

Appendix B  
BROWN AND CALDWELL CONDITION  
ASSESSMENT 2019





# City of Wilsonville Triennial Inspection Report

Wilsonville WWTP and  
Wastewater Lift Stations:

Canyon Creek  
Charbonneau  
Corral Creek

Grande Pointe  
Memorial Park  
Morey's Landing

Rivergreen  
River Village  
Town Center

June 24, 2019







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# Technical Memorandum

Prepared for: City of Wilsonville

Project Title: On-Call Civil Engineering and Related Services,  
Triennial Inspection of the Wilsonville WWTP and Nine Lift Stations

Project No.: 153390

## Technical Memorandum

Subject: 2019 Triennial Inspection of the Wilsonville WWTP  
and Sewage Lift Stations

Date: June 24, 2019

To: Delora Kerber, P.E., Director of Public Works/Emergency Management Coordinator

From: Simon Watson, CMRP, ENV SP, Brown and Caldwell

Art Molseed, P.E., Brown and Caldwell

### *Limitations:*

*This document was prepared solely for City of Wilsonville, Oregon, (City) in accordance with professional standards at the time the services were performed and in accordance with the contract between the City and Brown and Caldwell dated November 9, 2018. This document is governed by the specific scope of work authorized by the City; it is not intended to be relied upon by any other party except for regulatory authorities contemplated by the scope of work. We have relied on information or instructions provided by the City and other parties and, unless otherwise expressly indicated, have made no independent investigation as to the validity, completeness, or accuracy of such information.*

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## List of Abbreviations

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BC	Brown and Caldwell
City	City of Wilsonville
CM	corrective maintenance
CMMS	computerized maintenance management system
DBO	Design-Build-Operate
GBT	gravity belt thickener
LED	light-emitting diode
MCC	motor control center
PM	preventive maintenance
RAS	return activated sludge
TWAS	thickened waste activated sludge
UV	ultraviolet
WWTP	wastewater treatment plant

## Section 1: Introduction

Brown and Caldwell (BC) was contracted by the City of Wilsonville (City) to complete the triennial inspection of the Wilsonville Wastewater Treatment Plant (WWTP). In accordance with Section 8.4 of the City's Design-Build-Operate (DBO) Agreement with Jacobs Engineering (formerly CH2M Hill), a triennial inspection of the WWTP is required. This inspection requires a review of the state of repair, working condition, and performance of equipment and facilities at the Wilsonville WWTP and nine sewage lift stations. This report was developed to provide the City with a review of the findings and record of the inspection reports for equipment and facilities.

## Section 2: Inspection Approach and Scoring System

To meet the requirements in Section 8.4 of the DBO agreement between the City and CH2M Hill, the inspection conducted by BC included the following activities associated with the equipment:

- Review of equipment maintenance records
- Visual condition inspection of the equipment
- Visual observation of the equipment in service and recording the performance to ensure that it is meeting the functional design requirements

The inspections were performed during a site visit completed on March 27-29, 2019, and a supplemental visit on May 31, 2019, to inspect the new Grande Pointe Lift Station. The visual inspection was conducted and documented by process area and lift station. The inspector used a phone and tablet application called Fulcrum. Fulcrum is a user interface application that allowed the inspector to effectively document observations on individual assets, and access and update the database while in the field. The goal of performing the work in this manner was to have a single repository and consistent methodology for collecting and managing the condition assessment data.

The inspector assigned a condition and performance score to each asset and supplemented the rating with field observations, notes from interviews with Operations staff, and photographs. The Fulcrum application was used to generate report documentation that is included with this report. WWTP inspection reports are included in Attachment A and lift station inspection reports are included in Attachment B. Photographs were taken of most of the assets and are included in the respective reports in Attachments A and B. Table 1-1 defines the asset scoring system used for condition and performance ratings.

In some cases, as described below, some units were not operational or had been taken out of service for maintenance and could not be operated. In general, equipment that was not operational during the inspection is noted in the reports. The maintenance records from 2016 through early 2019 were reviewed and included preventive maintenance (PM) and corrective maintenance (CM) activities, and an open work order report.

