



November 27, 2023

John Mackey, PE  
Director  
Utah Division of Water Quality  
195 North 1950 West  
Salt Lake City UT 84651

RE: Response to NOV/CO for Payson City dated November 1, 2023

John:

We are in receipt of the Notice of Violation and Compliance Order. We are aware of the issues listed in the Order, and have been and will continue to work on solutions. We are proceeding with construction of a new BNR process and many additional upgrades to the WWTP that will better meet our discharge limits. In the interim, we will continue to seek ways to minimize violations and provide better effluent quality. Attached is the requested report addressing the violations listed in the NOV and presenting our proposals for addressing the violations. We trust this will meet your needs and resolve the outstanding issues.

Please don't hesitate to contact me with any questions.

Sincerely,

A handwritten signature in blue ink that reads "David C. Tuckett". The signature is stylized with a large "D" and a long, sweeping underline.

David C. Tuckett  
City Manager



**Payson WWTP**

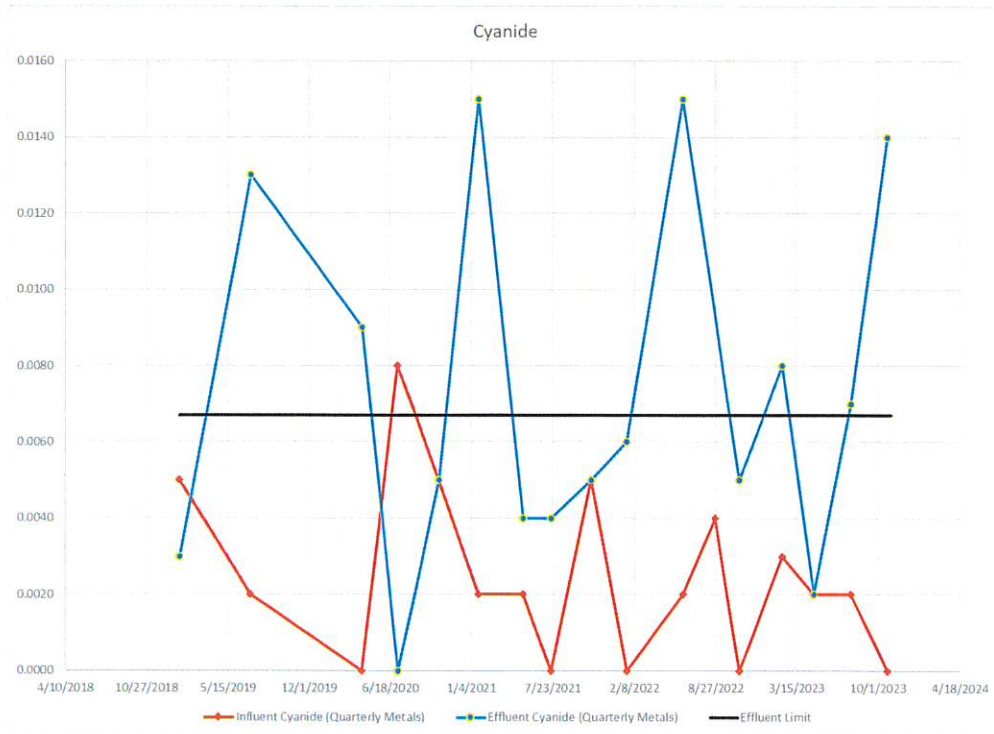
**Response to NOV/CO Dated November 1, 2023**

This report addresses the violations listed in Section D of the NOV.

1. UPDES Permit No. UT0020427 Condition I.C.2.a. Effluent Limitation for Cyanide

A. Evaluation of What Caused the Violations

- 1) High effluent cyanide has been a recent ongoing battle for us and has been the focus of many different efforts.
- 2) We have narrowed the cause to two potential causes.
  - a. Our current process may be generating cyanide in the effluent water by an interaction of nitrites and chlorine during disinfection.
  - b. We are receiving false positives for cyanide during sampling and testing due to reactions between nitrite and chlorine during the hold and test times (see attached technical paper).
- 3) Note that influent cyanide levels have been below the limit during this period (see below graph) with the exception of one sample. The source of cyanide does not appear to come from a discharger to the collection system, and therefore appears to be generated within the WWTP treatment process.



- 4) Also note that free cyanide sampling was performed on the effluent prior to disinfection during the Mar 2022-Jun 2023 period, and that all samples taken during the period were non-detect or near method detection limit. This is further evidence that cyanide is forming during the chlorination process. Therefore, there is little that we can do to prevent cyanide formation until the new UV disinfection process is brought online.

## B. Review Actions Taken or Planned

### 1) Actions Taken to Date

- At the request of DWQ, we have done testing to determine free cyanide levels prior to disinfection. As discussed above, these results were all non-detect.
- In 2021, we did a trial to add hydrogen peroxide to try to oxidize and remove cyanide. After months of testing the hydrogen peroxide and seeing no results of removing the cyanide from the effluent stream, we discontinued using the product.

### 2) Actions Planned

- We plan to continue to search for an interim solution. Since receiving the NOV letter, we have reached out to Jeff Zidek with Thatcher Company. He has suggested the use of ferric sulfide. We will begin jar testing to determine if this is a viable solution.
- We will review chlorine dosage amounts to determine if a lower dose can be used while continuing to meet effluent E. coli limits.
- We are also researching the use of iron sponge to absorb and remove cyanide at the end of the chlorine contact tank.

- d. We will be working with Chemtech-Ford to determine if alternate sampling protocols can be implemented to reduce the potential for false positives.
- e. Ultimately, we expect the problem to be solved when the new process begins operation. The BNR system will remove nitrite to non-detect levels, and UV disinfection will replace chlorine disinfection. As evidence of this, note that all samples for free cyanide have been non-detect.

#### C. Environmental Mitigation or Restoration Plans

- 1) As this issue may be related to false positive sampling, there may not be an impact to the environment. No mitigation or restoration plans will be formulated until after the sampling question is resolved.

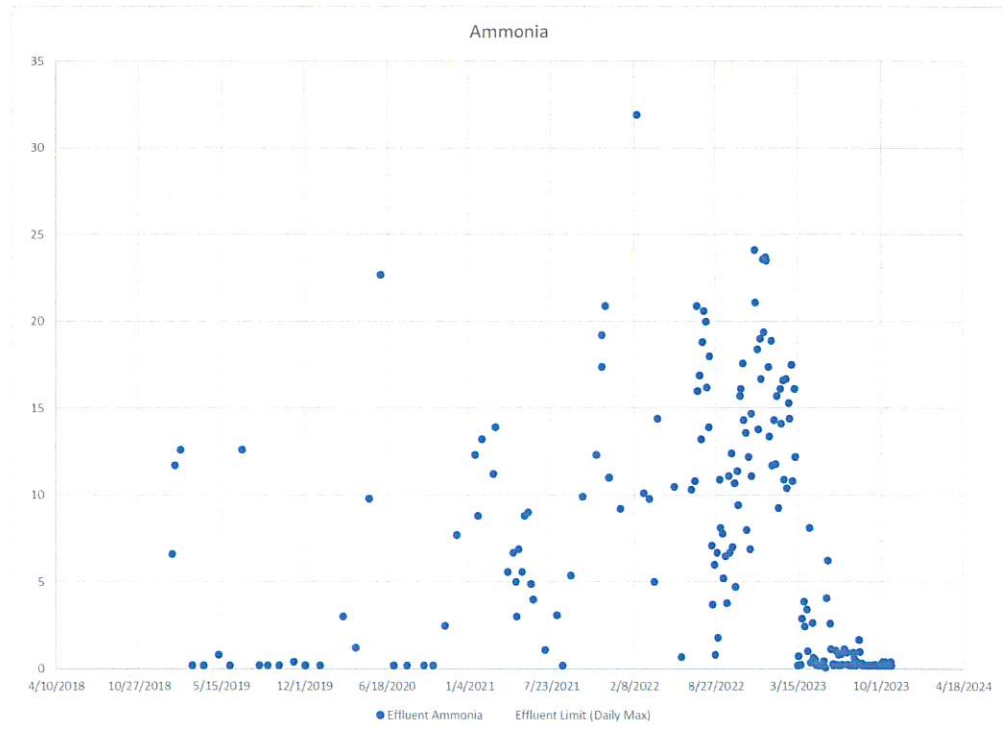
### 2. UPDES Permit No. UT0020427 condition I.C.2.a. Effluent Limitation for Ammonia (as N)

#### A. Evaluation of What Caused the Violations

- 1) Flow and load to the WWTP have increased over the past few years due to service population growth. The existing processes of the trickling filter and STM Aerotor process train has not been able to fully nitrify at all times.

#### B. Review Actions Taken or Planned

- 1) In March 2023, we installed surface aeration equipment into an unused aeration tank located on the WWTP site. Flow from the trickling filter is now routed through this aeration tank prior to going to the STM Aerotor tanks. This has allowed us to provide more hydraulic retention time and increase the MLSS of the activated sludge system. After an acclimation period of several months, the system has been able to better remove ammonia, with low levels of effluent ammonia occurring for the past few months (see graph below).



### C. Environmental Mitigation or Restoration Plans

- 1) We do not propose any additional mitigation or restoration. The work we have done to bring the additional aeration tank online was done to bring the system into compliance and was done in lieu of any mitigation or restoration.

### 3. UPDES Permit No. UT0020427 condition I.C.2.a. Effluent Limitation for Mercury

#### A. Evaluation of What Caused the Violations

- 1) Three exceedances are data entry errors, and one exceedance is an erroneous report. See attached original reports from Chemtech-Ford.
  - a. 9/15/2020: There was a problem with the sample. The 0.000025 mg/L value reported in the DMR was entered correctly, but the blank reading from the sample report was 0.0000224 mg/L (which should have been non-detect). Therefore, this sample is an erroneous result.
  - b. 1/19/2021: The value entered 0.000031 DMR was incorrectly input. The actual sample value was 0.000005 mg/L.
  - c. 1/6/2022: The value entered 0.000031 DMR was incorrectly input. The actual sample value was 0.0000027mg/L.
  - d. 1/10/2023: The value 0.000031 the DMR was incorrectly input. The actual sample value was 0.000002 mg/L.

#### B. Review Actions Taken or Planned

- 1) In our review, we found no actual violations when the data was correctly entered. We will implement further data entry controls and reviews to ensure that all data in the DMR reporting is correct. There will be a two person check on the data entered to prevent this error for future entries.

C. Environmental Mitigation or Restoration Plans

- 1) We do not propose any mitigation or restoration since no effluent limits were violated.

4. UPDES Permit No. UT0020427 condition I.C.2.a. Effluent Limitation for BOD

A. Evaluation of What Caused the Violations

- 1) Similar to the ammonia violations, the BOD violations were due to increasing influent loads, a process upset, and the inability of system to properly respond to the influent conditions.

B. Review Actions Taken or Planned

- 1) The additional aeration tank modifications outlined in the ammonia violations response has and will continue to also help with BOD removal.

C. Environmental Mitigation or Restoration Plans

- 1) We do not propose any additional mitigation or restoration. The work we have done to bring the additional aeration tank online was done to bring the system into compliance and was done in lieu of any mitigation or restoration.

5. UPDES Permit No. UT0020427 condition I.D.1. for Failure to Report Monthly Sampling Results for Oil and Grease

A. Evaluation of What Caused the Violations

- 1) This is due to an oversight during data entry into the DMR form. The data was inadvertently omitted.

B. Review Actions Taken or Planned

- 1) We will implement further data entry controls and reviews to ensure that all data in the DMR reporting is correct. This will also require a two-person entry verification to prevent this from happening for the future reporting.

C. Environmental Mitigation or Restoration Plans

- 1) We do not propose any mitigation or restoration since no effluent limits were violated.

6. UPDES Permit No. UT0020427 condition I.D.1. for Failure to Report Monthly Sampling Results for Cyanide

A. Evaluation of What Caused the Violations

- 1) This is due to an oversight during data entry into the DMR form. The data was inadvertently omitted.

B. Review Actions Taken or Planned

- 1) We will implement further data entry controls and reviews to ensure that all data in the DMR reporting is correct. This will also require a two-person entry verification to prevent this from happening for the future reporting.

C. Environmental Mitigation or Restoration Plans

- 1) We do not propose any mitigation or restoration since no effluent limits were violated.

7. UPDES Permit No. UT0020427 condition I.D.1. for Failure to Report DMRs by the Required Permit Deadlines

A. Evaluation of What Caused the Violations

- 1) This is due to an oversight during the submittal process. The report was not provided by the due date, because NETDMR was not located on the website. We contacted Dan Griffin via email to resolve the issue. Unfortunately by the time the issue was resolved it was past the due date.

B. Review Actions Taken or Planned

- 1) We will implement further submission controls and reviews to ensure that reports are submitted within the time requirements of the permit. Reminders will be placed on at least two wastewater employee's calendars reminding them of the due date for the report and to ensure adequate time is given to compile the data and ensure that it is submitted on time.

C. Environmental Mitigation or Restoration Plans

- 1) We do not propose any mitigation or restoration since no effluent limits were violated.

8. UPDES Permit No. UT0020427 condition I.D.1. for Failure to Follow Approved WET Testing Sampling Procedures

A. Evaluation of What Caused the Violations

- 1) The refrigerator used for storage of samples was not maintaining a proper temperature.

B. Review Actions Taken or Planned

- 1) The refrigerator was replaced.

C. Environmental Mitigation or Restoration Plans

- 1) We do not propose any mitigation or restoration since no effluent limits were violated.

9. Steps Being Taken to Ensure Compliance with all Permitting Requirements for New Permit.

- a. We have completed the design of the plant upgrade and we are working with Ken Hoffman and Andrew Pompeo on the contract requirements to start construction with Alder Construction. We are adding language in the contract as follows:
  - i. Either all contract line items will include the SRF requirements for Davis Bacon Wages and AIS and,
  - ii. The contract packages will be adjusted to make the process meet the SRF requirements.





## Boilerplate Information on Ammonia Violations from 2019 to 2023



UTAH DEPARTMENT of  
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## Division of Water Quality (DWQ) UPDES Program

### INITIAL NON-COMPLIANCE NOTIFICATION

Date of Report: 3/21/2023 DWQ Notification Date: 3/21/2023 DWQ Contact: Daniel Griffin  
Facility Name: Payson City UPDES Permit No.: UT0020427  
Facility Contact: Jeff Hiatt Title: Superintendent  
Phone Number: 801-465-5277 Email Address: Jeffh@payson.org

**Incident Type:**

- ☒ Permit Violation ☐ Order Violation ☐ Anticipated Non-Compliance ☐ Bypass ☐ Overflow  
☐ Other \_\_\_\_\_

Date(s) of Non-Compliance: 2/1/2023-2/28/2023 Location of Discharge: Outfall  
Volume Discharge: \_\_\_\_\_ gallons Water Body Impacted: Beer Creek

**Description of non-compliance(s) and cause(s):**

Ammonia for the month was 17.5

**Clean-up Activities:**

non

**Explanation:**

Lack of air to our air rotors the problem has been resolved

**Resolution/Plan of Resolution:**

closely monitor ammonia and its discharges as well as our incoming flows.

