirds of the votes cast were in favor of the proposition to levy the special tax within Community Facilities Districts No. 2009-3; and

WHEREAS, on April 21, 2009, the City Council adopted Ordinance No. 428 which authorized the levy of the special tax within Community Facilities District No. 2009-3 (the “Ordinance”); and

WHEREAS, this City Council hereby certifies that the Ordinance authorizing the levy of the special taxes within Community Facilities District No. 2009-3 has been duly adopted in accordance with law and is legal and valid; and

WHEREAS, the Ordinance provides that the City Council is further authorized to determine, by ordinance, or by resolution if permitted by then applicable law, on or before August 10 of each year, the specific special tax to be levied on each parcel of land in Community Facilities District No. 2009-3; and

WHEREAS it is now necessary and appropriate that this City Council levy and collect the special taxes for Fiscal Year 2022-2023 for the purpose specified in the Ordinance, by the adoption of a resolution as specified by the Act and the Ordinance; and

WHEREAS, the special taxes being levied hereunder are at the same rate or at a lower rate than provided by the Ordinance;

NOW, THEREFORE, the City Council of the City of Ione acting in its capacity as the legislative body of Community Facilities District No. 2009-3 does resolve as follows:

Section 1. The above recitals are all true and correct.

Section 2. In accordance with Section 53340 of the Act and the Ordinance, there is hereby levied upon the parcels within the Community Facilities District No. 2009-3 which are not otherwise exempt from taxation under the Act or the Ordinance the special taxes for Fiscal Year 2022-2023 (the “Special Taxes”), at the tax rates set forth in Exhibit A hereto. The Special Tax Consultant shall apportion the Special Taxes in the manner specified in Resolution No. 1715. Such rates do not

exceed the maximum rates set forth in the Ordinance. After adoption of this Resolution, but no later than August 10, 2022, the Special Tax Consultant shall deliver the certified list of all parcels subject to the special tax levy including the amount of the Special Taxes to be levied on each parcel in Fiscal Year 2022-2023 (the “Certified List”) to the City Manager or her designee and thereafter, but in no event later than August 10, 2022, the City Manager or her designee shall cause a certified copy of this Resolution together with the Certified List, to be filed with the County Auditor-Controller. The Certified List may contain tax rates lower than those set forth in Exhibit A if the City Manager determines that such lower rates are adequate to accomplish the purposes of Community Facilities District No. 2009-3 in Fiscal Year 2022-2023. The City Manager or her designee and the County Auditor-Controller are hereby authorized to make changes to the Certified List from time to time to correct any error in the amount of the levy on any parcel to make it consistent with the respective rate and method of apportionment for Community Facilities District No. 2009-3 attached to the Ordinance, including, but not limited to, adding any parcels omitted from the Certified List or deleting any parcels included in the Certified List.

Section 3. Properties or entities of the state, federal or local governments shall be exempt from the above-referenced and approved Special Taxes only to the extent set forth in the Ordinance and otherwise shall be subject to the Special Taxes consistent with the provisions of Section 53317.3 of the Act in effect as of the date of adoption of this Resolution.

Section 4. All of the collections of the Special Taxes shall be used only as provided for in the Act and Resolution No. 1715. The Special Taxes shall be levied only so long as needed to accomplish the purposes described in Resolution No. 1715.

Section 5. The Special Taxes shall be collected in the same manner as ordinary ad valorem taxes are collected and shall be subject to the same penalties and the same procedure, sale and lien priority in cases of delinquency as provided for ad valorem taxes as such procedure may be modified by law or this City Council from time to time.

Section 6. As a cumulative remedy, if any amount levied as the Special Taxes, together with any penalties and other charges accruing under this Resolution, are not paid when due, the City Council may, not later than four years after the due date of the last installment order that the same be collected by an action brought in the superior court to foreclose the lien of such Special Taxes.