**Table 1-1. Asset Scoring System**

Score	Condition Score	Performance Score
1	Excellent	Component functioning as intended
2	Slight visible degradation	In service, but higher than expected O&M
3	Visible degradation	In service, but function is impaired
4	Integrity of component moderately compromised	In service, but function is highly impaired
5	Integrity of component is compromised	Component is not functioning as intended

## Section 3: WWTP Inspection Report Summaries

This section presents summaries of the inspection reports for the following areas of the Wilsonville WWTP:

- Area 10 Preliminary Treatment
- Area 40
  - Aeration and Stabilization Basins
  - Process Gallery
- Area 50 Secondary Clarifiers
- Area 53 Secondary Effluent Pumps
- Area 55 Secondary Effluent Cooling Towers
- Area 60 Secondary Effluent Filters
- Area 70 UV Disinfection
- Area 78 Solids Dewatering and Drying
- Area 80 and 81 Thickening
- Area 82 Biosolids
- Area 90 W3 Reuse System
- Area 91 Odor Control
- Area 95 Operations Building
- Areas 99 and 100 Backup Power Systems

These areas, along with detailed inspection reports on the City's nine sewage lift stations, are documented on the complete inspection forms, included as Attachments A and B, respectively, to the 2019 Triennial Inspection Report.

### 3.1 Area 10 Preliminary Treatment

The Area 10 assets inspected during the 2019 Triennial Review, and their respective condition and performance scores, are listed in Table 3-1. The comments column identifies key inspection findings, and/or includes suggested corrective actions. Inspection reports for this equipment are located behind the Area 10 tab in Attachment A.

**Table 3-1. Area 10 Headworks Equipment and Facilities**

Asset No.	Asset Name	Condition Score	Performance Score	Comments
10BLD-01	Headworks Structure	2	2	Water leakage
FV10-20101	Flow Valve 10-20101	1	1	No immediate action required
FV10-20102	Flow Valve 10-20102	1	1	No leaks observed
GCL10-31500	Grit Classifier 31500	2	1	Leakage from top cover
GTE10-12500	Influent Channel Gate #1	1	1	No immediate action required
GTE10-12501	Influent Channel Gate #2	1	1	Confirm asset number
GTE10-12502	Influent Channel Gate 12502	1	1	Confirm asset number
GTE10-12601	Screen Channel Inf Gate #1	1	1	No immediate action required
GTE10-12602	Screen Channel Inf Gate #2	1	1	No immediate action required

Table 3-1. Area 10 Headworks Equipment and Facilities				
Asset No.	Asset Name	Condition Score	Performance Score	Comments
GTE10-12603	Screen Channel Inf Gate #3	1	1	No immediate action required
GTE10-12701	Screen Channel Eff Gate #1	1	1	No immediate action required
GTE10-12702	Screen Channel Eff Gate #2	2	1	Channel seal collapsed
GTE10-12703	Screen Channel Eff Gate #3	2	1	Channel seal collapsed
GTE10-32101	Grit Basin Influent Gate	1	1	No immediate action required
GTE10-32102	Grit Basin Effluent Gate	2	1	Drive chain rusted and lacking lube
GTE10-32103	Grit Basin Bypass Gate	1	1	No immediate action required
GV10-19301	Influent Channel 1 Valve	1	1	No immediate action required
GV10-19302	Influent Channel 2 Valve	1	1	No immediate action required
GYC10-31100	Grit Cyclone 31100	2	1	Duct tape of effluent hose
MXR10-30100	Grit Basin Mixer	2	1	Some external coating missing, cover next to mixer missing
PMP10-10500	Vactor Sump Pump	4	5	Schedule corrective work action
PMP10-30500	Grit Pump 30500	1	1	No visible leaks, oil level good
SAM10-11000	Composite Sampler #1	2	1	Part of door seal is missing, cooling fan vents partially plugged
SCR10-13001	Manual Bar Screen	2	1	Unable to see
SCR10-13002	Influent Screen #2	2	1	Discharge chute boot cracking, appears to be leaking, channel seals collapsed
SCR10-13003	Influent Screen #3	2	1	Discharge chute boot cracking, no leakage observed, channel seals collapsed
SWC10-20501	Screenings Washer Compactor #1	2	1	Leaking oil between gearbox and auger
SWC10-20502	Screenings Washer Compactor #2	2	1	Leaking water from bottom inspection doors