Has event ceased? ☐ Yes ☒ No If so, when? 3/9/2023

Was event due to plant upset? ☐ Yes ☐ No UPDES Discharge Permit limits violated? ☒ Yes ☐ No

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment of knowing violations.

Jeff Hiatt

PRINT Signatory Authority

Signature

Superintendent

Title

3/21/2023

Date

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**Division of Water Quality (DWQ)  
UPDES Program**

**INITIAL NON-COMPLIANCE NOTIFICATION**

Date of Report: 1/1/2023 DWQ Notification Date: 1/31/2023 DWQ Contact: Daniel Griffin  
Facility Name: Payson City UPDES Permit No.: UT0020427  
Facility Contact: Jeff Hiatt Title: Superintendent  
Phone Number: 801-465-5277 Email Address: Jeffh@payson.org

**Incident Type:**

☒ Permit Violation ☐ Order Violation ☐ Anticipated Non-Compliance ☐ Bypass ☐ Overflow  
☐ Other \_\_\_\_\_

Date(s) of Non-Compliance: 1/1/2023-1/31/2023 Location of Discharge: Outfall  
Volume Discharge: \_\_\_\_\_ gallons Water Body Impacted: Beer Creek

**Description of non-compliance(s) and cause(s):**

Ammonia was 18.9 mg/l where are limit is 12 mg/l.

**Clean-up Activities:**

non

**Explanation:**

looking into expanding our aeration to remove our ammonia

**Resolution/Plan of Resolution:**

closely monitor ammonia and its discharges as well as our incoming flows.

Has event ceased? ☒ Yes ☐ No If so, when? \_\_\_\_\_

Was event due to plant upset? ☐ Yes ☐ No UPDES Discharge Permit limits violated? ☒ Yes ☐ No

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Jeff Hiatt

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Superintendent

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2/24/2023

Date

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**Division of Water Quality (DWQ)  
UPDES Program**

**INITIAL NON-COMPLIANCE NOTIFICATION**

Date of Report: 12/1/2022 DWQ Notification Date: 1/20/23 DWQ Contact: Daniel Griffin  
Facility Name: Payson City UPDES Permit No.: UT0020427  
Facility Contact: Jeff Hiatt Title: Superintendent  
Phone Number: 801-465-5277 Email Address: Jeffh@payson.org

**Incident Type:**

- ☒ Permit Violation ☐ Order Violation ☐ Anticipated Non-Compliance ☐ Bypass ☐ Overflow  
☐ Other \_\_\_\_\_

Date(s) of Non-Compliance: 12/1/2022-12/31/2022 Location of Discharge: Outfall  
Volume Discharge: \_\_\_\_\_ gallons Water Body Impacted: Beer Creek

**Description of non-compliance(s) and cause(s):**

Ammonia monthly avg 19.91 mg/l our low was 13.8 our high was 23.7 where are limit is 12 mg/l for the month of December 2022

**Clean-up Activities:**

non

**Explanation:**

**Resolution/Plan of Resolution:**

closely monitor ammonia and its discharges as well as our incoming flows.

Has event ceased? ☒ Yes ☐ No If so, when? \_\_\_\_\_

Was event due to plant upset? ☐ Yes ☐ No UPDES Discharge Permit limits violated? ☒ Yes ☐ No

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Jeff Hiatt

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Title

1/20/2023

Date

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**Division of Water Quality (DWQ)  
UPDES Program**

**INITIAL NON-COMPLIANCE NOTIFICATION**

Date of Report: 8/1/2022 DWQ Notification Date: 8/31/2022 DWQ Contact: Daniel Griffin  
Facility Name: Payson City UPDES Permit No.: UT0020427  
Facility Contact: Jeff Hiatt Title: Superintendent  
Phone Number: 801-465-5277 Email Address: Jeffh@payson.org

**Incident Type:**

- ☒ Permit Violation ☐ Order Violation ☐ Anticipated Non-Compliance ☐ Bypass ☐ Overflow  
☐ Other \_\_\_\_\_

Date(s) of Non-Compliance: 8/2/22,8/4/22,8/11/22 Location of Discharge: Outfall  
Volume Discharge: \_\_\_\_\_ gallons Water Body Impacted: Beer Creek

**Description of non-compliance(s) and cause(s):**

Ammonia was 20.0 mg/l where are limit is 14.1 mg/l on 8/2/22  
Ammonia was 16.2 mg/l where are limit is 14.1 mg/l on 8/4/22  
Ammonia was 18.0 mg/l where are limit is 14.1 mg/l on 8/11/22

**Clean-up Activities:**

non

**Explanation:** We had disc fall off the air rotors. We also had a full air rotor go down.

**Resolution/Plan of Resolution:**

We have repaired the disc as well as fix air rotor.

Has event ceased? ☒ Yes ☐ No If so, when? 8/16/22

Was event due to plant upset? ☐ Yes ☐ No UPDES Discharge Permit limits violated? ☒ Yes ☐ No

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Jeff Hiatt

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Signature

Superintendent

Title

9/14/2022

Date

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**Division of Water Quality (DWQ)  
UPDES Program**

**INITIAL NON-COMPLIANCE NOTIFICATION**

Date of Report: 7/1/22 DWQ Notification Date: 7/31/22 DWQ Contact: Daniel Griffin  
Facility Name: Payson City UPDES Permit No.: UT0020427  
Facility Contact: Jeff Hiatt Title: Superintendent  
Phone Number: 801-465-5277 Email Address: Jeffh@payson.org

**Incident Type:**

- ☒ Permit Violation ☐ Order Violation ☐ Anticipated Non-Compliance ☐ Bypass ☐ Overflow  
☐ Other \_\_\_\_\_

Date(s) of Non-Compliance: 7/1/22-7/31/22 Location of Discharge: Outfall  
Volume Discharge: \_\_\_\_\_ gallons Water Body Impacted: Beer Creek

**Description of non-compliance(s) and cause(s):**

Ammonia, Our Air rotors had some issues and currently waited for parts to repair

**Clean-up Activities:**

non

**Explanation:** our ammonia was 15.59 when our limit is 14.1

**Resolution/Plan of Resolution:**

Repair air rotors

**Has event ceased?** ☒ Yes ☐ No If so, when? \_\_\_\_\_

**Was event due to plant upset?** ☐ Yes ☐ No **UPDES Discharge Permit limits violated?** ☒ Yes ☐ No

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Jeff Hiatt

PRINT Signatory Authority

Signature

Superintendent

Title

8/23/22

Date

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## Division of Water Quality (DWQ) UPDES Program

### INITIAL NON-COMPLIANCE NOTIFICATION

Date of Report: 5/1/2022 DWQ Notification Date: 5/31/2022 DWQ Contact: Daniel Griffin  
Facility Name: Payson City UPDES Permit No.: UT0020427  
Facility Contact: Jeff Hiatt Title: Superintendent  
Phone Number: 801-465-5277 Email Address: Jeffh@payson.org

**Incident Type:**

- ☒ Permit Violation ☐ Order Violation ☐ Anticipated Non-Compliance ☐ Bypass ☐ Overflow  
☐ Other \_\_\_\_\_

Date(s) of Non-Compliance: 5/1/2020-5/31/2022 Location of Discharge: Outfall  
Volume Discharge: \_\_\_\_\_ gallons Water Body Impacted: Beer Creek

**Description of non-compliance(s) and cause(s):**

Due to last months illicit discharge we fill the plant still struggled to denitrification to remove the ammonia

**Clean-up Activities:**

non

**Explanation:**

**Resolution/Plan of Resolution:**

monitor our denitrification

Has event ceased? ☒ Yes ☐ No If so, when? \_\_\_\_\_

Was event due to plant upset? ☐ Yes ☐ No UPDES Discharge Permit limits violated? ☒ Yes ☐ No

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Jeff Hiatt

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Jeff Hiatt  
Signature

Superintendent

Title

6/17/2022

Date

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## Division of Water Quality (DWQ) UPDES Program

### INITIAL NON-COMPLIANCE NOTIFICATION

Date of Report: 2/18/2022 DWQ Notification Date: 2/18/2022 DWQ Contact: Daniel Griffin  
Facility Name: Payson City UPDES Permit No.: UT0020427  
Facility Contact: Jeff Hiatt Title: Superintendent  
Phone Number: 801-465-5277 Email Address: Jeffh@payson.org

**Incident Type:**

- ☒ Permit Violation ☐ Order Violation ☐ Anticipated Non-Compliance ☐ Bypass ☐ Overflow  
☐ Other \_\_\_\_\_

Date(s) of Non-Compliance: 1/1/2022-1/31/2022 Location of Discharge: Outfall  
Volume Discharge: \_\_\_\_\_ gallons Water Body Impacted: Beer Creek

**Description of non-compliance(s) and cause(s):**

Ammonia. Air rotor issues.

**Clean-up Activities:**

non

**Explanation:**

We are currently running test on each area of the plant to figure out the Ammonia spike.

**Resolution/Plan of Resolution:**

closely monitor ammonia and its discharges

Has event ceased? ☒ Yes ☐ No If so, when? \_\_\_\_\_

Was event due to plant upset? ☐ Yes ☐ No UPDES Discharge Permit limits violated? ☒ Yes ☐ No

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Jeff Hiatt

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Superintendent

Title

2/18/2022

Date

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**Division of Water Quality (DWQ)  
UPDES Program**

**INITIAL NON-COMPLIANCE NOTIFICATION**

Date of Report: 12/1/2021 DWQ Notification Date: 12/31/2021 DWQ Contact: Daniel Griffin  
Facility Name: Payson City UPDES Permit No.: UT0020427  
Facility Contact: Jeff Hiatt Title: Superintendent  
Phone Number: 801-465-5277 Email Address: Jeffh@payson.org

**Incident Type:**

- ☒ Permit Violation ☐ Order Violation ☐ Anticipated Non-Compliance ☐ Bypass ☐ Overflow  
☐ Other \_\_\_\_\_

Date(s) of Non-Compliance: 12/1/2021-12/31/2021 Location of Discharge: Outfall  
Volume Discharge: \_\_\_\_\_ gallons Water Body Impacted: Beer Creek

**Description of non-compliance(s) and cause(s):**

Ammonia was 18.3 STM air roter issues

**Clean-up Activities:**

non

**Explanation:**

We have and some of our STM air rotors giving us some issues

**Resolution/Plan of Resolution:**

closely monitor ammonia and its discharges as well as our incoming flows.

Has event ceased? ☒ Yes ☐ No If so, when? \_\_\_\_\_

Was event due to plant upset? ☐ Yes ☐ No UPDES Discharge Permit limits violated? ☒ Yes ☐ No

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Jeff Hiatt

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Signature

Superintendent

Title

1/14/2022

Date

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**Division of Water Quality (DWQ)  
UPDES Program**

**INITIAL NON-COMPLIANCE NOTIFICATION**

Date of Report: 11/1/2021 DWQ Notification Date: 11/30/2021 DWQ Contact: Daniel Griffin  
Facility Name: Payson City UPDES Permit No.: UT0020427  
Facility Contact: Jeff Hiatt Title: Superintendent  
Phone Number: 801-465-5277 Email Address: Jeffh@payson.org

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Date(s) of Non-Compliance: 11/1/2021-11/30/2021 Location of Discharge: Outfall  
Volume Discharge: \_\_\_\_\_ gallons Water Body Impacted: Beer Creek

**Description of non-compliance(s) and cause(s):**

Ammonia was 20.9 mg/l where are limit is 11 mg/l  
Cyanide monthly avg was above the 0.0067

**Clean-up Activities:**

non

**Explanation:** We have some of our airation down due to some parts breaking we are currently waiting on parts for repair

**Resolution/Plan of Resolution:**

Repair broken air rotors

Has event ceased? ☒ Yes ☒ No If so, when? \_\_\_\_\_

Was event due to plant upset? ☐ Yes ☐ No UPDES Discharge Permit limits violated? ☒ Yes ☐ No

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Jeff Hiatt

PRINT Signatory Authority

Signature

Superintendent

Title

12/17/2021

Date

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10/29/2021

**Work Order: 21J1169**  
**Project: UPDES Permit Sampling**

**Payson City WWTP**  
**Attn: Jeff Hiatt**  
**439 West Utah Avenue**  
**Payson, UT 84651**

**Client Service Contact: 801.262.7299**

The analyses presented on this report were performed in accordance with the National Environmental Laboratory Accreditation Program (NELAP) unless noted in the comments, flags, or case narrative. If the report is to be used for regulatory compliance, it should be presented in its entirety, and not be altered.



Approved By:

Mark Broadhead, Project Manager



**CHEMTECH-FORD**  
LABORATORIES

**Payson City WWTP**  
Jeff Hiatt

## **REPORT NARRATIVE**

### **Sample Group**

<u>Laboratory ID</u>	<u>Sample Name</u>
21J1169-01	Influent - Composite
21J1169-02	Effluent - Composite

The BOD on 21J1169-02 cannot be measured due to some unknown interference that is making the dissolved oxygen to increase over time.



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### Certificate of Analysis

Payson City WWTP  
Jeff Hiatt  
439 West Utah Avenue  
Payson, UT 84651

PO#:  
Receipt: 10/21/21 14:35 @ 6.1 °C  
Date Reported: 10/29/2021  
Project Name: UPDES Permit Sampling

Sample ID: Influent - Composite

Matrix: Wastewater

Sample Type: Composite

Lab ID: 21J1169-01

Date Sampled: 10/21/21 6:05

Sampled By: Phillip Lundell

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Inorganic</b>							
Biochemical Oxygen Demand	423	mg/L	5	SM 5210 B	10/21/21 16:48	10/26/21 14:14	
Total Suspended Solids (TSS)	242	mg/L	20	SM 2540 D	10/22/21	10/22/21	



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Receipt: 10/21/21 14:35 @ 6.1 °C  
Date Reported: 10/29/2021  
Project Name: UPDES Permit Sampling

Sample ID: **Effluent - Composite**

Matrix: **Wastewater**

Sample Type: **Composite**

Lab ID: **21J1169-02**

Date Sampled: 10/21/21 6:10

Sampled By: **Phillip Lundell**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Inorganic</b>							
Ammonia as N	2.5	mg/L	0.2	SM 4500 NH3 H	10/25/21	10/25/21	
Biochemical Oxygen Demand	See case narrative	mg/L	5	SM 5210 B	10/21/21 16:48	10/26/21 14:14	
Total Suspended Solids (TSS)	ND	mg/L	4	SM 2540 D	10/22/21	10/22/21	



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PO#:  
Receipt: 10/21/21 14:35 @ 6.1 °C  
Date Reported: 10/29/2021  
Project Name: **UPDES Permit Sampling**

---

### Report Footnotes

#### Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit (MRL).