Section 7. The City Manager or her designee is hereby authorized to transmit a certified copy of this Resolution, together with the Certified List, to the County Assessor and/or the Treasurer-Tax Collector, together with other supporting documentation as may be required to place the Special Taxes on the secured property tax roll for Fiscal Year 2022-2023 and for the collection of the Special Taxes in the manner of ad valorem property taxes and to perform all other acts which are required by the Act, the Ordinance, or by law or deemed necessary by the City Manager in order to accomplish the purpose of this Resolution or the Act.

Section 8. This Resolution shall be effective upon its adoption.

PASSED AND ADOPTED by the City Council of the City of Ione, California, this 2nd day of August 2022, by the following vote:

AYES:

NAYS:

ABSENT:

ABSTAIN:

MAYOR OF THE CITY OF IONE

ATTEST:

APPROVED AS TO FORM:

City Clerk

City Attorney

Exhibit A

**Community Facilities District No. 2009-3 of the City of Ione
(Castle Oaks Phase II)**

<i>Assessor's Parcel Number</i>	<i>FY 2022-2023 Special Tax</i>
005-450-013-000	\$410.52
005-450-014-000	410.52
005-450-015-000	410.52
005-450-017-000	410.52
005-450-018-000	410.52
005-450-019-000	410.52
005-450-020-000	410.52
005-450-021-000	410.52
005-450-022-000	410.52
005-450-023-000	410.52
005-450-024-000	410.52
005-450-025-000	410.52
005-450-026-000	410.52
005-450-030-000	410.52
005-450-031-000	410.52
005-450-032-000	410.52
005-450-033-000	410.52
005-450-034-000	410.52
005-450-035-000	410.52
005-450-036-000	410.52
005-450-037-000	410.52
005-450-038-000	410.52
005-450-039-000	410.52
005-450-040-000	410.52
005-450-041-000	410.52
005-450-042-000	410.52
005-450-043-000	410.52
005-450-044-000	410.52
005-450-045-000	410.52
005-450-046-000	410.52
005-450-047-000	410.52
005-450-048-000	410.52
005-450-049-000	410.52
005-450-050-000	410.52
005-450-051-000	410.52
005-460-001-000	410.52
005-460-002-000	410.52
005-460-003-000	410.52
005-460-005-000	410.52
005-460-006-000	410.52
005-460-007-000	410.52
005-460-008-000	410.52
005-460-009-000	410.52
005-460-010-000	410.52

Exhibit A

**Community Facilities District No. 2009-3 of the City of Ione
(Castle Oaks Phase II)**

<i>Assessor's Parcel Number</i>	<i>FY 2022-2023 Special Tax</i>
005-460-011-000	410.52
005-460-012-000	410.52
005-460-014-000	410.52
005-460-015-000	410.52
005-460-016-000	410.52
005-460-021-000	410.52
005-460-022-000	410.52
005-460-023-000	410.52
005-460-024-000	410.52
005-460-025-000	410.52
005-460-026-000	410.52
005-460-027-000	410.52
005-460-028-000	410.52
005-460-029-000	410.52
005-460-030-000	410.52
005-460-031-000	410.52
005-460-032-000	410.52
005-460-033-000	410.52
005-460-034-000	410.52
005-460-035-000	410.52
005-460-036-000	410.52
005-471-002-000	410.52
005-471-003-000	410.52
005-471-007-000	410.52
005-471-008-000	410.52
005-471-009-000	410.52
005-471-010-000	410.52
005-471-011-000	410.52
005-471-012-000	410.52
005-471-013-000	410.52
005-471-014-000	410.52
005-471-015-000	410.52
005-471-016-000	410.52
005-471-017-000	410.52
005-471-018-000	410.52
005-471-019-000	410.52
005-471-020-000	410.52
005-471-021-000	410.52
005-471-022-000	410.52
005-471-023-000	410.52
005-472-001-000	410.52
005-472-002-000	410.52
005-472-004-000	410.52
005-472-005-000	410.52