In general, the Area 10 headworks equipment appeared to be in good working order. The items noted below do not currently impact the reliable operation for the facilities but, if left un-corrected, may result in a reduced equipment life expectancy and impact efficient operation of systems.

The photos shown in Figure 3-1 illustrate various condition issues described in Table 3-1.



Figure 3-1. Area 10 Preliminary Treatment

## 3.2 Area 40 Aeration and Stabilization Basins

The Area 40 Aeration and Stabilization Basin assets inspected during the 2019 Triennial Review, and their respective condition scores, are listed in Table 3-2. The comments column identifies key findings during the inspection, and includes some recommendations for corrective actions. Inspection reports for this equipment are behind the Area 40 tab in Attachment A.

Table 3-2. Area 40 Aeration and Stabilization Basins Equipment and Facilities				
Asset No.	Asset Name	Condition Score	Performance Score	Comments
BLW40-50004	Aeration Blower #4	2	1	Some coating has come off
BLW40-50005	Aeration Blower #5	2	1	Rear filter louvers and media are dirty
BLW40-50006	Aeration Blower #6	2	1	Rear filter louvers and media are dirty
FCV40-12001	Flow Control Valve 40-12001	2	1	No immediate action required
FCV40-12002	Flow Control Valve 40-12002	2	1	No immediate action required
FCV40-30001	Flow Control Valve 40-30001	2	1	No immediate action required
FCV40-30002	Flow Control Valve 40-30002	2	1	No immediate action required
FCV40-30003	Flow Control Valve 40-30003	2	1	No immediate action required
FCV40-30101	Flow Control Valve 40-30101	2	1	No immediate action required
FCV40-30102	Flow Control Valve 40-30102	2	1	No immediate action required
FCV40-30103	Flow Control Valve 40-30103	2	1	No immediate action required
GTE40-21003	Aeration Basin Effluent Weir Gate	2	1	Missing cap on valve stem cover
MXR40-20001	Anaerobic Mixer #1	N/A	N/A	Understand this will be replaced
MXR40-20002	Anaerobic Mixer #2	N/A	N/A	Understand this will be replaced
MXR40-20003	Anaerobic Mixer #3	N/A	N/A	Understand this will be replaced
MXR40-20004	Anaerobic Mixer #4	2	1	Understand this will be replaced
MXR40-20003	Anaerobic Mixer #5	N/A	N/A	Understand this will be replaced
MXR40-20006	Anaerobic Mixer #6	2	1	Understand this will be replaced

In general, the Area 40 aeration and stabilization basins equipment appeared to be in good working order.

### 3.3 Area 40 Process Gallery

The Area 40 Process Gallery assets associated with secondary treatment that were inspected during the 2019 Triennial Review, and their respective condition scores, are listed in Table 3-3. The comments column provides some observations made during the inspections. Inspection reports for this equipment are behind the Area 40 tab in Attachment A.

Table 3-3. Area 40 Process Gallery Equipment and Facilities				
Asset No.	Asset Name	Condition Score	Performance Score	Comments
PGB-M-40-5-1	Aeration Basin Blower #1	2	1	Excessive grease on outboard bearing or seal is leaking
PGB-M-40-5-1-M	Aeration Basin Blower Motor #1	2	1	No immediate action required
PGB-M-40-5-2	Aeration Basin Blower #2	2	1	Both bearings have excessive grease or seals are leaking
PGB-M-40-5-2-M	Aeration Basin Blower Motor #2	2	1	No immediate action required
PGB-M-40-5-3	Aeration Basin Blower #3	2	1	Outboard bearing seal appears to be starting to fail, grease leaking from discharge valve stem
PGB-M-40-5-3-M	Aeration Basin Blower Motor #3	2	1	Part of base has no coating

The photos shown in Figure 3-2 supplement the comments listed in Table 3-3.