1 mg/L = one milligram per liter or 1 mg/kg = one milligram per kilogram = 1 part per million.

1 ug/L = one microgram per liter or 1 ug/kg = one microgram per kilogram = 1 part per billion.

1 ng/L = one nanogram per liter or 1 ng/kg = one nanogram per kilogram = 1 part per trillion.







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**Division of Water Quality (DWQ)  
UPDES Program**

**INITIAL NON-COMPLIANCE NOTIFICATION**

Date of Report: 12/1/2021 DWQ Notification Date: 12/31/2021 DWQ Contact: Daniel Griffin  
Facility Name: Payson City UPDES Permit No.: UT0020427  
Facility Contact: Jeff Hiatt Title: Superintendent  
Phone Number: 801-465-5277 Email Address: Jeffh@payson.org

**Incident Type:**

- ☒ Permit Violation ☐ Order Violation ☐ Anticipated Non-Compliance ☐ Bypass ☐ Overflow  
☐ Other \_\_\_\_\_

Date(s) of Non-Compliance: 12/1/2021-12/31/2021 Location of Discharge: Outfall  
Volume Discharge: \_\_\_\_\_ gallons Water Body Impacted: Beer Creek

**Description of non-compliance(s) and cause(s):**

Ammonia was 18.3 STM air roter issues

**Clean-up Activities:**

non

**Explanation:** We have and some of our STM air rotors giving us some issues

**Resolution/Plan of Resolution:**

closely monitor ammonia and its discharges as well as our incoming flows.

**Has event ceased?** ☒ Yes ☐ No **If so, when?** \_\_\_\_\_

**Was event due to plant upset?** ☐ Yes ☐ No **UPDES Discharge Permit limits violated?** ☒ Yes ☐ No

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Jeff Hiatt

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10/14/2021

**Work Order: 21J0198**  
**Project: UPDES Permit Sampling**

**Payson City WWTP**  
**Attn: Jeff Hiatt**  
**439 West Utah Avenue**  
**Payson, UT 84651**

**Client Service Contact: 801.262.7299**

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Approved By:

Mark Broadhead, Project Manager



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PO#:  
Receipt: 10/5/21 14:25 @ 8.4 °C  
Date Reported: 10/14/2021  
Project Name: UPDES Permit Sampling

Sample ID: Influent - Composite

Matrix: Wastewater

Sample Type: Composite

Lab ID: 21J0198-01

Date Sampled: 10/5/21 6:05

Sampled By: Phillip Lundell

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
<b>Inorganic</b>							
Ammonia as N	37.6	mg/L	2.0	SM 4500 NH3 H	10/11/21	10/11/21	
Biochemical Oxygen Demand	219	mg/L	5	SM 5210 B	10/6/21 11:53	10/11/21 12:06	BOD-BL
Phosphate, ortho as P	4.4	mg/L	0.10	SM 4500 P-E	10/5/21 16:47	10/5/21 18:49	
Total Dissolved Solids (TDS)	1740	mg/L	20	SM 2540 C	10/6/21	10/6/21	
Total Kjeldahl Nitrogen	57.1	mg/L	5.3	SM 4500 Norg	10/11/21	10/12/21	
Total Suspended Solids (TSS)	134	mg/L	20	SM 2540 D	10/6/21	10/6/21	
<b>Metals</b>							
Phosphorus, Total as P	7.8	mg/L	0.01	EPA 200.7	10/6/21	10/8/21	
<b>Fatty Acids by EPA Method 8015 (modified)</b>							
Acetic Acid	73.3	mg/L	1.00	EPA 8015 C	10/5/21	10/5/21	
Butyric Acid	1.70	mg/L	1.00	EPA 8015 C	10/5/21	10/5/21	
Caproic Acid	ND	mg/L	1.00	EPA 8015 C	10/5/21	10/5/21	
Heptanoic Acid	ND	mg/L	1.00	EPA 8015 C	10/5/21	10/5/21	
Isobutyric Acid	ND	mg/L	1.00	EPA 8015 C	10/5/21	10/5/21	
Isocaproic Acid	ND	mg/L	1.00	EPA 8015 C	10/5/21	10/5/21	
Isovaleric Acid	ND	mg/L	1.00	EPA 8015 C	10/5/21	10/5/21	
Propanoic Acid	6.57	mg/L	1.00	EPA 8015 C	10/5/21	10/5/21	
Valeric Acid	1.16	mg/L	1.00	EPA 8015 C	10/5/21	10/5/21	
Volatile Acids	82.7	mg/L	10.0	EPA 8015 C	10/5/21	10/5/21	



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PO#:  
Receipt: 10/5/21 14:25 @ 8.4 °C  
Date Reported: 10/14/2021  
Project Name: UPDES Permit Sampling

Sample ID: Effluent - Composite

Matrix: Wastewater

Sample Type: Composite

Lab ID: 21J0198-02

Date Sampled: 10/5/21 6:15

Sampled By: Phillip Lundell

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Inorganic</b>							
Ammonia as N	15.2	mg/L	1.0	SM 4500 NH3 H	10/11/21	10/11/21	
Biochemical Oxygen Demand	17	mg/L	5	SM 5210 B	10/6/21 11:53	10/11/21 12:08	BOD-BL
Total Dissolved Solids (TDS)	924	mg/L	20	SM 2540 C	10/6/21	10/6/21	
Total Suspended Solids (TSS)	4	mg/L	4	SM 2540 D	10/6/21	10/6/21	



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PO#:  
Receipt: 10/5/21 14:25 @ 8.4 °C  
Date Reported: 10/14/2021  
Project Name: UPDES Permit Sampling

---

### Report Footnotes

#### Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit (MRL).

1 mg/L = one milligram per liter or 1 mg/kg = one milligram per kilogram = 1 part per million.

1 ug/L = one microgram per liter or 1 ug/kg = one microgram per kilogram = 1 part per billion.

1 ng/L = one nanogram per liter or 1 ng/kg = one nanogram per kilogram = 1 part per trillion.

#### Flag Descriptions

BOD-BL = Of the two dilution blanks that were set up with the batch, one slightly failed the maximum depletion criteria. Because the other blank passed, it was determined that the dilution water was not compromised. The BOD results are not adversely affected.





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**Division of Water Quality (DWQ)  
UPDES Program**

**INITIAL NON-COMPLIANCE NOTIFICATION**

Date of Report: 6/15/2021 DWQ Notification Date: 6/15/2021 DWQ Contact: Daniel Griffin  
Facility Name: Payson City UPDES Permit No.: UT0020427  
Facility Contact: Jeff Hiatt Title: Superintendent  
Phone Number: 801-465-5277 Email Address: Jeffh@payson.org

**Incident Type:**

☒ Permit Violation ☐ Order Violation ☐ Anticipated Non-Compliance ☐ Bypass ☐ Overflow  
☐ Other \_\_\_\_\_

Date(s) of Non-Compliance: 5/18/2021 Location of Discharge: Outfall  
Volume Discharge: \_\_\_\_\_ gallons Water Body Impacted: Beer Creek

**Description of non-compliance(s) and cause(s):**

Ammonia was 14.4

**Clean-up Activities:**

non

**Explanation:**

**Resolution/Plan of Resolution:**

closely monitor ammonia and its discharges as well as our incoming flows.

Has event ceased? ☒ Yes ☐ No If so, when? \_\_\_\_\_

Was event due to plant upset? ☐ Yes ☐ No UPDES Discharge Permit limits violated? ☒ Yes ☐ No

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment of knowing violations.

Jeff Hiatt

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Superintendent

Title

6/15/2021

Date

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## Boilerplate Information on Cyanide Violations from 2019 to 2023





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**Division of Water Quality (DWQ)  
UPDES Program**

**INITIAL NON-COMPLIANCE NOTIFICATION**

Date of Report: 11/1/2022 DWQ Notification Date: 11/30/2022 DWQ Contact: Daniel Griffin  
Facility Name: Payson City UPDES Permit No.: UT0020427  
Facility Contact: Jeff Hiatt Title: Superintendent  
Phone Number: 801-465-5277 Email Address: Jeffh@payson.org

**Incident Type:**

- ☒ Permit Violation ☐ Order Violation ☐ Anticipated Non-Compliance ☐ Bypass ☐ Overflow  
☐ Other \_\_\_\_\_

Date(s) of Non-Compliance: 11/1/2022-11/30/2022 Location of Discharge: Outfall  
Volume Discharge: \_\_\_\_\_ gallons Water Body Impacted: Beer Creek

**Description of non-compliance(s) and cause(s):**

Cyandle our limit is 0.0067 we had a monthly avg of 0.0078

**Clean-up Activities:**

non

**Explanation:**

**Resolution/Plan of Resolution:**

Has event ceased? ☐ Yes ☒ No If so, when? \_\_\_\_\_

Was event due to plant upset? ☐ Yes ☒ No UPDES Discharge Permit limits violated? ☐ Yes ☒ No

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Jeff Hiatt

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Superintendent

Title

12/21/2022

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## Division of Water Quality (DWQ) UPDES Program

### INITIAL NON-COMPLIANCE NOTIFICATION

Date of Report: 11/1/2022 DWQ Notification Date: 11/30/2022 DWQ Contact: Daniel Griffin  
Facility Name: Payson City UPDES Permit No.: UT0020427  
Facility Contact: Jeff Hiatt Title: Superintendent  
Phone Number: 801-465-5277 Email Address: Jeffh@payson.org

**Incident Type:**

- ☒ Permit Violation ☐ Order Violation ☐ Anticipated Non-Compliance ☐ Bypass ☐ Overflow  
☐ Other \_\_\_\_\_

Date(s) of Non-Compliance: 11/1/2022-11/30/2022 Location of Discharge: Outfall  
Volume Discharge: \_\_\_\_\_ gallons Water Body Impacted: Beer Creek

**Description of non-compliance(s) and cause(s):**

Ammonia monthly avg was 13.61 and our limit is 6.0  
Our daily max is 9.0 we were 24.1

**Clean-up Activities:**

non

**Explanation:** With the cold temps we have not been able to supply enough air to have denitrification

**Resolution/Plan of Resolution:**

closely monitor ammonia and its discharges as well as our incoming flows.

Has event ceased? ☐ Yes ☒ No If so, when? when we get our air up to have denitrification

Was event due to plant upset? ☐ Yes ☒ No UPDES Discharge Permit limits violated? ☐ Yes ☐ No

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Jeff Hiatt

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Superintendent

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12/21/2022

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**Division of Water Quality (DWQ)  
UPDES Program**

**INITIAL NON-COMPLIANCE NOTIFICATION**

Date of Report: 8/1/2022 DWQ Notification Date: 8/31/2022 DWQ Contact: Daniel Griffin  
Facility Name: Payson City UPDES Permit No.: UT0020427  
Facility Contact: Jeff Hiatt Title: Superintendent  
Phone Number: 801-465-5277 Email Address: Jeffh@payson.org

**Incident Type:**

- ☒ Permit Violation ☐ Order Violation ☐ Anticipated Non-Compliance ☐ Bypass ☐ Overflow  
☐ Other \_\_\_\_\_

Date(s) of Non-Compliance: 8/1/2022-8/31/2022 Location of Discharge: Outfall  
Volume Discharge: \_\_\_\_\_ gallons Water Body Impacted: Beer Creek

**Description of non-compliance(s) and cause(s):**

Cyanide limit is 0.0067 for a monthly avg. Are avg was 0.0096

**Clean-up Activities:**

non

**Explanation:** Chlorine reacts with are nitrates.

**Resolution/Plan of Resolution:**

We currently add hydrogen peroxide to react with the cyanide.

Has event ceased? ☐ Yes ☒ No If so, when? \_\_\_\_\_

Was event due to plant upset? ☐ Yes ☐ No UPDES Discharge Permit limits violated? ☒ Yes ☐ No

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Jeff Hiatt

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9/14/2022

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**Division of Water Quality (DWQ)  
UPDES Program**

**INITIAL NON-COMPLIANCE NOTIFICATION**

Date of Report: 7/1/22 DWQ Notification Date: 7/31/22 DWQ Contact: Daniel Griffin  
Facility Name: Payson City UPDES Permit No.: UT0020427  
Facility Contact: Jeff Hiatt Title: Superintendent  
Phone Number: 801-465-5277 Email Address: Jeffh@payson.org

**Incident Type:**

- ☒ Permit Violation ☐ Order Violation ☐ Anticipated Non-Compliance ☐ Bypass ☐ Overflow  
☐ Other \_\_\_\_\_

Date(s) of Non-Compliance: 7/1/22-7/31/22 Location of Discharge: Outfall  
Volume Discharge: \_\_\_\_\_ gallons Water Body Impacted: Beer Creek

**Description of non-compliance(s) and cause(s):**

Cyanide

**Clean-up Activities:**

non

Explanation: Monthly avg was 0.0133 when our limit is 0.0067

**Resolution/Plan of Resolution:**

Add additional hydrogen peroxide to combat with it.