Exhibit A

**Community Facilities District No. 2009-3 of the City of Ione
(Castle Oaks Phase II)**

<i>Assessor's Parcel Number</i>	<i>FY 2022-2023 Special Tax</i>
005-472-006-000	410.52
005-472-007-000	410.52
005-472-008-000	410.52
005-472-009-000	410.52
005-472-010-000	410.52
005-472-011-000	410.52
005-472-012-000	410.52
005-472-016-000	410.52
005-472-017-000	410.52
005-473-001-000	410.52
005-473-002-000	410.52
005-473-003-000	410.52
005-473-004-000	410.52
005-473-005-000	410.52
005-473-006-000	410.52
005-473-007-000	410.52
005-473-008-000	410.52
005-473-009-000	410.52
005-473-010-000	410.52
005-473-011-000	410.52
005-473-012-000	410.52
005-473-013-000	410.52
005-473-014-000	410.52
005-473-015-000	410.52
005-473-016-000	410.52
005-473-017-000	410.52
005-473-018-000	410.52
005-473-020-000	410.52
005-473-021-000	410.52
005-474-001-000	410.52
005-474-002-000	410.52
005-474-003-000	410.52
005-474-004-000	410.52
005-474-005-000	410.52
005-474-006-000	410.52
005-474-007-000	410.52
005-474-008-000	410.52
005-474-009-000	410.52
005-474-010-000	410.52
005-474-011-000	410.52
005-474-012-000	410.52
005-474-013-000	410.52
005-474-014-000	410.52
005-474-015-000	410.52

Exhibit A

**Community Facilities District No. 2009-3 of the City of Ione
(Castle Oaks Phase II)**

<i>Assessor's Parcel Number</i>	<i>FY 2022-2023 Special Tax</i>
005-474-016-000	410.52
005-474-017-000	410.52
005-474-018-000	410.52
005-474-019-000	410.52
005-474-020-000	410.52
005-474-021-000	410.52
005-474-022-000	410.52
005-474-023-000	410.52
005-474-024-000	410.52
005-474-025-000	410.52
005-474-026-000	410.52
Total FY 2022-2023 Special Tax Levy	\$58,704.36
Total Number of Parcels	143

COMMUNITY FACILITIES DISTRICTS OF THE CITY OF IONE

SUMMARY OF SPECIAL TAXES FOR SERVICES

FISCAL YEAR 2022-2023 SERVICES BREAKDOWN

Description of CFD Related Items - Services	Units	2022/23	2022/23	2022/23	<u>Services Breakdown</u>	
	Taxed for	Maximum	Applied	Applied	Police &	Maintenance
	2022/23	Tax Rate	Tax Rate	Total Tax	Fire Services	Services
City of Ione CFD No. 2005-2 (IA No. 1) Tax B	140	\$473.84	\$473.84	\$66,337.60	\$66,337.60	NA
City of Ione CFD No. 2005-2 (IA No. 2) Tax B	154	\$473.84	\$473.84	\$72,971.36	\$72,971.36	NA
City of Ione CFD No. 2005-2 (IA No. 3) Tax B	288	\$909.32	\$909.32	\$261,884.16	\$207,587.41	\$54,296.75
City of Ione CFD No. 2006-1	170	\$462.48	\$462.48	\$78,621.60	\$78,621.60	NA
City of Ione CFD No. 2009-3	143	\$435.48	\$435.48	\$62,273.64	\$35,313.41	\$26,960.23
TOTAL	NA	NA	NA	\$542,088.36	\$460,831.38	\$81,256.98

Agenda Item

#9

DATE: August 2, 2022

TO: Mayor Epperson and City Council

FROM: Michael Rock, Interim City Manager
Julie Millard, Management Analyst

SUBJECT: Approval of Resolution No. 2022-17 Authorizing Placement of Delinquent Sewer Accounts and Administration Fee to be Submitted to Amador County to be including on the Current Year Tax Roll.