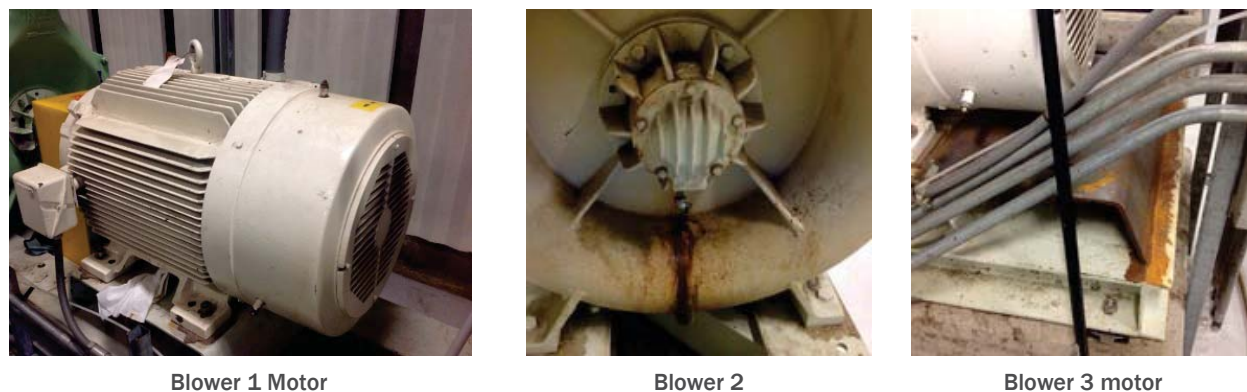


Figure 3-2. Area 40 Aeration Blowers

Additional equipment in the Process Gallery associated with the solids thickening process is summarized in Section 3.10 Area 80 and 81 Thickening.

### 3.4 Area 50 Secondary Clarifiers

The Area 50 assets inspected during the 2019 Triennial Review, and their respective condition scores, are listed in Table 3-4. The comments column identifies key inspection findings and includes some recommendations for corrective actions. Inspection reports for this equipment are located behind the Area 50 tab in Attachment A.

Table 3-4. Area 50 Secondary Clarifiers Equipment and Facilities				
Asset No.	Asset Name	Condition Score	Performance Score	Comments
CLR50-00103	Secondary Clarifier #3	2	1	Slight oil leak between motor and gearbox
LCP50-10103	Sec Clarifier #3 Control Panel	2	1	See report for CLR50-10103
PMP50-03001	RAS Pump #1	2	1	No immediate action required
PMP50-03002	RAS Pump #2	2	1	No immediate action required
PMP50-03003	RAS Pump #3	2	1	Slight oil leak on check valve packing
PMP50-03004	RAS Pump #4	2	1	No immediate action required
PMP50-20100	Scum Pump	2	1	No immediate action required
SC-50-1-1	Secondary Clarifier #1	2	2	See weir washer and mechanism below
SC-50-1-2	Secondary Clarifier #2	3	1	Spalling on upper wall by UV facilities
SC-50-1-3	Sec Clarifier #1 Weir Washer	3	4	Weir washers not working
SC-50-1-4	Sec Clarifier #2 Weir Washer	3	3	One of the weir washers is not working
SC-M-50-1-1	Secondary Clarifier, #1 Mechanism	3	1	Motor/upper gearbox noise, slight oil leak from torque meter, torque meter at 5
SC-M-50-1-2	Secondary Clarifier, #2 Mechanism	2	1	Middle gearbox appears to be leaking oil into the process, torque meter at 40

The photos shown in Figure 3-3 supplement the comments listed in Table 3-4.