Has event ceased? ☒ Yes ☐ No If so, when? \_\_\_\_\_

Was event due to plant upset? ☐ Yes ☐ No UPDES Discharge Permit limits violated? ☒ Yes ☐ No

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## Division of Water Quality (DWQ) UPDES Program

### INITIAL NON-COMPLIANCE NOTIFICATION

Date of Report: 5/1/2022 DWQ Notification Date: 5/31/2022 DWQ Contact: Daniel Griffin  
Facility Name: Payson City UPDES Permit No.: UT0020427  
Facility Contact: Jeff Hiatt Title: Superintendent  
Phone Number: 801-465-5277 Email Address: Jeffh@payson.org

**Incident Type:**

- ☒ Permit Violation ☐ Order Violation ☐ Anticipated Non-Compliance ☐ Bypass ☐ Overflow  
☐ Other \_\_\_\_\_

Date(s) of Non-Compliance: 5/1/2020-5/31/2022 Location of Discharge: Outfall  
Volume Discharge: \_\_\_\_\_ gallons Water Body Impacted: Beer Creek

**Description of non-compliance(s) and cause(s):**

Total cyanide, we continue to have issues with cl2 gas and nitrates fourming total cyanide

**Clean-up Activities:**

non

**Explanation:** We test for free cyanide and get a Non detection. Total we create with our cl2 gas and nitrates.

**Resolution/Plan of Resolution:**

Has event ceased? ☒ Yes ☐ No If so, when? \_\_\_\_\_

Was event due to plant upset? ☐ Yes ☐ No UPDES Discharge Permit limits violated? ☒ Yes ☐ No

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Jeff Hiatt

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6/17/2022

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UPDES Program**

**INITIAL NON-COMPLIANCE NOTIFICATION**

Date of Report: 3/1/2022 DWQ Notification Date: 3/31/2022 DWQ Contact: Daniel Griffin  
Facility Name: Payson City UPDES Permit No.: UT0020427  
Facility Contact: Jeff Hiatt Title: Superintendent  
Phone Number: 801-465-5277 Email Address: Jeffh@payson.org

**Incident Type:**

- ☒ Permit Violation ☐ Order Violation ☐ Anticipated Non-Compliance ☐ Bypass ☐ Overflow  
☐ Other \_\_\_\_\_

Date(s) of Non-Compliance: 3/1/2022-3/31/2022 Location of Discharge: Outfall  
Volume Discharge: \_\_\_\_\_ gallons Water Body Impacted: Beer Creek

**Description of non-compliance(s) and cause(s):**

Total Cyanide was 0.110 out Monthly avg limit is 0.0067

**Clean-up Activities:**

non

**Explanation:**

**Resolution/Plan of Resolution:**

Has event ceased? ☒ Yes ☐ No If so, when? \_\_\_\_\_

Was event due to plant upset? ☐ Yes ☐ No UPDES Discharge Permit limits violated? ☒ Yes ☐ No

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment of knowing violations.

Jeff Hiatt

PRINT Signatory Authority

Jeff Hiatt  
Signature

Superintendent

Title

4/22/2022

Date

*The Division of Water Quality may request addition information.*

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UTAH DEPARTMENT of  
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**WATER  
QUALITY**

**Division of Water Quality (DWQ)  
UPDES Program**

**INITIAL NON-COMPLIANCE NOTIFICATION**

Date of Report: 2/18/2022 DWQ Notification Date: 2/18/2022 DWQ Contact: Daniel Griffin  
Facility Name: Payson City UPDES Permit No.: UT0020427  
Facility Contact: Jeff Hiatt Title: Superintendent  
Phone Number: 801-465-5277 Email Address: Jeffh@payson.org

**Incident Type:**

- ☒ Permit Violation ☐ Order Violation ☐ Anticipated Non-Compliance ☐ Bypass ☐ Overflow  
☐ Other \_\_\_\_\_

Date(s) of Non-Compliance: 1/1/2022-1/31/2022 Location of Discharge: Outfall  
Volume Discharge: \_\_\_\_\_ gallons Water Body Impacted: Beer Creek

**Description of non-compliance(s) and cause(s):**

Cyanide, After we use chlorine gas me make Cyanide

**Clean-up Activities:**

non

**Explanation:** We are currently adding hydrogen proxide to elemenate the cyanide.

**Resolution/Plan of Resolution:**

Upgrade plant to UV

Has event ceased? ☒ Yes ☐ No If so, when? \_\_\_\_\_

Was event due to plant upset? ☐ Yes ☐ No UPDES Discharge Permit limits violated? ☒ Yes ☐ No

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Jeff Hiatt

PRINT Signatory Authority

Signature

Superintendent

Title

2/18/2022

Date

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QUALITY**

**Division of Water Quality (DWQ)  
UPDES Program**

**INITIAL NON-COMPLIANCE NOTIFICATION**

Date of Report: 12/1/2021 DWQ Notification Date: 12/31/2021 DWQ Contact: Daniel Griffin  
Facility Name: Payson City UPDES Permit No.: UT0020427  
Facility Contact: Jeff Hiatt Title: Superintendent  
Phone Number: 801-465-5277 Email Address: Jeffh@payson.org

**Incident Type:**

- ☒ Permit Violation ☐ Order Violation ☐ Anticipated Non-Compliance ☐ Bypass ☐ Overflow  
☐ Other \_\_\_\_\_

Date(s) of Non-Compliance: 12/1/2021-12/31/2021 Location of Discharge: Outfall  
Volume Discharge: \_\_\_\_\_ gallons Water Body Impacted: Beer Creek

**Description of non-compliance(s) and cause(s):**

Cyandle

**Clean-up Activities:**

non

**Explanation:** we see no cyandle in the plant until we add chlorine gas disinfection

**Resolution/Plan of Resolution:**

closely monitor discharges

**Has event ceased?** ☒ Yes ☐ No If so, when? \_\_\_\_\_

**Was event due to plant upset?** ☐ Yes ☐ No **UPDES Discharge Permit limits violated?** ☒ Yes ☐ No

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Jeff Hiatt

PRINT Signatory Authority

Signature

Superintendent

Title

1/14/2022

Date

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## Division of Water Quality (DWQ) UPDES Program

### INITIAL NON-COMPLIANCE NOTIFICATION

Date of Report: 6/15/2021 DWQ Notification Date: 6/15/2021 DWQ Contact: Daniel Griffin  
Facility Name: Payson City UPDES Permit No.: UT0020427  
Facility Contact: Jeff Hiatt Title: Superintendent  
Phone Number: 801-465-5277 Email Address: Jeffh@payson.org

**Incident Type:**

- ☒ Permit Violation ☐ Order Violation ☐ Anticipated Non-Compliance ☐ Bypass ☐ Overflow  
☐ Other \_\_\_\_\_

Date(s) of Non-Compliance: 5/1/2021-5/31/2021 Location of Discharge: Outfall  
Volume Discharge: \_\_\_\_\_ gallons Water Body Impacted: Beer Creek

**Description of non-compliance(s) and cause(s):**

Cyanide avg was 0.0120 our limit is 0.0067

**Clean-up Activities:**

non

**Explanation:**

We believe cyanide is being created in our chlorine contact area since there is no source coming into the plant.

**Resolution/Plan of Resolution:**

We have been dosing with hydrogen peroxide which seems to help.

Has event ceased? ☒ Yes ☐ No If so, when? \_\_\_\_\_

Was event due to plant upset? ☐ Yes ☐ No UPDES Discharge Permit limits violated? ☒ Yes ☐ No

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Jeff Hiatt

PRINT Signatory Authority

Signature

Superintendent

Title

6/15/2021

Date

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## Division of Water Quality (DWQ) UPDES Program

### INITIAL NON-COMPLIANCE NOTIFICATION

Date of Report: 5/5/2021 DWQ Notification Date: 5/5/2021 DWQ Contact: Daniel Griffin  
Facility Name: Payson City UPDES Permit No.: UT0020427  
Facility Contact: Jeff Hiatt Title: Superintendent  
Phone Number: 801-465-5277 Email Address: Jeffh@payson.org

**Incident Type:**

- ☒ Permit Violation ☐ Order Violation ☐ Anticipated Non-Compliance ☐ Bypass ☐ Overflow  
☐ Other \_\_\_\_\_

Date(s) of Non-Compliance: 4/1/2021 Location of Discharge: Outfall  
Volume Discharge: \_\_\_\_\_ gallons Water Body Impacted: Beer Creek

**Description of non-compliance(s) and cause(s):**

Cyanide limit is 0.0067 for a monthly avg. our average for the month of April was 0.097

**Clean-up Activities:**

non

**Explanation:**

We are currently doing testing to figure out our Cyanide issue what we are seeing is that our incoming Cyanide is below or at detection limits. We notice our spike of Cyanide occurring in the chlorine contact chambers. We believe that it is a chemical reaction from our CL2 and Ammonia gas along with our Nitrites. We have been doing jar testing using hydrogen peroxide to oxidize the Cyanide before leaving the plants Chlorine contact basin.

**Resolution/Plan of Resolution:**

Dosing the plants effluent with 34% hydrogen peroxide with a chemical feed pump to remove the plants cyanide to become in compliance of our discharge permit.

Has event ceased? ☐ Yes ☒ No If so, when? When we have calculated the correct dosage to remove the Cyanide

Was event due to plant upset? ☐ Yes ☐ No UPDES Discharge Permit limits violated? ☒ Yes ☐ No

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Jeff Hiatt

Superintendent

5/5/2021

PRINT Signatory Authority

Signature

Title

Date

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**WATER  
QUALITY**

**Division of Water Quality (DWQ)  
UPDES Program**

**INITIAL NON-COMPLIANCE NOTIFICATION**

Date of Report: 2/23/2021 DWQ Notification Date: 2/1/2021 DWQ Contact: Daniel Griffin  
Facility Name: Payson City UPDES Permit No.: UT0020427  
Facility Contact: Jeff Hiatt Title: Superintendent  
Phone Number: 801-465-5277 Email Address: Jeffh@payson.org

**Incident Type:**

☒ Permit Violation ☐ Order Violation ☐ Anticipated Non-Compliance ☐ Bypass ☐ Overflow  
☐ Other \_\_\_\_\_

Date(s) of Non-Compliance: 1/1/2021-1/31/2021 Location of Discharge: Outfall  
Volume Discharge: \_\_\_\_\_ gallons Water Body Impacted: Beer Creek

**Description of non-compliance(s) and cause(s):**

Cyanide monthly avg of 0.0135. After doing some testing we have figured out it was a chemical reaction with CL2 and our Nitrites causing us to form Cyanide.

**Clean-up Activities:**

non

**Explanation:**

**Resolution/Plan of Resolution:**

closely monitor our cl2 usage and its discharges.

Has event ceased? ☒ Yes ☐ No If so, when? \_\_\_\_\_

Was event due to plant upset? ☐ Yes ☐ No UPDES Discharge Permit limits violated? ☒ Yes ☐ No

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Jeff Hiatt

PRINT Signatory Authority

Signature

Superintendent

Title

2/1/2021

Date

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**Division of Water Quality (DWQ)  
UPDES Program**

**INITIAL NON-COMPLIANCE NOTIFICATION**

Date of Report: 12/1/2021 DWQ Notification Date: 12/31/2021 DWQ Contact: Daniel Griffin  
Facility Name: Payson City UPDES Permit No.: UT0020427  
Facility Contact: Jeff Hiatt Title: Superintendent  
Phone Number: 801-465-5277 Email Address: Jeffh@payson.org

**Incident Type:**

- ☒ Permit Violation ☐ Order Violation ☐ Anticipated Non-Compliance ☐ Bypass ☐ Overflow  
☐ Other \_\_\_\_\_

Date(s) of Non-Compliance: 12/1/2021-12/31/2021 Location of Discharge: Outfall  
Volume Discharge: \_\_\_\_\_ gallons Water Body Impacted: Beer Creek

**Description of non-compliance(s) and cause(s):**

Cyandle

**Clean-up Activities:**

non

**Explanation:** we see no cyandle in the plant until we add chlorine gas disinfection

**Resolution/Plan of Resolution:**

closely monitor discharges

**Has event ceased?** ☒ Yes ☐ No If so, when? \_\_\_\_\_

**Was event due to plant upset?** ☐ Yes ☐ No **UPDES Discharge Permit limits violated?** ☒ Yes ☐ No

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Jeff Hiatt

PRINT Signatory Authority

Signature

Superintendent

Title

1/14/2022

Date

*The Division of Water Quality may request addition information.*

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10/17/2019

**Work Order: 19J0484**  
**Project: Quarterly Metals**

**Payson City WWTP**  
**Attn: Jeff Hiatt**  
**439 West Utah Avenue**  
**Payson, UT 84651**

**Client Service Contact: 801.262.7299**

The analyses presented on this report were performed in accordance with the National Environmental Laboratory Accreditation Program (NELAP) unless noted in the comments, flags, or case narrative. If the report is to be used for regulatory compliance, it should be presented in its entirety, and not be altered.



Approved By:

Mark Broadhead, Project Manager



# Chemtech-Ford Laboratories

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9632 South 500 West  
Sandy, UT 84070  
O: (801) 262-7299 F: (866) 792-0093  
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## Certificate of Analysis

Payson City WWTP  
Jeff Hiatt  
439 West Utah Avenue  
Payson, UT 84651

PO#:  
Receipt: 10/8/19 14:55 @ 3.1 °C  
Date Reported: 10/17/2019  
Project Name: Quarterly Metals

Sample ID: Influent Composite

Matrix: Wastewater

Sample Type: Composite

Lab ID: 19J0484-01

Date Sampled: 10/8/19 7:20

Sampled By: Phillip Lundell

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Metals</b>							
Arsenic, Total	ND	mg/L	0.05	EPA 200.7	10/9/19	10/11/19	
Cadmium, Total	ND	mg/L	0.0002	EPA 200.8	10/9/19	10/11/19	
Chromium, Total	ND	mg/L	0.005	EPA 200.7	10/9/19	10/11/19	
Copper, Total	0.023	mg/L	0.005	EPA 200.7	10/9/19	10/11/19	
Lead, Total	0.0007	mg/L	0.0005	EPA 200.8	10/9/19	10/11/19	
Mercury, Total	ND	mg/L	0.00020	EPA 245.1	10/9/19	10/11/19	
Molybdenum, Total	ND	mg/L	0.01	EPA 200.7	10/9/19	10/11/19	
Nickel, Total	ND	mg/L	0.005	EPA 200.7	10/9/19	10/11/19	
Selenium, Total	0.0029	mg/L	0.0005	EPA 200.8	10/9/19	10/11/19	
Silver, Total	ND	mg/L	0.0005	EPA 200.8	10/9/19	10/11/19	
Zinc, Total	0.04	mg/L	0.01	EPA 200.7	10/9/19	10/11/19	



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## Certificate of Analysis

Payson City WWTP  
Jeff Hiatt  
439 West Utah Avenue  
Payson, UT 84651

PO#:  
Receipt: 10/8/19 14:55 @ 3.1 °C  
Date Reported: 10/17/2019  
Project Name: Quarterly Metals

Sample ID: Influent Grab

Matrix: Wastewater

Sample Type: Composite

Lab ID: 19J0484-02

Date Sampled: 10/8/19 7:15

Sampled By: Phillip Lundell

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Metals</b>							
Arsenic, Total	ND	mg/L	0.05	EPA 200.7	10/9/19	10/10/19	
Cadmium, Total	ND	mg/L	0.0002	EPA 200.8	10/9/19	10/11/19	
Chromium, Total	ND	mg/L	0.005	EPA 200.7	10/9/19	10/10/19	
Copper, Total	0.035	mg/L	0.005	EPA 200.7	10/9/19	10/10/19	
Lead, Total	0.0007	mg/L	0.0005	EPA 200.8	10/9/19	10/11/19	
Mercury, Total	ND	mg/L	0.00020	EPA 245.1	10/9/19	10/11/19	
Molybdenum, Total	ND	mg/L	0.01	EPA 200.7	10/9/19	10/10/19	
Nickel, Total	ND	mg/L	0.005	EPA 200.7	10/9/19	10/10/19	
Selenium, Total	0.0030	mg/L	0.0005	EPA 200.8	10/9/19	10/11/19	
Silver, Total	ND	mg/L	0.0005	EPA 200.8	10/9/19	10/11/19	
Zinc, Total	0.03	mg/L	0.01	EPA 200.7	10/9/19	10/10/19	