RECOMMENDED ACTION:

1. Adopt Resolution No. 2022-17 authorizing the levy of delinquent balances, as of May 31, 2022 (June billing), along with a \$50.00 per parcel administration fee, to be included on the Amador County 2021-22 tax roll.

FISCAL IMPACT:

Historically, once per year the City of Lone places seriously delinquent sewer accounts with Amador County to be collected as a lien on the property owner's annual tax assessment. This form of collection is addressed in the City of Lone Municipal Code, Chapter 13.42.060. In 2017, City Council approved Ordinance 495 which established a \$50.00 per parcel administration.

BACKGROUND:

In order to have the levy placed on the upcoming tax roll, Amador County Auditor-Controller's Office requires a current resolution, list of parcel numbers and the amount of levy to be submitted to their office by the second week in August each year.

At this time the attached list of sewer accounts have been identified as being more than 90 days delinquent. On June 13, 2022, customers were notified by letter that full payment must be received no later than July 15, 2022 to avoid having their past due balance placed on the County tax roll. Notification of this delinquency was mailed to the owner of records, in addition to the monthly billing statement, which details current and prior balances due.

ATTACHMENTS:

Proposed Resolution Authorizing Placement of Delinquent Sewer Accounts on Amador
County FY 2021-22 Tax Roll

List of parcel numbers and balances of delinquent sewer charges

Municipal Code Section 13.52.060

Ordinance 495

RESOLUTION NO. 2022-17

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF IONE AUTHORIZING THE PLACEMENT OF DELINQUENT UNPAID SEWER BILLS ON THE 2021-2022 AMADOR COUNTY TAX ROLL

WHEREAS, Sewer Services are provided to the property owners in Ione; and

WHEREAS, it is desirable to collect delinquent unpaid sewer bills in an efficient and effective manner; and

WHEREAS, some property owners have delinquent balances for sewer services provided to their property.

NOW, THEREFORE BE IT RESOLVED that the City Council of the City of Ione authorize staff to place delinquent sewer balances upon the Amador County Property Tax Rolls for the Fiscal Year 2021-2022 property tax year.

The foregoing resolution was duly introduced and adopted by the City Council of the City of Ione at their regular meeting held on August 2, 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

Dan Epperson, Mayor

Attest:

Janice Traverso, City Clerk

City of Ione
FY 2021-2022 Tax Roll

Parcel ID	Customer Number	Total Sent to Tax Roll
004-249-002-000	1066.02	981.32
004-061-020-000	1090.01	2238.61
004-158-004-000	1134.01	185.69
004-246-007-000	1137.01	1190.44
004-236-010-000	1179.01	185.69
004-202-007-000	1198.02	220.89
004-090-023-000	1239.01	3116.20
004-062-004-000	1241.02	239.91
004-236-012-000	1256.01	978.30
004-041-026-000	1272.01	207.53
004-112-009-000	1313.01	1146.77
004-261-008-000	1324.01	191.19
004-106-028-000	1348.01	852.05
004-050-002-000	1352.01	1043.20
004-022-027-000	1381.01	1146.77
004-010-007-000	1385.01	366.19
004-021-003-000	1394.02	907.30
004-021-016-000	1405.01	1146.77
004-280-028-000	1437.01	1146.77
004-280-027-000	1438.02	296.71
004-280-034-000	1459.01	1146.77
004-050-023-000	1472.01	1146.77
004-041-053-000	1534.01	299.55
004-022-031-000	1549.01	1146.77
004-231-006-000	1561.01	1146.77
004-023-006-000	1570.01	365.00
004-010-022-000	1577.01	242.52
004-023-005-000	1584.02	805.74
004-010-025-000	1585.01	2209.64