Secondary clarifier 1 weir washer



Secondary clarifier 1



Secondary clarifier 2



Secondary clarifier 2 weir washer



Secondary clarifier 2



Secondary clarifier 2 torque meter

Figure 3-3. Area 50 Secondary Clarifiers



### 3.5 Area 53 Secondary Effluent Pumps

The Area 53 assets inspected during the 2019 Triennial Review, and their respective condition scores, are listed in Table 3-5. These pumps are in good condition and no immediate actions have been identified. Inspection reports for this equipment are located behind the Area 53 tab in Attachment A.

Asset No.	Asset Name	Condition Score	Performance Score	Comments
PMP53-10001	Secondary Effluent Pump #1	2	1	No immediate action required
PMP53-10002	Secondary Effluent Pump #2	2	1	No immediate action required
PMP53-10003	Secondary Effluent Pump #3	2	1	No immediate action required

### 3.6 Area 55 Secondary Effluent Cooling Towers

The Area 55 assets inspected during the 2019 Triennial Review, and their respective condition scores, are listed in Table 3-6. As indicated in the comments column, the secondary effluent cooling tower equipment had been taken out of service at the time of the inspection. Inspection reports for this equipment are located behind the Area 55 tab in Attachment A.

Asset No.	Asset Name	Condition Score	Performance Score	Comments
CTW55-11001	Cooling Tower Fan #1	N/A	N/A	Not in service and not inspected—nets over the top
CTW55-11002	Cooling Tower Fan #2	N/A	N/A	Not in service and not inspected—nets over the top
PMP55-10501	Cooling Tower Pump #1	2	1	Pump drained for winter
PMP55-10502	Cooling Tower Pump #2	2	1	Pump drained for winter

### 3.7 Area 60 Secondary Effluent Filters

The Area 60 assets inspected during the 2019 Triennial Review, and their respective condition scores, are listed in Table 3-7. As indicated in the comments column, some issues were identified with this equipment. Inspection reports for this equipment are located behind the Area 60 tab in Attachment A. BC understands that the cloth disks will be replaced with steel disks.

Table 3-7. Area 60 Secondary Effluent Filters Equipment				
Asset No.	Asset Name	Condition Score	Performance Score	Comments
DF60-10001	Disk Filter #1	2	1	Housekeeping needs, backwash pump ran at a pressure of 40 psi <sup>a</sup>
DF60-10002	Disk Filter #2	2	1	Housekeeping needs, backwash pump ran at a pressure of 110 psi, confirm appropriate setting <sup>a</sup>
PMP60-11001	Disk Filter Backwash Pump #1	2	1	Inspected with filters, see report for DF60-10001
PMP60-11002	Disk Filter Backwash Pump #2	2	1	Inspected with filters, see report for DF60-10001

a. BC understands that the existing filter equipment will be modified with replacement disks.

The photos shown in Figure 3-4 supplement the comments listed in Table 3-7.



Filter #1



Filter #2

Figure 3-4. Area 60 Secondary Effluent Filters

### 3.8 Area 70 UV Disinfection

The Area 70 assets inspected during the 2019 Triennial Review, and their respective condition scores, are listed in Table 3-8. In general, the UV disinfection equipment appears to be in good condition. However, it appears that the Trojan equipment associated with UV channel 1 has been out of service for some time and would require significant maintenance to place back in service. Inspection reports for this equipment are located behind the Area 70 tab in Attachment A.

**Table 3-8. Area 70 UV Disinfection Equipment**

Asset No.	Asset Name	Condition Score	Performance Score	Comments
GTE70-10001	UV Channel 1 Influent Gate	2	1	No immediate action required
GTE70-10002	UV Channel 2 Influent Gate	2	1	No immediate action required
LCP70-12	UV Main Control Panel	2	1	No immediate action required
PMP70-21500	Effluent Turbidity Sample Pump	2	1	No immediate action required
UV-LCP-70-1	UV Control Panel	N/A	N/A	Did not inspect
UV-70-S-1-2	Effluent Composite Sampler #1	N/A	N/A	Did not inspect
UV-70-S-1-2	Effluent Composite Sampler #2	2	1	No immediate action required
UV-70-S-1-3	Effluent Composite Sampler #2	2	1	Vent fans not plugged in
UV-M-70	Trojan UV 4000 UV System	3	2	Appears to have been out of service for an extended time
UV-M-70-5	UV Module Winch Motor	1	1	No immediate action required
UVM70-20001	UV Module #1 Ozonia	1	1	No immediate action required
UVM70-20002	UV Module #2 Ozonia	2	1	No immediate action required
UVM70-20003	UV Module #3 Ozonia	2	1	No immediate action required