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## Certificate of Analysis

Payson City WWTP  
Jeff Hiatt  
439 West Utah Avenue  
Payson, UT 84651

PO#:  
Receipt: 10/8/19 14:55 @ 3.1 °C  
Date Reported: 10/17/2019  
Project Name: Quarterly Metals

Sample ID: Effluent Composite

Matrix: Wastewater

Sample Type: Composite

Lab ID: 19J0484-03

Date Sampled: 10/8/19 7:25

Sampled By: Phillip Lundell

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Metals</b>							
Arsenic, Total	ND	mg/L	0.05	EPA 200.7	10/9/19	10/10/19	
Cadmium, Total	ND	mg/L	0.0002	EPA 200.8	10/9/19	10/11/19	
Chromium, Total	ND	mg/L	0.005	EPA 200.7	10/9/19	10/10/19	
Copper, Total	0.009	mg/L	0.005	EPA 200.7	10/9/19	10/10/19	
Lead, Total	ND	mg/L	0.0005	EPA 200.8	10/9/19	10/11/19	
Mercury, Total	ND	mg/L	0.00020	EPA 245.1	10/9/19	10/11/19	
Molybdenum, Total	ND	mg/L	0.01	EPA 200.7	10/9/19	10/10/19	
Nickel, Total	ND	mg/L	0.005	EPA 200.7	10/9/19	10/10/19	
Selenium, Total	0.0021	mg/L	0.0005	EPA 200.8	10/9/19	10/11/19	
Silver, Total	ND	mg/L	0.0005	EPA 200.8	10/9/19	10/11/19	
Zinc, Total	0.03	mg/L	0.01	EPA 200.7	10/9/19	10/10/19	





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## Certificate of Analysis

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Jeff Hiatt  
439 West Utah Avenue  
Payson, UT 84651

PO#:  
Receipt: 10/8/19 14:55 @ 3.1 °C  
Date Reported: 10/17/2019  
Project Name: Quarterly Metals

Sample ID: Effluent Grab

Matrix: Wastewater

Sample Type: Composite

Lab ID: 19J0484-04

Date Sampled: 10/8/19 7:30

Sampled By: Phillip Lundell

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Metals</b>							
Arsenic, Total	ND	mg/L	0.05	EPA 200.7	10/9/19	10/10/19	
Cadmium, Total	ND	mg/L	0.0002	EPA 200.8	10/9/19	10/11/19	
Chromium, Total	ND	mg/L	0.005	EPA 200.7	10/9/19	10/10/19	
Copper, Total	0.010	mg/L	0.005	EPA 200.7	10/9/19	10/10/19	
Lead, Total	ND	mg/L	0.0005	EPA 200.8	10/9/19	10/11/19	
Mercury, Total	ND	mg/L	0.00020	EPA 245.1	10/9/19	10/11/19	
Molybdenum, Total	ND	mg/L	0.01	EPA 200.7	10/9/19	10/10/19	
Nickel, Total	ND	mg/L	0.005	EPA 200.7	10/9/19	10/10/19	
Selenium, Total	0.0022	mg/L	0.0005	EPA 200.8	10/9/19	10/11/19	
Silver, Total	ND	mg/L	0.0005	EPA 200.8	10/9/19	10/11/19	
Zinc, Total	0.03	mg/L	0.01	EPA 200.7	10/9/19	10/10/19	



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### Certificate of Analysis

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Payson City WWTP  
Jeff Hiatt  
439 West Utah Avenue  
Payson, UT 84651

PO#:  
Receipt: 10/8/19 14:55 @ 3.1 °C  
Date Reported: 10/17/2019  
Project Name: **Quarterly Metals**

---

### Report Footnotes

#### Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit (MRL).

1 mg/L = one milligram per liter or 1 mg/kg = one milligram per kilogram = 1 part per million.

1 ug/L = one microgram per liter or 1 ug/kg = one microgram per kilogram = 1 part per billion.

1 ng/L = one nanogram per liter or 1 ng/kg = one nanogram per kilogram = 1 part per trillion.

**CHEMTECH - FORD ANALYTICAL LABORATORY**

COMPANY: Payson WWTP

ADDRESS: 439 West Utah Avenue

CITY/STATE/ZIP: Payson, UT 84651

PHONE #: (801) 465-5277 FAX: (801) 465-5280

CONTACT: Jeff Hiatt

PROJECT: Quarterly Metals

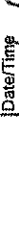



## CHAIN OF CUSTODY

**PRESERVATION:**

Unpreserved 1/2 Gallon: BOD, Nitrate, Nitrite, Settleable Solids, TSS, TDS, Dissolved Phosphorus  
Nutrient Pint (H<sub>2</sub>SO<sub>4</sub>): Ammonia, Total Phosphorus, TKN  
O&G Glass Quart (HCl): Oil & Grease  
*Sludge samples are unpreserved.*  
☐ Mark 'X' here if you want a copy sent to DEQ Division of Drinking Water.

[illegible]

**Special instructions:**

Relinquished by: [signature]	Date/Time	Received by: [signature]	Date/Time
	10/8/19 750		10/8/19 10:30
Relinquished by: [signature]	Date/Time	Received by: [signature]	Date/Time
	10/8/19 14:55		10/8/19 1455
Relinquished by: [signature]	Date/Time	Received by: [signature]	Date/Time

**CHEMTECH-FORD**  
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WHITE: Original YELLOW: File PINK: Customer  
www.chemtechford.com

Work Order # J0434

## Sample Receipt

**Delivery Method:**

- ☐ UPS      ☐ USPS  
☐ FedEx      ☒ Chemtech Courier  
☐ Walk-in      ☐ Customer Courier

Receiving Temperature 3.1 °C[illegible]



1/23/2019

**Work Order: 19A0621**  
**Project: Quarterly Metals**

**Payson City WWTP**  
**Attn: Jeff Hiatt**  
**439 West Utah Avenue**  
**Payson, UT 84651**

**Client Service Contact: 801.262.7299**

The analyses presented on this report were performed in accordance with the National Environmental Laboratory Accreditation Program (NELAP) unless noted in the comments, flags, or case narrative. If the report is to be used for regulatory compliance, it should be presented in its entirety, and not be altered.



Approved By:

Mark Broadhead, Project Manager



# Chemtech-Ford Laboratories

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9632 South 500 West  
Sandy, UT 84070  
O: (801) 262-7299 F: (866) 792-0093  
[www.ChemtechFord.com](http://www.ChemtechFord.com)



## Certificate of Analysis

Payson City WWTP  
Jeff Hiatt  
439 West Utah Avenue  
Payson, UT 84651

PO#:  
Receipt: 1/15/19 14:30 @ 4.1 °C  
Date Reported: 1/23/2019  
Project Name: Quarterly Metals

Sample ID: Influent Composite

Matrix: Wastewater

Sample Type: Composite

Lab ID: 19A0621-01

Date Sampled: 1/15/19 7:25

Sampled By: Kyle Anderson

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Metals</b>							
Arsenic, Total	ND	mg/L	0.05	EPA 200.7	1/15/19	1/17/19	
Cadmium, Total	ND	mg/L	0.0002	EPA 200.8	1/15/19	1/16/19	
Chromium, Total	ND	mg/L	0.005	EPA 200.7	1/15/19	1/17/19	
Copper, Total	0.033	mg/L	0.005	EPA 200.7	1/15/19	1/17/19	
Lead, Total	0.0005	mg/L	0.0005	EPA 200.8	1/15/19	1/17/19	
Molybdenum, Total	ND	mg/L	0.01	EPA 200.7	1/15/19	1/17/19	
Nickel, Total	ND	mg/L	0.005	EPA 200.7	1/15/19	1/17/19	
Selenium, Total	0.0033	mg/L	0.0005	EPA 200.8	1/15/19	1/16/19	
Silver, Total	ND	mg/L	0.0005	EPA 200.8	1/15/19	1/16/19	
Zinc, Total	ND	mg/L	0.01	EPA 200.7	1/15/19	1/17/19	



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## Certificate of Analysis

Payson City WWTP  
Jeff Hiatt  
439 West Utah Avenue  
Payson, UT 84651

PO#:  
Receipt: 1/15/19 14:30 @ 4.1 °C  
Date Reported: 1/23/2019  
Project Name: Quarterly Metals

Sample ID: Influent Grab

Matrix: Wastewater

Sample Type: Grab

Lab ID: 19A0621-02

Date Sampled: 1/15/19 7:28

Sampled By: Kyle Anderson

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Inorganic</b>							
Cyanide, Total	0.005	mg/L	0.002	SM 4500 CN-E	1/18/19	1/22/19	



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## Certificate of Analysis

Payson City WWTP  
Jeff Hiatt  
439 West Utah Avenue  
Payson, UT 84651

PO#:  
Receipt: 1/15/19 14:30 @ 4.1 °C  
Date Reported: 1/23/2019  
Project Name: Quarterly Metals

Sample ID: Effluent Composite

Matrix: Wastewater

Sample Type: Composite

Lab ID: 19A0621-03

Date Sampled: 1/15/19 7:32

Sampled By: Kyle Anderson

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Metals</b>							
Arsenic, Total	ND	mg/L	0.05	EPA 200.7	1/15/19	1/18/19	
Cadmium, Total	ND	mg/L	0.0002	EPA 200.8	1/15/19	1/16/19	
Chromium, Total	ND	mg/L	0.005	EPA 200.7	1/15/19	1/18/19	
Copper, Total	0.007	mg/L	0.005	EPA 200.7	1/15/19	1/18/19	
Lead, Total	ND	mg/L	0.0005	EPA 200.8	1/15/19	1/16/19	
Molybdenum, Total	ND	mg/L	0.01	EPA 200.7	1/15/19	1/18/19	
Nickel, Total	ND	mg/L	0.005	EPA 200.7	1/15/19	1/18/19	
Selenium, Total	0.0020	mg/L	0.0005	EPA 200.8	1/15/19	1/16/19	
Silver, Total	ND	mg/L	0.0005	EPA 200.8	1/15/19	1/16/19	
Zinc, Total	ND	mg/L	0.01	EPA 200.7	1/15/19	1/18/19	





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## Certificate of Analysis

Payson City WWTP  
Jeff Hiatt  
439 West Utah Avenue  
Payson, UT 84651

PO#:  
Receipt: 1/15/19 14:30 @ 4.1 °C  
Date Reported: 1/23/2019  
Project Name: Quarterly Metals

Sample ID: Effluent Grab

Matrix: Wastewater

Sample Type: Grab

Lab ID: 19A0621-04

Date Sampled: 1/15/19 7:30

Sampled By: Kyle Anderson

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Inorganic</b>							
Cyanide, Total	0.003	mg/L	0.002	SM 4500 CN-E	1/18/19	1/22/19	



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---

### Certificate of Analysis

---

Payson City WWTP  
Jeff Hiatt  
439 West Utah Avenue  
Payson, UT 84651

PO#:  
Receipt: 1/15/19 14:30 @ 4.1 °C  
Date Reported: 1/23/2019  
Project Name: Quarterly Metals

---

### Report Footnotes

#### Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit (MRL).

1 mg/L = one milligram per liter or 1 mg/kg = one milligram per kilogram = 1 part per million.

1 ug/L = one microgram per liter or 1 ug/kg = one microgram per kilogram = 1 part per billion.

1 ng/L = one nanogram per liter or 1 ng/kg = one nanogram per kilogram = 1 part per trillion.

## CHAIN OF CUSTODY

**DAVIDSON**

439 West Utah Avenue

Payson, UT 84651

(801) 465-5277 FAX:

10/11/11

## Heavy Metals

Unpreserved 1/2 Gallon: BOD, Nitrate, Nitrite, Setttable Solids, TSS, TDS, Dissolved Phosphorus  
Nutrient Pint (H<sub>2</sub>SO<sub>4</sub>): Ammonia, Total Phosphorus, TKN

O&amp;G Glass Quart (HCl): Oil &amp; Grease

Sludge samples are unpreserved.

☐ Mark "X" here if you want a copy sent to DEQ Division of Drinking Water.[illegible]

**Special instructions:**

Relinquished by: [signature]	Date/Time	Received by: [signature]	Date/Time
<i>John Anderson</i>	1-5-19/7:45	<i>Errol Jones</i>	1/5/19 10:10
Relinquished by: [signature]	Date/Time	Received by: [signature]	Date/Time
<i>Errol Jones</i>	1/5/19 1430	<i>Errol Jones</i>	1/5/19 1430
Relinquished by: [signature]	Date/Time	Received by: [signature]	Date/Time

[www.chemtechford.com](http://www.chemtechford.com)

# Sample Receipt

Work Order # 1702

**Delivery Method:**

- ☐ UPS      ☐ USPS  
☐ FedEx      ☒ Chemtech Courier  
☐ Walk-in      ☐ Customer Courier

Receiving Temperature 4.1 °C

**CHEMTECH-FORD  
LABORATORIES**

Sample Condition (check if yes)
<input type="checkbox"/> Custody Seals
<input checked="" type="checkbox"/> Containers Intact
<input checked="" type="checkbox"/> CDC/Labels Agree
<input checked="" type="checkbox"/> Preservation Confirmed
<input type="checkbox"/> Received on Ice
<input checked="" type="checkbox"/> Correct Container(s)
<input checked="" type="checkbox"/> Sufficient Sample Volume
<input type="checkbox"/> Headspace Present (VOC)
<input type="checkbox"/> Temperature Blank
<input checked="" type="checkbox"/> Received within Holding Time

## Plastic Containers

- A- Plastic Unpreserved
- B- Miscellaneous Plastic
- C- Cyanide Qt (NaOH)
- E- Coliform/Total/HPC
- F- Sulfide Qt (Zn Acetate)
- I- Mercury 1831
- M- Metal Pint (HNO3)
- N- Nutrient Pint (H2SO4)
- R- Radiological (HNO3)
- S- Sludge Cups/Tubs
- Q- Plastic Bag

## Glass Containers

D-625 (Na2CO3)	G-Glass Unpreserved
J-H-5042 (Na2CO3)	J-H-5042 (Na2CO3)
K-515.3 Herbicides	K-515.3 Herbicides
O-Oil & Grease (HCl)	O-Oil & Grease (HCl)
P-Phenol (H2SO4)	P-Phenol (H2SO4)
T-TOC/TOX (HBrO4)	T-TOC/TOX (HBrO4)
U-531 (MCA, Na2S2O3)	U-531 (MCA, Na2S2O3)
V-524/THMS (Ascorbic Acid)	V-524/THMS (Ascorbic Acid)
W-3260 VOC (2:1 HCl)	W-3260 VOC (2:1 HCl)
X-Vial Unpreserved	X-Vial Unpreserved
Y-624/504 (Na2S2O3)	Y-624/504 (Na2S2O3)
Z-Microleakage Glass	Z-Microleakage Glass

[illegible]



## Boilerplate Information on BOD Violations on April 2022



On 4/20/2022 at 12:00 pm Ned Stephensen saw a weird aqua blue color in the influent flow.