City of Ione
FY 2021-2022 Tax Roll

Parcel ID	Customer Number	Total Sent to Tax Roll
004-121-010-000	1617.01	604.03
004-122-026-000	1641.01	391.23
004-122-023-000	1656.03	185.69
910-000-206-000	1768.01	1146.77
910-000-227-000	1772.01	377.73
004-261-012-000	1816.01	191.19
004-121-030-000	1817.01	1146.77
005-331-010-000	1822.01	170.04
005-334-019-000	1839.01	970.65
005-334-027-000	1898.02	365.16
005-334-020-000	1899.02	365.16
910-001-303-000	2079.01	239.91
004-157-008-000	2105.01	1146.77
005-337-017-000	2228.01	1146.77
910-001-475-000	2239.01	1146.77
004-340-026-000	2254.01	1146.77
910-001-536-000	2301.01	172.67
005-355-013-000	2312.01	1004.52
004-070-038-000	2331.01	604.03
005-430-013-000	2335.01	299.55
004-070-035-000	2336.01	1146.77
005-354-026-000	2345.01	1146.77
910-001-553-000	2349.01	1157.47
910-001-563-000	2376.01	1146.77
004-340-002-000	2394.03	354.38
910-001-574-000	2409.03	1207.47
910-001-575-000	2421.01	1043.86
004-101-003-000	2428.01	3129.61
005-355-001-000	2454.01	516.71
005-440-004-000	2482.02	196.09

City of Ione
FY 2021-2022 Tax Roll

Parcel ID	Customer Number	Total Sent to Tax Roll
005-460-019-000	2529.01	604.03
005-450-047-000	2560.01	445.57
005-460-002-000	2624.01	437.33
004-340-031-000	2672.01	1146.77
011-350-002-000	2790.02	299.55
005-480-023-000	2799.01	239.91
011-340-010-000	2807.01	1496.34
004-010-034-000	2844.02	929.50
004-010-034-000	2845.02	805.74
004-010-037-000	2849.02	1293.36
011-350-005-000	3301.01	1807.10
011-340-032-000	3309.01	3653.69
011-340-034-000	3310.01	792.10
011-340-038-000	3311.01	1295.20
011-350-020-000	3313.01	1104.56
005-520-001-000	4432.01	185.69
005-480-002-000	4447.02	507.85
005-460-050-000	6149.01	1196.55
011-350-006-000	2793.02	299.55
005-460-047-000	7954.01	363.30
Grand Totals:		<u><u>70,759.73</u></u>

13.52.060 - Enforcement.

In the event of the failure of any person billed or the owner of the premises to pay when due any sewer service charges applicable to premises owned by him, the city may enforce payments of such delinquent charges in any of the following manners:

- A. The city may have such premises disconnected from the sanitary sewer system. In the event such disconnection should create a public hazard or nuisance, the superintendent or his representatives may enter upon the premises for the purpose of doing such things as may be reasonably necessary to alleviate or remove such hazard or menace. The owner of such premises shall have a duty to reimburse the city for all expenses incurred by city in disconnecting any such premises, or in doing other things authorized by this section; and no reconnection shall be made until all such charges are paid.
- B. The city clerk may institute action in any court of competent jurisdiction to collect any charges which may be due and payable in the same manner as any other debts owing to the city may be collected.
- C. As an alternative procedure, the city may provide any and all delinquent payments be placed on the tax roll, and collected with property taxes, as provided in Chapter 13.56.
- D. The city may provide otherwise for the collection of such delinquent charges. All remedies provided for in this section for their enforcement and collection are cumulative and may be pursued alternatively or collectively as the city determines. If any remedy is invalid, all valid remedies shall remain effectual.
- E. The city shall collect, in addition to any sewer service charge or penalty or interest assessment, an administrative fee calculated on the actual costs of the city for collection actions described in this section or as described in Chapter 13.56 of this Code.

(Ord. No. 495, 9-5-2017; Ord. 323 § 2(part), 1992).