### 3.9 Area 78 Solids Dewatering and Drying

The Area 78 assets inspected during the 2019 Triennial Review, and their respective condition scores, are listed in Table 3-9. As shown in the last column with comments, some issues were identified with this equipment. Inspection reports for this equipment are located behind the Area 78 tab in Attachment A.

Table 3-9. Area 78 Dewatering and Drying Equipment				
Asset No.	Asset Name	Condition Score	Performance Score	Comments
<b>Dewatering Equipment</b>				
CEN78-10301	Centrifuge #1	2	1	Oil dripping from lubrication system
CEN78-10302	Centrifuge #2	2	1	No immediate action required
CNV78-30201	Cent #1 Discharge Conveyor	2	1	No immediate action required
CNV78-30202	Cent #2 Discharge Conveyor	2	1	No immediate action required
LCP78-11	Centrifuge #1 Control Panel	2	1	No immediate action required
LCP78-12	Centrifuge #2 Control Panel	2	1	No immediate action required
PLB78-31001	Centrifuge #1 Polyblend Unit	2	2	Polymer leaking from packing
PLB78-31002	Centrifuge #2 Polyblend Unit	2	2	Polymer leaking from packing
<b>Drying Equipment</b>				
CNV78-10100	Load Out Distribution Conveyor	2	1	A lot of dried product in the load-out room
CNV78-20200	Cake Bin Discharge Conveyor	2	1	See report for CNV78-20700
CNV78-20300	Dryer Feed Conveyor	2	1	See report for CNV78-20700
CNV78-20700	Bio Solids Dryer	2	1	Since inspection, dryer has been taken out of service and may be out of operation for a few months
CNV78-20800	Dryer Discharge Conveyor	2	2	There is evidence of fires
CNV78-20900	Dry Product Cooling Conveyor	2	1	Grease on drive shaft
CTE78-10201	Retractable Loadout Chute #1	2	1	Recommend more detailed inspection
CTE78-10202	Retractable Loadout Chute #2	2	1	Recommend more detailed inspection
CTE78-10203	Retractable Loadout Chute #3	2	1	Recommend more detailed inspection
CTW78-40500	Dryer Condensate Cooling Tower	2	1	Water reservoir autofill valve appears to be running constantly
HTR78-20400	Thermal Heater System	2	1	No visible leaks
LCP78-13	Bio Solids Dryer Control Panel	N/A	N/A	Not inspected
LCP78-20400	Thermal Heater Control Panel	N/A	N/A	Not inspected
PMP-20200	Thermal Heater System	2	1	Sludge leaking from packing
PMP78-40100	Dryer Condenser Sump Pump	2	1	No immediate action required
PMP78-41000	Dryer Cooling Tower Spray Pump	N/A	N/A	Not inspected, not in operation
SCB78-20600	Vent Scrubber/Condenser	3	2	Scrubber fan has excessive oil leakage
TNK78-20100	Dryer Cake Bin	2	1	No immediate action required

The photos shown in Figure 3-5 depict some of the concerns associated with the dewatering equipment noted in Table 3-9.