Sample was taken at 12:05. I Phillip Lundell got in my truck, Casey Fannin and Ashton Baker got in another truck and we tried to track down where this was being discharged from. We found that it was coming from the West side line but could not trace it down any further as when we pulled most the manholes from here to 800 s 1040 w and we could not determine where it was being discharged from. We stopped in at PFG, Cornabys, Liberty Safe, Intermountain nutrition and PPC, looked at their effluents and determined that is was not coming from any of them. From there we checked as many downstream manholes from other businesses to see if we could find it. We could not determine where it was coming from.

Getting back at 1:30 Pm from checking the influent still had some of the color left and a noticeable sheen on it a sample was pulled to be ran for pollutants at that time. At this point Tyler Lowe had checked the Sand Filter building and the buildings water was noticeably darker than it should be. At 2:00 Pm the influent and turned back to regular color.

Phillip Lundell

Pretreatment Coordinator

Payson, Utah

## 4/20/2022 Illicit Discharge

### 4/20/2022

12:00 pm Ned discovered influent was weird color.

12:05 pm Sample taken BOD, TSS

12:05- 1:30 pm Phil- Truck Casey, Ashton- Truck

We tried to track down where this was being discharged from. We found that it was coming from the West side line but could not trace it down any further. We split up and pulled most the manholes from here to 800 s 1040 w and we could not determine where it was being discharged from. From there we stopped in at PFG, Cornabys, Sabinsa, Liberty Safe, Intermountain nutrition, the marijuana grower and PPC, looked at their effluents and determined that it was not coming from any of them. Intermountain even had the truck there taking the process water and the water I thought for sure that we were going to catch them dumping but they were not it was clear water and was hauled off. Their lift station was also just the color of sanitary sewer. From there we checked as many downstream manholes from other businesses to see if we could find it. I called West mountain Vet office at 1:38 pm to see if they had any surgeries done that could have placed that color in and they had not done anything where they would have discharged.

Also made phone calls to Lance – PPC 12:43 pm, Quinn – Liberty Safe 12:23 pm, Kylara – PFG 12:27 pm

1:30 pm Sample taken. BOD, TSS, Metals, Ammonia, Oil and Grease

2:00 pm Influent back to normal color.

2:03 pm Phil called Jennifer to let her know about this illicit discharge and discuss it with her.

### 4/21/2022

Morning – Phil driving around pulling manholes again to see if he could find anything. Nothing was found.

Tyler tried to call Dan Griffin with no answer, Left message 8:05 am

### 4/25/2022

Tyler tried to call Dan Griffin with no answer 9:27 am and 12:02 pm

Phil made a post in Groups.io Pretreatment group with pictures and what happened. Asking for any knowledge or thoughts on what happened. Most people came back with that it could be someone dumping Copper Sulfate or a waste hauler dumping porta potty waste somewhere in the system.

Went back out to Intermountain nutrition with Kyle at 8:14 am to check their lift station again and look at the color.

Got a hold of Chevron and Fast gas to see if they had any cameras on their RV dump stations. Fast gas had video. They went through it and no one had dumped from 4/19-20 at noon. Chevron when I stopped and talked to them. They said that there cameras were pointed towards their drive through and not towards the RV dump so they would not have any footage.

#### **4/26/2022**

Tyler tried to call Dan Griffin with no answer 8:13 am

Jeff Hiatt emailed Dan Griffin at 8:22 am about the illicit discharge

#### **4/27/2022**

Phil went out from 9:30-10:45 am to pull manholes to make sure that this was not going to be a habitual event on Wednesdays. Also checked influent at 12:00 pm

#### **4/28/2022**

Phil called Steve Spencer 8:25 am, Karl Teemant 8:37 am and Greg Madsen at 1:59 pm Asked them if they had any Copper Sulfate and if they did if they had used it. None of them had any Copper Sulfate or had used it.

Tyler called Westen Barney 9:00 am to see if they had done anything on the 20<sup>th</sup> that would come to the plant and he stated that they had not. The only thing they had done in the last while was on the 27<sup>th</sup> Lake shore pumping pumped out one of the parks bathrooms.

Dan Griffin called Tyler to discuss illicit discharge 8:13 am

Phil Called Jennifer Robinson again at 1:11 pm and discussed everything that we have done so far with this illicit discharge to fill her in.





473 mL

Field Id (Location):

Sample Date Time:

Client:



Ap - Plain Pint Plastic Lot: 1161





5/3/2022

**Work Order: 22D1532**  
**Project: Reuse Daily Sampling**

**Payson City WWTP**  
**Attn: Jeff Hiatt**  
**439 West Utah Avenue**  
**Payson, UT 84651**

**Client Service Contact: 801.262.7299**

The analyses presented on this report were performed in accordance with the National Environmental Laboratory Accreditation Program (NELAP) unless noted in the comments, flags, or case narrative. If the report is to be used for regulatory compliance, it should be presented in its entirety, and not be altered.



Approved By:

Mark Broadhead, Project Manager



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## Certificate of Analysis

Payson City WWTP  
Jeff Hiatt  
439 West Utah Avenue  
Payson, UT 84651

PO#:  
Receipt: 4/21/22 15:20 @ 8.3 °C  
Date Reported: 5/3/2022  
Project Name: Reuse Daily Sampling

Sample ID: Influent Grab

Matrix: Wastewater

Sample Type: Grab

Lab ID: 22D1532-01

Date Sampled: 4/20/22 13:30

Sampled By: Phillip Lundell

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Inorganic</b>							
Ammonia as N	33.3	mg/L	2.0	SM 4500 NH3 H	4/27/22	4/28/22	
Biochemical Oxygen Demand	254	mg/L	5	SM 5210 B	4/21/22 18:26	4/26/22 13:32	
Oil & Grease (HEM)	22	mg/L	5	EPA 1664A	4/25/22	4/25/22	
Total Kjeldahl Nitrogen	47.2	mg/L	5.3	SM 4500 Norg	4/22/22	4/25/22	
Total Suspended Solids (TSS)	314	mg/L	20	SM 2540 D	4/25/22	4/25/22	
<b>Metals</b>							
Arsenic, Total	ND	mg/L	0.05	EPA 200.7	4/26/22	4/27/22	
Cadmium, Total	0.0003	mg/L	0.0002	EPA 200.8	4/22/22	4/25/22	
Chromium, Total	ND	mg/L	0.005	EPA 200.7	4/26/22	4/27/22	
Copper, Total	0.036	mg/L	0.005	EPA 200.7	4/26/22	4/27/22	
Lead, Total	0.0010	mg/L	0.0005	EPA 200.8	4/22/22	4/25/22	
Molybdenum, Total	ND	mg/L	0.01	EPA 200.7	4/26/22	4/27/22	
Nickel, Total	ND	mg/L	0.005	EPA 200.7	4/26/22	4/27/22	
Selenium, Total	0.0022	mg/L	0.0005	EPA 200.8	4/22/22	4/25/22	
Silver, Total	ND	mg/L	0.0005	EPA 200.8	4/22/22	4/25/22	
Zinc, Total	0.12	mg/L	0.01	EPA 200.7	4/26/22	4/27/22	



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## Certificate of Analysis

Payson City WWTP  
Jeff Hiatt  
439 West Utah Avenue  
Payson, UT 84651

PO#:  
Receipt: 4/21/22 15:20 @ 8.3 °C  
Date Reported: 5/3/2022  
Project Name: Reuse Daily Sampling

Sample ID: Influent Grab

Matrix: Wastewater

Sample Type: Grab

Lab ID: 22D1532-02

Date Sampled: 4/20/22 12:05

Sampled By: Phillip Lundell

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Inorganic</b>							
Biochemical Oxygen Demand	277	mg/L	5	SM 5210 B	4/21/22 18:26	4/26/22 13:33	
Total Suspended Solids (TSS)	170	mg/L	20	SM 2540 D	4/25/22	4/25/22	



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---

### Certificate of Analysis

---

Payson City WWTP  
Jeff Hiatt  
439 West Utah Avenue  
Payson, UT 84651

PO#:  
Receipt: 4/21/22 15:20 @ 8.3 °C  
Date Reported: 5/3/2022  
Project Name: Reuse Daily Sampling

---

### Report Footnotes

#### Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit (MRL).

1 mg/L = one milligram per liter or 1 mg/kg = one milligram per kilogram = 1 part per million.

1 ug/L = one microgram per liter or 1 ug/kg = one microgram per kilogram = 1 part per billion.

1 ng/L = one nanogram per liter or 1 ng/kg = one nanogram per kilogram = 1 part per trillion.

# CHEMTECH - FORD ANALYTICAL LABORATORY

COMPANY: Payson WWTP  
 ADDRESS: 439 West Utah Avenue  
 CITY/STATE/ZIP: Payson, UT 84651  
 PHONE #: (801) 465-5277 FAX: (801) 465-5280  
 CONTACT: Jeff Hiatt (801.404.6455) or Tyler Lowe (801.404.9992)  
 PROJECT: Reuse daily sampling

## Sample Receipt:

( ) Custody Seals ( ) COC Complete  
 ( ) Containers Intact ( ) Sample Volume OK  
 ( ) COC/Labels Linked ( ) Headspace Present (VOC)  
 ( ) Received on Ice ( ) Temp Blank  
 ( ) Correct Containers ( ) Within Hold Time  
 ( ) COC Included Checked by: QA

PRESERVATION:  
 Unpreserved \*  
 Nutrient Print (i)  
 O&G Glass Q  
 Sludge sample  
☐ Mark 'X' for

1-AG1183  
 N 1158  
 M 1168  
 O 113

2 AP 1161

22D1532

LAB ID#		SAMPLE LOCATION	START DATE	END DATE	SAMPLE TIME	ANALYTICAL TESTS REQUESTED	
1.	22D1532	Drinking Water	4/20/22	1:30pm			
2.	22D1532	Drinking Water	4/20/22	1:30pm			
3.	22D1532	Drinking Water	4/20/22	1:30pm			
4.							
5.							
6.							
7.							
8.							
9.							
10.							

Number of Containers: 4

Drinking Water: Waste Water

Water: Ground Water

Soil: Other Solid

Sludge (Solid): Sludge (Liquid)

Oil: Solvent

Other (Specify):

Ammonia-N: X

BOD: X

Nitrate: X

pH: X

Settleable Solids: X

Dissolved Oxygen: X

TKN: X

Metals: X

Oil & Grease: X

Total Solids: X

Alkalinity: X

pH: X

Metals: Arsenic, Cadmium, Chromium, Copper, Lead, Molybdenum, Nickel, Selenium, Silver, Zinc

ON ICE 8.3 NOT ON ICE

Sampled by: (print) Philip Lytle

Special Instructions:

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
<u>[Signature]</u>	4/20/22 1430	<u>[Signature]</u>	4/21/22 10:45
<u>[Signature]</u>	4/21/22 15:00	<u>[Signature]</u>	4/21/22 15:00
<u>[Signature]</u>		<u>[Signature]</u>	



On 4/20/2022 at 12:00 pm Ned Stephensen saw a weird aqua blue color in the influent flow.

Sample was taken at 12:05. I Phillip Lundell got in my truck, Casey Fannin and Ashton Baker got in another truck and we tried to track down where this was being discharged from. We found that it was coming from the West side line but could not trace it down any further as when we pulled most the manholes from here to 800 s 1040 w and we could not determine where it was being discharged from. We stopped in at PFG, Cornabys, Liberty Safe, Intermountain nutrition and PPC, looked at their effluents and determined that it was not coming from any of them. From there we checked as many downstream manholes from other businesses to see if we could find it. We could not determine where it was coming from.

Getting back at 1:30 Pm from checking the influent still had some of the color left and a noticeable sheen on it a sample was pulled to be ran for pollutants at that time. At this point Tyler Lowe had checked the Sand Filter building and the buildings water was noticeably darker than it should be. At 2:00 Pm the influent and turned back to regular color.

Phillip Lundell

Pretreatment Coordinator

Payson, Utah



## Information on Mercury Violations from 2021-2023





1/27/2021

**Work Order: 21A0847**  
**Project: UPDES Permit Sampling**

**Payson City WWTP**  
**Attn: Jeff Hiatt**  
**439 West Utah Avenue**  
**Payson, UT 84651**

**Client Service Contact: 801.262.7299**

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Approved By:

Mark Broadhead, Project Manager



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Sandy, UT 84070  
O: (801) 262-7299 F: (866) 792-0093  
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## Certificate of Analysis

Payson City WWTP  
Jeff Hiatt  
439 West Utah Avenue  
Payson, UT 84651

PO#:  
Receipt: 1/19/21 14:25 @ 6.1 °C  
Date Reported: 1/27/2021  
Project Name: UPDES Permit Sampling

Sample ID: Influent - Monthly Composite

Matrix: Wastewater

Sample Type: Composite

Lab ID: 21A0847-01

Date Sampled: 1/19/21 7:05

Sampled By: Phillip Lundell

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Inorganic</b>							
Biochemical Oxygen Demand	169	mg/L	5	SM 5210 B	1/20/21 7:40	1/25/21 8:27	
Phosphorus, Total as P	6.8	mg/L	0.20	SM 4500 P-E/F	1/20/21	1/20/21	
Total Kjeldahl Nitrogen	43.4	mg/L	5.3	SM 4500 Norg	1/21/21	1/21/21	
Total Suspended Solids (TSS)	81	mg/L	10	SM 2540 D	1/19/21	1/19/21	



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## Certificate of Analysis

Payson City WWTP  
Jeff Hiatt  
439 West Utah Avenue  
Payson, UT 84651

PO#:  
Receipt: 1/19/21 14:25 @ 6.1 °C  
Date Reported: 1/27/2021  
Project Name: UPDES Permit Sampling