ORDINANCE No. 495
AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF IONE CALIFORNIA,
AMENDING CHAPTER 13.52 OF THE CITY OF IONE MUNICIPAL CODE

The City Council of the City of Ione, State of California, does hereby approve an ORDINANCE OF THE CITY COUNCIL OF THE CITY OF IONE CALIFORNIA, AMENDING CHAPTER 13.52, Section 13.52.060 OF THE CITY OF IONE MUNICIPAL CODE to state as follows:

Chapter 13.52– BILLING AND COLLECTION

13.52.060-Enforcement

In the event of the failure of any person billed or the owner of the premises to pay when due any sewer service charges applicable to premises owned by him, the city may enforce payments of such delinquent charges in any of the following manners:

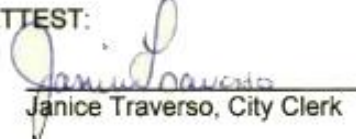
- A. The city may have such premises disconnected from the sanitary sewer system. In the event such disconnection should create a public hazard or nuisance, the superintendent or his representatives may enter upon the premises for the purpose of doing such things as may be reasonably necessary to alleviate or remove such hazard or menace. The owner of such premises shall have a duty to reimburse the city for all expenses incurred by city in disconnecting any such premises, or in doing other things authorized by this section; and no reconnection shall be made until all such charges are paid.
- B. The city clerk may institute action in any court of competent jurisdiction to collect any charges which may be due and payable in the same manner as any other debts owing to the city may be collected.
- C. As an alternative procedure, the city may provide any and all delinquent payments be placed on the tax roll, and collected with property taxes, as provided in Chapter 13.56.
- D. The city may provide otherwise for the collection of such delinquent charges. All remedies provided for in this section for their enforcement and collection are cumulative and may be pursued alternatively or collectively as the city determines. If any remedy is invalid, all valid remedies shall remain effectual.
- E. The city shall collect, in addition to any sewer service charge or penalty or interest assessment, an administrative fee of \$50.00.

The foregoing ordinance was duly introduced at the City Council Meeting held on the 15th day of August, 2017, and adopted by the City Council at their meeting held on September 5, 2017 by the following vote:

AYES: Atlan, Smylie, Wratten, Reed
NOES: None
ABSENT: Epperson
ABSTAIN: None



Dominic Atlan, Mayor

ATTEST: 

Janice Traverso, City Clerk

INTRODUCED: August 15, 2017
ADOPTED: September 5, 2017
EFFECTIVE: October 5, 2017
SUMMARY: September 15, 2017

Agenda Item

#10

DATE: August 2, 2022

TO: Mayor Epperson and City Council

FROM: Michael Rock, Interim City Manager
Julie Millard, Management Analyst

SUBJECT: First Reading of Ordinance to Amend Chapter 2.36 Parks and Recreation Commission

RECOMMENDED ACTION:

1. Approve the Introduction (First Reading) of Ordinance 530 amending City Municipal Code Chapter 2.36 Parks and Recreation Commission, to add the ability to appoint up to two youth advisory commissioners to the Parks and Recreation Commission and to make minor formatting edits; and
2. Waive full reading of and continue Ordinance 530 to August 16, 2022, for Final Passage (Second Reading).

FISCAL IMPACT:

There is no fiscal impact associated with this item.

BACKGROUND:

In 1990 (Ordinance 304), the City of Lone established a parks and recreation commission to advise City Council on all matters relating to public parks and facilities and recreation matters and services. Over the years, Council has approved revisions to the chapter to provide additional details relating to the terms, commission meetings, etc.

In early 2022, a local high school student expressed interest in being a Parks and Recreation Commission Youth Advisory member. It was at that time, staff determined that the ordinance did not specifically allow for Youth Advisory members. However, City Code of Ordinance Chapter 2.36 – Parks and Recreation Commission, Section 2.36.020 – Membership, Item E, provides that the City Council may appoint advisory personnel to assist the commission with its purpose. On March, 15, 2022 (Item #7), City Council appointed its first advisory member using this section.

Staff now desires to amend the ordinance to allow for youth advisory members, outline youth advisory member's requirements, term, and purpose, and to make minor formatting edits.