Sample ID: Effluent Monthly - Composite

Matrix: Wastewater

Sample Type: Composite

Lab ID: 21A0847-02

Date Sampled: 1/19/21 7:00

Sampled By: Phillip Lundell

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Inorganic</b>							
Ammonia as N	12.3	mg/L	0.4	SM 4500 NH3 H	1/22/21	1/24/21	
Biochemical Oxygen Demand	8	mg/L	5	SM 5210 B	1/20/21 7:40	1/25/21 8:28	
Cyanide, Total	0.021	mg/L	0.002	SM 4500 CN-E	1/25/21	1/25/21	
Nitrate as N	11.3	mg/L	0.5	EPA 300.0	1/19/21 18:35	1/19/21 18:35	
Nitrite as N	1.8	mg/L	0.2	SM 4500 NO2-B	1/20/21 10:10	1/20/21 10:57	
Phosphate, ortho as P	3.7	mg/L	0.10	SM 4500 P-E	1/20/21 13:25	1/20/21 14:10	
Phosphorus, Total as P	5.3	mg/L	0.20	SM 4500 P-E/F	1/20/21	1/20/21	
Total Kjeldahl Nitrogen	14.8	mg/L	1.0	SM 4500 Norg	1/21/21	1/21/21	
Total Suspended Solids (TSS)	4	mg/L	4	SM 2540 D	1/19/21	1/19/21	
<b>Metals</b>							
Selenium, Total	0.0006	mg/L	0.0005	EPA 200.8	1/21/21	1/22/21	



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PO#:  
Receipt: 1/19/21 14:25 @ 6.1 °C  
Date Reported: 1/27/2021  
Project Name: UPDES Permit Sampling

Sample ID: Effluent Sample - Grab

Matrix: Wastewater

Sample Type: Grab

Lab ID: 21A0847-03

Date Sampled: 1/19/21 7:00

Sampled By: Phillip Lundell

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Metals</b>							
Mercury, Total	5.0	ng/L	0.5	EPA 1631	1/21/21	1/22/21	



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PO#:  
Receipt: 1/19/21 14:25 @ 6.1 °C  
Date Reported: 1/27/2021  
Project Name: UPDES Permit Sampling

Sample ID: Effluent Blank

Matrix: Wastewater

Sample Type: Grab

Lab ID: 21A0847-04

Date Sampled: 1/19/21 7:00

Sampled By: Phillip Lundell

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Metals</b>							
Mercury, Total	1.6	ng/L	0.5	EPA 1631	1/21/21	1/22/21	



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PO#:  
Receipt: 1/19/21 14:25 @ 6.1 °C  
Date Reported: 1/27/2021  
Project Name: UPDES Permit Sampling

Sample ID: Influent Sample - Grab

Matrix: Wastewater

Sample Type: Grab

Lab ID: 21A0847-05

Date Sampled: 1/19/21 7:05

Sampled By: Phillip Lundell

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Metals</b>							
Mercury, Total	12.8	ng/L	0.5	EPA 1631	1/21/21	1/22/21	



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PO#:  
Receipt: 1/19/21 14:25 @ 6.1 °C  
Date Reported: 1/27/2021  
Project Name: UPDES Permit Sampling

---

### Report Footnotes

#### Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit (MRL).

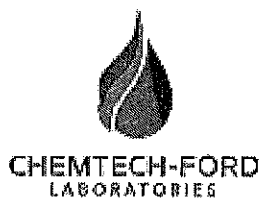
1 mg/L = one milligram per liter or 1 mg/kg = one milligram per kilogram = 1 part per million.

1 ug/L = one microgram per liter or 1 ug/kg = one microgram per kilogram = 1 part per billion.

1 ng/L = one nanogram per liter or 1 ng/kg = one nanogram per kilogram = 1 part per trillion.

## Page 8 of 8





1/14/2022

**Work Order: 22A0262**  
**Project: UPDES Permit Sampling**

**Payson City WWTP**  
**Attn: Jeff Hiatt**  
**439 West Utah Avenue**  
**Payson, UT 84651**

**Client Service Contact: 801.262.7299**

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Approved By:

Mark Broadhead, Project Manager



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Payson, UT 84651

PO#:  
Receipt: 1/6/22 14:30 @ 6.6 °C  
Date Reported: 1/14/2022  
Project Name: UPDES Permit Sampling

Sample ID: Influent Composite

Matrix: Wastewater

Sample Type: Composite

Lab ID: 22A0262-01

Date Sampled: 1/6/22 6:10

Sampled By: Phillip Lundell

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Inorganic</b>							
Biochemical Oxygen Demand	260	mg/L	5	SM 5210 B	1/6/22 15:04	1/11/22 13:36	BOD-BL
Total Kjeldahl Nitrogen	47.4	mg/L	5.0	SM 4500 Norg	1/7/22	1/10/22	
Total Suspended Solids (TSS)	196	mg/L	20	SM 2540 D	1/6/22	1/6/22	
<b>Metals</b>							
Phosphorus, Total as P	7.3	mg/L	0.01	EPA 200.7	1/6/22	1/10/22	



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Payson, UT 84651

PO#:  
Receipt: 1/6/22 14:30 @ 6.6 °C  
Date Reported: 1/14/2022  
Project Name: UPDES Permit Sampling

Sample ID: Effluent Composite

Matrix: Wastewater

Sample Type: Composite

Lab ID: 22A0262-02

Date Sampled: 1/6/22 6:20

Sampled By: Phillip Lundell

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Inorganic</b>							
Ammonia as N	9.2	mg/L	0.4	SM 4500 NH3 H	1/10/22	1/10/22	
Biochemical Oxygen Demand	ND	mg/L	5	SM 5210 B	1/6/22 15:04	1/11/22 13:37	BOD-BL
Cyanide, Total	0.007	mg/L	0.002	SM 4500 CN-E	1/7/22	1/7/22	
Nitrate as N	9.4	mg/L	0.1	EPA 300.0	1/6/22 13:05	1/7/22 0:04	
Nitrite as N	0.8	mg/L	0.1	SM 4500 NO2-B	1/6/22 15:31	1/6/22 16:03	
Phosphate, ortho as P	4.6	mg/L	0.20	SM 4500 P-E	1/6/22 15:18	1/6/22 15:53	
Total Kjeldahl Nitrogen	10.0	mg/L	1.0	SM 4500 Norg	1/7/22	1/10/22	
Total Suspended Solids (TSS)	6	mg/L	4	SM 2540 D	1/6/22	1/6/22	
<b>Metals</b>							
Phosphorus, Total as P	5.5	mg/L	0.01	EPA 200.7	1/6/22	1/10/22	
Selenium, Total	0.0009	mg/L	0.0005	EPA 200.8	1/6/22	1/7/22	



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PO#:  
Receipt: 1/6/22 14:30 @ 6.6 °C  
Date Reported: 1/14/2022  
Project Name: UPDES Permit Sampling

Sample ID: Effluent Grab - Sample

Matrix: Wastewater

Sample Type: Grab

Lab ID: 22A0262-03

Date Sampled: 1/6/22 6:25

Sampled By: Phillip Lundell

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Metals</b>							
Mercury, Total	2.7	ng/L	1.0	EPA 1631	1/10/22	1/10/22	



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PO#:  
Receipt: 1/6/22 14:30 @ 6.6 °C  
Date Reported: 1/14/2022  
Project Name: UPDES Permit Sampling

Sample ID: Effluent Grab - Blank

Matrix: Wastewater

Sample Type: Grab

Lab ID: 22A0262-04

Date Sampled: 1/6/22 6:25

Sampled By: Phillip Lundell

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Metals</b>							
Mercury, Total	1.1	ng/L	1.0	EPA 1631	1/10/22	1/10/22	



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PO#:  
Receipt: 1/6/22 14:30 @ 6.6 °C  
Date Reported: 1/14/2022  
Project Name: UPDES Permit Sampling

---

### Report Footnotes

#### Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit (MRL).

1 mg/L = one milligram per liter or 1 mg/kg = one milligram per kilogram = 1 part per million.

1 ug/L = one microgram per liter or 1 ug/kg = one microgram per kilogram = 1 part per billion.

1 ng/L = one nanogram per liter or 1 ng/kg = one nanogram per kilogram = 1 part per trillion.

#### Flag Descriptions

BOD-BL = Of the two dilution blanks that were set up with the batch, one slightly failed the maximum depletion criteria. Because the other blank passed, it was determined that the dilution water was not compromised. The BOD results are not adversely affected.

### Sample Receipt

( ) Custody Seals  
☒ Containers Intact  
☒ COC/Labels Linked  
☒ Received on Ice  
☒ Correct Containers  
☒ COC Included

☒ COC Complete  
☒ Sample Volume OK  
☐ Headspace Present (VOC)  
                 ( ) Temp Blank  
☒ Within Hold Time

Checked by: DFA

**PRESERVA**  
Unpreserved  
Nutrient Pints  
O&G Glass  
Sludge sample  
Mark "X" h

COMPANY:	Payson WWTP
ADDRESS:	439 West Utah Avenue
CITY/STATE/ZIP:	Payson, UT 84651
PHONE #:	(801) 465-5277 FAX: (801) 465-5280
CONTACT:	Jeff Hiatt (801.404.6455) or Tyler Lowe (801.404.9992)
PROJECT:	UPDES Permit Sampling

Checked by: AK

Sludge sample

**UPDES Permit Sampling**

22A0762

[illegible]

**Special instructions:**

Relinquished by: [signature]	Date/Time 4/6/22 10:50	Received by: [signature]	Date/Time 4/6/22 10:50
Relinquished by: [signature]	Date/Time 4/6/22 14:30	Received by: [signature]	Date/Time 4/6/22 14:30
Relinquished by: [signature]	Date/Time	Received by: [signature]	Date/Time

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1/18/2023

**Work Order: 23A0499**  
**Project: UPDES Permit Sampling**

**Payson City WWTP**  
**Attn: Jeff Hiatt**  
**439 West Utah Avenue**  
**Payson, UT 84651**

**Client Service Contact: 801.262.7299**

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Approved By:

Joyce Applegate, Project Manager





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## Certificate of Analysis

Payson City WWTP  
Jeff Hiatt  
439 West Utah Avenue  
Payson, UT 84651

PO#:  
Receipt: 1/10/23 15:35 @ 7.2 °C  
Date Reported: 1/18/2023  
Project Name: UPDES Permit Sampling

Sample ID: Influent Composite

Matrix: Wastewater

Sample Type: Composite

Lab ID: 23A0499-01

Date Sampled: 1/10/23 6:05

Sampled By: Phillip Lundell

	<u>Result</u>	<u>Units</u>	<u>Method Detection Limit</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Inorganic</b>								
Biochemical Oxygen Demand	203	mg/L	2	5	SM 5210 B	1/11/23 10:45	1/16/23 10:12	
Total Kjeldahl Nitrogen	47.0	mg/L	3.2	5.3	SM 4500 Norg	1/11/23	1/12/23	
Total Suspended Solids (TSS)	228	mg/L	15	20	SM 2540 D	1/10/23	1/10/23	
<b>Metals</b>								
Phosphorus, Total as P	7.1	mg/L	0.001	0.01	EPA 200.7	1/11/23	1/12/23	



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PO#:  
Receipt: 1/10/23 15:35 @ 7.2 °C  
Date Reported: 1/18/2023  
Project Name: UPDES Permit Sampling

Sample ID: Effluent Composite

Matrix: Wastewater

Sample Type: Composite

Lab ID: 23A0499-02

Date Sampled: 1/10/23 6:15

Sampled By: Phillip Lundell

	Result	Units	Method Detection Limit	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
<b>Inorganic</b>								
Ammonia as N	18.9	mg/L	0.15	1.00	SM 4500 NH3 H	1/11/23	1/11/23	
Biochemical Oxygen Demand	19	mg/L	2	5	SM 5210 B	1/11/23 10:45	1/16/23 10:13	
Cyanide, Total	0.012	mg/L	0.0005	0.002	SM 4500 CN-E	1/11/23	1/11/23	
Nitrate as N	6.21	mg/L	0.02	0.10	EPA 300.0	1/11/23 12:34	1/11/23 15:33	
Nitrite as N	2.1	mg/L	0.02	0.5	SM 4500 NO2-B	1/11/23 10:37	1/11/23 11:22	
Phosphate, ortho as P	3.7	mg/L	0.10	0.20	SM 4500 P-E/F	1/11/23 9:42	1/11/23 10:30	
Total Kjeldahl Nitrogen	22.5	mg/L	0.6	1.0	SM 4500 Norg	1/11/23	1/12/23	
Total Suspended Solids (TSS)	8	mg/L	3	4	SM 2540 D	1/10/23	1/10/23	
<b>Metals</b>								
Phosphorus, Total as P	4.2	mg/L	0.001	0.01	EPA 200.7	1/11/23	1/12/23	
Selenium, Total	0.0013	mg/L	0.0002	0.0005	EPA 200.8	1/11/23	1/12/23	



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## Certificate of Analysis

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Payson, UT 84651

PO#:  
Receipt: 1/10/23 15:35 @ 7.2 °C  
Date Reported: 1/18/2023  
Project Name: UPDES Permit Sampling

Sample ID: Effluent Grab - Sample

Matrix: Wastewater

Sample Type: Grab

Lab ID: 23A0499-03

Date Sampled: 1/10/23 6:20

Sampled By: Phillip Lundell

	<u>Result</u>	<u>Units</u>	<u>Method Detection Limit</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Metals</b>								
Mercury, Total	2.0	ng/L	0.3	1.0	EPA 1631	1/17/23	1/17/23	



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Jeff Hiatt  
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Payson, UT 84651

PO#:  
Receipt: 1/10/23 15:35 @ 7.2 °C  
Date Reported: 1/18/2023  
Project Name: UPDES Permit Sampling

Sample ID: Effluent - Blank

Matrix: Wastewater

Sample Type: Grab

Date Sampled: 1/10/23 6:20

Sampled By: Phillip Lundell

Lab ID: 23A0499-04

	<u>Result</u>	<u>Units</u>	<u>Method Detection Limit</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Metals</b>								
Mercury, Total	< 0.3	ng/L	0.3	1.0	EPA 1631	1/17/23	1/17/23	



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## Certificate of Analysis

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Jeff Hiatt  
439 West Utah Avenue  
Payson, UT 84651

PO#:  
Receipt: 1/10/23 15:35 @ 7.2 °C  
Date Reported: 1/18/2023  
Project Name: UPDES Permit Sampling

Sample ID: Influent Grab - Sample

Matrix: Wastewater

Sample Type: Grab

Date Sampled: 1/10/23 6:10

Sampled By: Phillip Lundell

Lab ID: 23A0499-05

	<u>Result</u>	<u>Units</u>	<u>Method Detection Limit</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Metals</b>								
Mercury, Total	10.3	ng/L	0.3	1.0	EPA 1631	1/17/23	1/17/23	



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Payson, UT 84651

PO#:  
Receipt: 1/10/23 15:35 @ 7.2 °C  
Date Reported: 1/18/2023  
Project Name: UPDES Permit Sampling

Sample ID: Before Chlorination

Matrix: Wastewater

Sample Type: Grab

Lab ID: 23A0499-06

Date Sampled: 1/10/23 6:25

Sampled By: Phillip Lundell

	<u>Result</u>	<u>Units</u>	<u>Method Detection Limit</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Inorganic</b>								
Cyanide, Free	< 0.008	mg/L	0.008	0.016	SM 4500 CN-E	1/18/23	1/18/23	



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Jeff Hiatt  
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Payson, UT 84651

PO#:  
Receipt: 1/10/23 15:35 @ 7.2 °C  
Date Reported: 1/18/2023  
Project Name: UPDES Permit Sampling

---

### Report Footnotes

#### Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit (MRL).

1 mg/L = one milligram per liter or 1 mg/kg = one milligram per kilogram = 1 part per million.

1 ug/L = one microgram per liter or 1 ug/kg = one microgram per kilogram = 1 part per billion.

1 ng/L = one nanogram per liter or 1 ng/kg = one nanogram per kilogram = 1 part per trillion.

## UPDES Permit Sampling

Mark "X" in

Checked by: CA

Mark "X" in

by: [signature]

by: [signature]

Received by Signature

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9/23/2020

**Work Order: 20I0841**  
**Project: UPDES Permit Sampling**

**Payson City WWTP**  
**Attn: Jeff Hiatt**  
**439 West Utah Avenue**  
**Payson, UT 84651**

**Client Service Contact: 801.262.7299**

The analyses presented on this report were performed in accordance with the National Environmental Laboratory Accreditation Program (NELAP) unless noted in the comments, flags, or case narrative. If the report is to be used for regulatory compliance, it should be presented in its entirety, and not be altered.



Approved By:

Mark Broadhead, Project Manager



# Chemtech-Ford Laboratories

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Sandy, UT 84070  
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## Certificate of Analysis

Payson City WWTP  
Jeff Hiatt  
439 West Utah Avenue  
Payson, UT 84651

PO#:  
Receipt: 9/15/20 14:25 @ 6.7 °C  
Date Reported: 9/23/2020  
Project Name: UPDES Permit Sampling

Sample ID: Influent Composite

Matrix: Wastewater

Sample Type: Composite

Lab ID: 20I0841-01

Date Sampled: 9/15/20 7:10

Sampled By: Phillip Lundell

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Inorganic</b>							
Biochemical Oxygen Demand	162	mg/L	5	SM 5210 B	9/16/20 7:37	9/21/20 9:41	
Phosphorus, Total as P	5.1	mg/L	0.20	SM 4500 P-E/F	9/22/20	9/22/20	
Total Kjeldahl Nitrogen	38.9	mg/L	5.3	SM 4500 Norg	9/22/20	9/22/20	
Total Suspended Solids (TSS)	120	mg/L	20	SM 2540 D	9/15/20	9/15/20	



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PO#:  
Receipt: 9/15/20 14:25 @ 6.7 °C  
Date Reported: 9/23/2020  
Project Name: UPDES Permit Sampling

Sample ID: Effluent Composite

Matrix: Wastewater

Sample Type: Composite

Lab ID: 20I0841-02

Date Sampled: 9/15/20 7:05

Sampled By: Phillip Lundell

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Inorganic</b>							
Ammonia as N	ND	mg/L	0.2	SM 4500 NH3 H	9/18/20	9/18/20	
Biochemical Oxygen Demand	ND	mg/L	5	SM 5210 B	9/16/20 7:37	9/21/20 9:41	
Cyanide, Total	0.004	mg/L	0.002	SM 4500 CN-E	9/17/20	9/17/20	
Nitrate as N	26.1	mg/L	1.0	EPA 300.0	9/15/20 16:42	9/15/20 16:42	
Nitrite as N	ND	mg/L	0.1	SM 4500 NO2-B	9/15/20 17:30	9/15/20 18:25	
Phosphate, ortho as P	2.9	mg/L	0.10	SM 4500 P-E	9/16/20 14:05	9/16/20 15:10	
Phosphorus, Total as P	4.2	mg/L	0.10	SM 4500 P-E/F	9/21/20	9/21/20	
Total Kjeldahl Nitrogen	ND	mg/L	1.0	SM 4500 Norg	9/22/20	9/22/20	
Total Suspended Solids (TSS)	ND	mg/L	4	SM 2540 D	9/15/20	9/15/20	
<b>Metals</b>							
Selenium, Total	0.0015	mg/L	0.0005	EPA 200.8	9/16/20	9/17/20	



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## Certificate of Analysis

Payson City WWTP  
Jeff Hiatt  
439 West Utah Avenue  
Payson, UT 84651

PO#:  
Receipt: 9/15/20 14:25 @ 6.7 °C  
Date Reported: 9/23/2020  
Project Name: UPDES Permit Sampling

Sample ID: Effluent Grab

Matrix: Wastewater

Sample Type: Grab

Lab ID: 20I0841-03

Date Sampled: 9/15/20 7:00

Sampled By: Phillip Lundell

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Metals</b>							
Mercury, Total	25.0	ng/L	0.5	EPA 1631	9/17/20	9/17/20	



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## Certificate of Analysis

Payson City WWTP  
Jeff Hiatt  
439 West Utah Avenue  
Payson, UT 84651

PO#:  
Receipt: 9/15/20 14:25 @ 6.7 °C  
Date Reported: 9/23/2020  
Project Name: UPDES Permit Sampling

Sample ID: Effluent Blank

Matrix: Wastewater

Sample Type: Grab

Lab ID: 2010841-04

Date Sampled: 9/15/20 7:00

Sampled By: Phillip Lundell

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
<b>Metals</b>							
Mercury, Total	22.4	ng/L	0.5	EPA 1631	9/17/20	9/17/20	



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### Certificate of Analysis

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Payson City WWTP  
Jeff Hiatt  
439 West Utah Avenue  
Payson, UT 84651

PO#:  
Receipt: 9/15/20 14:25 @ 6.7 °C  
Date Reported: 9/23/2020  
Project Name: UPDES Permit Sampling

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### Report Footnotes

#### Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit (MRL).

1 mg/L = one milligram per liter or 1 mg/kg = one milligram per kilogram = 1 part per million.

1 ug/L = one microgram per liter or 1 ug/kg = one microgram per kilogram = 1 part per billion.

1 ng/L = one nanogram per liter or 1 ng/kg = one nanogram per kilogram = 1 part per trillion.





Emails regarding WET sampling and other Emails to Dan Griffin



Invitation: Payson Permit Modification Metting @ Mon Jul 11, 2022 2pm - 3pm (MDT)  
(tylerl@payson.org)

Google Calendar <calendar-notification@google.com>

on behalf of

dgriffin@utah.gov <dgriffin@utah.gov>

Mon 7/11/2022 8:47 AM

To: Daniel Hall <dhall@utah.gov>; Travis Jockumsen <travisj@payson.org>; Dave Tuckett <davet@payson.org>; Tyler Lowe <tylerl@payson.org>; Jeff Hiatt <jeffh@payson.org>

Cc: apompeo@utah.gov <apompeo@utah.gov>

 1 attachments (3 KB)

invite.ics;

Join with Google Meet

**Meeting link**

meet.google.com/pnd-kwdw-mae

**Join by phone**

(US) +1 413-591-4060

PIN: 570392186

**More phone numbers**

After review of the WLA and data, it does not look like the limit on cyanide can be authorized.

This is meeting to go over the results of the RP runs.

**When**

Monday Jul 11, 2022 - 2pm – 3pm (Mountain Time - Denver)

**Guests**

dgriffin@utah.gov - organizer

Daniel Hall

travisj@payson.org

davet@payson.org

tylerl@payson.org

jeffh@payson.org

apompeo@utah.gov - optional

**View all guest info**

Reply for tylerl@payson.org

Yes

No

Maybe

More options

**Invitation from Google Calendar**

You are receiving this email because you are an attendee on the event. To stop receiving future updates for this event, decline this event.

Forwarding this invitation could allow any recipient to send a response to the organizer, be added to the guest list, invite others regardless of their own invitation status, or modify your RSVP. Learn more

The permits for both Payson City WWTP and the Nebo Power Station will expire in approximately a year. Currently both facilities have effluent limits for cyanide. When looking into the reasonable potential for cyanide during the renewal of other facilities we have investigated further into the WLA.

The WLA bases the recommended limits on the standard. The standard for cyanide is set on Free Cyanide, but the WLA has been interpreted as indicating total cyanide. When investigating free cyanide, there is no easy translator value for total and free cyanide. Basically we cannot back calculate the free cyanide from a total value and vice versa. For the facilities that cyanide RP becomes an issue with, we have let them choose to accept the limit, or start monitoring for both total and free cyanide. For the renewal of both your facilities we will offer that you can start monitoring for free cyanide along with total cyanide to determine if the limit is appropriate, or stick with the limit as is.

But if we have free cyanide data for the renewal that we can run the RP against when we start the renewal, I may be able to justify the removal of the limits during this renewal and just include the monitoring in the renewal permits.

The minimum number of data points we feel the RP model can produce a reasonable result with is 10. The greater the size of the sample set to use, the better and trustworthy the RP results are. For both facilities we would need the data available when the renewal applications are submitted. Notices about those should go out soon.

Thanks  
Dan

--

Daniel Griffin,  
Daniel Griffin P.E. | Environmental Engineer | Individual Permitting Section  
801.536.4387 (office) | 801.536.4301 (fax)

Tyler,

I reported the issue, and they think they have fixed it. The fix should update and propagate through the system by Monday. Try again next week,

Let me know then if the system updated.

Dan

On Wed, Jan 15, 2020 at 8:42 AM Tyler Lowe <[tylerl@payson.org](mailto:tylerl@payson.org)> wrote:

Dan,

So getting on the DMR website to enter in 4<sup>th</sup> QTR heavy metals results the website I noticed that it is still showing from November till January instead of October to December would you still want me to enter in 4<sup>th</sup> QTR now or wait until you resolve this problem?

--

Daniel Griffin, P. E.

Daniel Griffin P.E. | Environmental Engineer | UPDES Surface Water Section

801.536.4387 (office) | 801.536.4301 (fax)

Jeff,

I saved it and am going to ask Andrea to enter the DMR Data.

There has been a big push to get the system cleaned up, and my turn to go over everything with Andrea and work out these kinks is coming up once I have pinned down all my loose ends. I think/hope we will have an overarching solution that will work out.

Speaking of which, one of my loose ends is that I can't locate the 2019 Second Qtr metals for Payson. Could you email me the lab reports on those?

Thanks  
Dan

On Fri, May 21, 2021 at 12:58 PM Jeff Hiatt <[jeffh@payson.org](mailto:jeffh@payson.org)> wrote:

Dan,

Here is the 2<sup>nd</sup> QTR WET results since our NETDMR still is messed up on entering the results. Can you please enter this data and respond to this email that it has been completed?

Thanks

*Jeff Hiatt*

Wastewater Superintendent

[JeffH@payson.org](mailto:JeffH@payson.org)

8014046455



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Daniel Griffin, P. E.

Daniel Griffin P.E. | Environmental Engineer | UPDES Surface Water Section

801.536.4387 (office) | 801.536.4301 (fax)

Sent from my Sprint Samsung Galaxy S9.

----- Original message -----

From: Daniel Griffin <dgriffin@utah.gov>  
Date: 11/27/19 9:46 AM (GMT-07:00)  
To: Tyler Lowe <tylerl@payson.org>  
Subject: Re: DMR

Ok, thanks.

On Tue, Nov 26, 2019 at 1:42 PM Tyler Lowe <tylerl@payson.org> wrote:

I got onto NetDMR and I am not seeing where you want to submit the missing WET and Metals into the DMR.

**From:** Daniel Griffin <dgriffin@utah.gov>  
**Sent:** Monday, November 25, 2019 10:04 AM  
**To:** Tyler Lowe <tylerl@payson.org>  
**Subject:** Re: DMR

Tyler,

Looking over the DMR's, it appears as if the Quarterly Reporting for metals and WET is set up to be due one month off from the calendar quarter,

Feb - Apr,	Instead of	Jan - Mar
May - Jul ,	Instead of	Apr - Jun
Aug - Oct ,	Instead of	Jul - Sep
Nov - Jan ,	Instead of	Oct - Dec

I will work to correct this, but it looks like you were able to enter the results for the next 2 Quarters of this year. Can you go back in and submit the missing WET and Metals into the April 31/19 DMR?

Dan

On Mon, Apr 15, 2019 at 9:05 AM Tyler Lowe <[tylerl@payson.org](mailto:tylerl@payson.org)> wrote:

This is Tyler Lowe with Payson City this is just email to follow up with the phone conversation we had concerning the NetDMR with no reporting tab for the QTR WET test or the QTR Heavy Metals testing.

Thanks,

Tyler Lowe

--

Daniel Griffin, P. E.

Daniel Griffin P.E. | Environmental Engineer | UPDES Surface Water Section

801.536.4387 (office) | 801.536.4301 (fax)

--

Daniel Griffin, P. E.

Daniel Griffin P.E. | Environmental Engineer | UPDES Surface Water Section

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UTAH DEPARTMENT of  
ENVIRONMENTAL QUALITY  
**WATER  
QUALITY**

## Division of Water Quality (DWQ) UPDES Program

### INITIAL NON-COMPLIANCE NOTIFICATION

Date of Report: 5/26/2020 DWQ Notification Date: 5/26/2020 DWQ Contact: Daniel Griffin  
Facility Name: Payson City UPDES Permit No.: UT0020427  
Facility Contact: Jeff Hiatt Title: Superintendent  
Phone Number: 801-465-5277 Email Address: Jeffh@payson.org

**Incident Type:**

- ☒ Permit Violation ☐ Order Violation ☐ Anticipated Non-Compliance ☐ Bypass ☐ Overflow  
☐ Other \_\_\_\_\_

Date(s) of Non-Compliance: 5/12/2020 Location of Discharge: Outfall  
Volume Discharge: \_\_\_\_\_ gallons Water Body Impacted: Beer Creek

**Description of non-compliance(s) and cause(s):**

Ammonia was 15 mg/l where are limit is 11 mg/l

**Clean-up Activities:**

non

**Explanation:**

We are currently running test on each area of the plant to figure out the Ammonia spike.

**Resolution/Plan of Resolution:**

**closely monitor ammonia and its discharges**

Has event ceased? ☒ Yes ☐ No If so, when? \_\_\_\_\_

Was event due to plant upset? ☐ Yes ☐ No UPDES Discharge Permit limits violated? ☒ Yes ☐ No

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment of knowing violations.

Jeff Hiatt

Superintendent

5/26/2020

PRINT Signatory Authority

Signature

Title

Date

*The Division of Water Quality may request addition information.*

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