STRATEGIC GOALS:

Good Governance

ATTACHMENTS:

Chapter 2.36 Parks and Recreation Commission – Current version

Chapter 2.36 Parks and Recreation Commission - Redline

Chapter 2.36 PARKS AND RECREATION COMMISSION

Sections:

2.36.010 Purpose.

A city-wide parks and recreation commission is established and shall be referred to as the "lone parks and recreation commission."

The purpose of the commission is to advise the city council on all matters relating to public parks and facilities and recreation matters and services.

The authority of the commission to act in an advisory capacity is to be interpreted broadly, i.e., the scope of investigation, research and recommendations may pertain to any facet of public parks and recreation activities. The commission may investigate matters on its own or at the direction of the city council. No single councilperson may direct the commission towards specific interests, but the majority of the city council at a public meeting of the city council may provide direction to the commission.

The commission shall be governed by by-laws approved by the city council.

(Ord. 304 § 2, 1990)

2.36.020 Membership.

- A. The commission shall consist of five members.
- B. No less than three of the five commissioners shall reside within the city limits.
- C. No member of the commission shall be an elected official of the city, an appointed employee of the city, or a member of any other city commission appointed by the city council.
- D. One member of the city council may be appointed by the mayor with approval of a majority of the city council to serve as an ex-officio member of the commission.
- E. The city council may from time to time appoint advisory personnel to assist the commission. Such advisors shall not have voting privileges.

(Res. 981 § 1, 1996; Ord. 304 § 3, 1990)

2.36.030 Terms of office.

- A. Commissioners shall be appointed by the mayor with the approval of a majority of the city council.
- B. The commissioners, other than advisory personnel and ex-officio members, shall be appointed as follows:

Three of the members first appointed shall be designated to serve the terms of one, two, and three years respectively from the date of their appointments and two shall be designated to serve for terms of four years from the date of their appointments. All successors shall be appointed for two years. The term of office shall start on the fourth day of September and shall end on the third day of September two years from that initial date. A member shall hold office until his or her successor has been appointed.

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- C. Any commissioner who misses three consecutive meetings with unexcused absences may be requested by the commission, the city council, or the mayor to resign.
 - D. The first chairperson of the commission shall be designated by the mayor to serve a term of four years. Thereafter, the chairperson shall be elected annually at the commission's first meeting in September by the member of the commission. A vice-chairperson shall also be elected at that meeting.

(Res. 1274 §§ 1, 2, 2001; Ord. 304 § 4, 1990)

2.36.040 Powers, duties and procedures.

- A. The commission shall operate pursuant to by-laws approved by the city council.
- B. The powers and functions of the commission may include:
 - 1. Research, investigations, studies and analysis of park and recreation matters;
 - 2. Preparing and recommending policy matters for consideration by the city council;
 - 3. Oversee implementation policies as directed by the city council;
 - 4. Preparing and recommending master development plans and capital improvement plans for park facilities;
 - 5. Preparing and recommending recreation service/activities programs;
 - 6. Acting in its advisory capacity to recommend policy to the city council which will provide for improved park facilities and recreational activities, and the maintenance and operation of those facilities and services.

(Ord. 304 § 5, 1990)

2.36.050 Time and place of meeting.

The park and recreation commission shall meet regularly at City Hall, 1 East Main Street, at seven p.m. on the fourth Tuesday of each month. Other meetings may be called from time to time in the manner required by law.

(Res. 1336 § 1, 2002)

Chapter 2.36 PARKS AND RECREATION COMMISSION

Sections:

2.36.010 Purpose.

A city-wide parks and recreation commission is established and shall be referred to as the "Ione ~~p~~Parks and ~~R~~Recreation ~~e~~Commission."

The purpose of the commission is to advise the ~~city council~~City Council on all matters relating to public parks and facilities and recreation matters and services.

The authority of the commission to act in an advisory capacity is to be interpreted broadly, i.e., the scope of investigation, research and recommendations may pertain to any facet of public parks and recreation activities. The commission may investigate matters on its own or at the direction of the ~~city council~~City Council. No single councilperson may direct the commission towards specific interests, but the majority of the ~~city council~~City Council at a public meeting of the ~~city council~~City Council may provide direction to the commission.

The commission shall be governed by by-laws approved by the ~~city council~~City Council.

(Ord. 304 § 2, 1990)

2.36.020 Membership.

- A. The commission shall consist of five regular members and, depending upon interest, no more than two non-voting youth advisory commissioners.
- B. No less than three of the five regular commissioners shall reside within the city limits.
- C. No member of the commission shall be an elected official of the city, an appointed employee of the city, or a member of any other city commission appointed by the ~~city council~~City Council.
- D. One member of the ~~city council~~City Council may be appointed by the mayor with approval of a majority of the ~~city council~~City Council to serve as an ex-officio member of the commission.
- E. The ~~city council~~City Council may from time to time appoint advisory personnel to assist the commission. Such advisors shall not have voting privileges.
- F. Youth advisory commissioners must be a resident of the City of Ione and be between 13 to 18 years of age.

(Res. 981 § 1, 1996; Ord. 304 § 3, 1990)

2.36.030 Terms of office.

- A. Commissioners shall be appointed by the mayor with the approval of a majority of the ~~city council~~City Council.
- B. The commissioners, other than advisory personnel and ex-officio members, shall be appointed as follows:
 - 1. Three of the regular five members first appointed shall be designated to serve the terms of one, two, and three years respectively from the date of their appointments and two shall be designated to serve for terms of four years from the date of their appointments.

2. All ~~regular member~~ successors shall be appointed for two years ~~terms~~. The term of office shall start on the fourth day of September and shall end on the third day of September two years from that initial date.

3. All ~~regular~~ members shall hold office until his or her successor has been appointed.

~~4.4.~~ All youth advisory commissioners shall serve a one-year term from the date of their appointment.

- C. Any commissioner who misses three consecutive meetings with unexcused absences may be requested by the commission, the ~~city council~~ City Council, or the mayor to resign.
- D. The first chairperson of the commission shall be designated by the mayor to serve a term of four years. Thereafter, the chairperson shall be elected annually at the commission's first meeting in September by the member of the commission. A vice-chairperson shall also be elected at that meeting.

(Res. 1274 §§ 1, 2, 2001; Ord. 304 § 4, 1990)

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A. The commission shall operate pursuant to by-laws approved by the ~~city council~~ City Council.

B. The powers and functions of the commission may include:

1. Research, investigations, studies and analysis of parks and recreation matters;
2. Preparing and recommending policy matters for consideration by the ~~city council~~ City Council;
3. Oversee implementation policies as directed by the ~~city council~~ City Council;
4. Preparing and recommending master development plans and capital improvement plans for park facilities;
5. Preparing and recommending recreation service/activities programs;
6. Acting in its advisory capacity to recommend policy to the ~~city council~~ City Council which will provide for improved park facilities and recreational activities, and the maintenance and operation of those facilities and services.
7. Youth advisory commissioners shall be appointed to represent the interest of lone youth and are required to attend and participate in the meetings and events of the commission when applicable, which will also include the planning and preparation for events and community projects. Time commitments for events vary, but youth advisory commissioners must complete a minimum of 20 service hours per semester.

(Ord. 304 § 5, 1990)

2.36.050 Time and place of meeting.

The ~~p~~Parks and ~~R~~Recreation ~~e~~CCommission shall meet regularly at City Hall, 1 East Main Street, ~~at seven p.m.~~ on the fourth Tuesday of each month. Other meetings may be called from time to time in the manner required by law.

(Res. 1336 § 1, 2002)



CITY OF IONE

August 2, 2022

**Appointment of Planning
Commissioner to Fill
Unexpired Term of
October 2020 – October 2024**