Centrifuge #1



Polymer blending unit 1



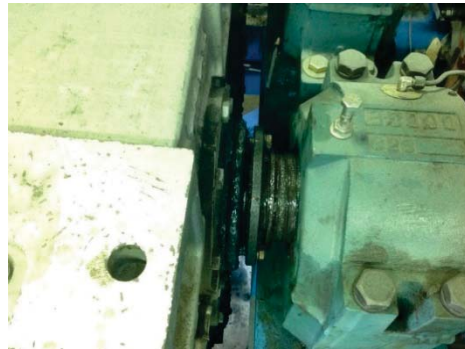
Polymer blending unit 2

**Figure 3-5. Area 78 Dewatering Equipment**

The photos in Figure 3-6 supplement the comments associated with the biosolids drying equipment in Table 3-9



Dryer



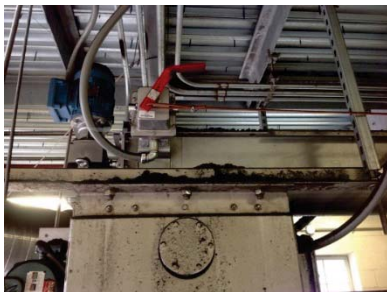
Dryer drive shaft



Vent scrubber/condenser

**Figure 3-6. Area 78 Dryer Equipment**

The photos shown in Figure 3-7 illustrate of the issues associated with the dried product loadout area noted in Table 3-9.



Load-out distribution conveyor



Dryer discharge conveyor



Load-out chute

**Figure 3-7. Area 78 Load-Out Area**

The biosolids dryer was in service during the March 2019 inspections. However, we understand that the equipment is currently out of service and may not be back in operation for another couple of months.

As noted in Table 3-9, there is quite a bit of dried product in the load-out room, and that a significant amount of housekeeping is required for clean-up. BC recommends using the retractable chutes to reduce the amount of dust in the room

As described in Section 3.13, there is oily residue from the dryer that is apparently passing through the foul air duct and collects at the odor control fans. This is a potential source of odors from the solids handling area.

### 3.10 Area 80 and 81 Thickening

Equipment in the Process Gallery associated with Areas 80 and 81, and their respective condition scores, are listed in Table 3-10. As shown in the last column with comments, some issues were identified with this equipment. Inspection reports for this equipment are behind the Areas 80 and 81 tab in Attachment A. We understand that the thickening process is not currently used.

Table 3-10. Areas 80 and 81 Thickening Equipment				
Asset No.	Asset Name	Condition Score	Performance Score	Comments
PGB-P-80-6	Thickened Biosolids Pump	2	1	Check valve may have a leak
PGB-P-80-8	Vogelsang TWAS Rotary Lobe Pump	1	1	No immediate action required
PG-M-80-3-1	GBT Hydraulic Unit #1	2	1	Pump is leaking, understand the GBTs are not being used
PG-M-80-3-2	GBT Hydraulic Unit #2	2	1	No immediate action required, understand the GBTs are not being used
PG-M-80-4-1	Gravity Belt Thickener #1	2	1	No immediate action required, understand the GBTs are not being used
PG-M-80-4-2	Gravity Belt Thickener #2	2	1	No immediate action required, understand the GBTs are not being used
PG-P-80-2-1	Gravity Belt Washwater Pump #1	2	1	Coating system failing
PG-P-80-2-2	Gravity Belt Washwater Pump #2	2	1	Coating system failing, leak on discharge line
PG-M-81-1	Polymer Mix/Feed Unit #1	2	2	Schedule work order
PG-M-81-2	Polymer Injector/Mixer #2	2	1	No immediate action required
PG-M-81-3	Polymer Injector/Mixer #3	2	2	Discharge lines leaking

The photos shown in Figure 3-8 supplement the comments listed in Table 3-10.



Gravity belt thickener 1



Polymer injector/mixer #1



Polymer injector/mixer #3

Figure 3-8. Areas 80 and 81 Equipment in Process Gallery

### 3.11 Areas 82 Biosolids

The Area 82 assets inspected during the 2019 Triennial Review, and their respective condition scores, are listed in Table 3-11. Inspection reports for this equipment are located behind the Area 82 tab in Attachment A.

Table 3-11. Area 82 Biosolids Equipment				
Asset No.	Asset Name	Condition Score	Performance Score	Comments
BS-M-82-1-1	Biosolids Storage Blower #1	2	1	No immediate action required
BS-M-82-1-2	Biosolids Storage Blower #2	2	1	Slight oil leak
PMP82-10003	Vogelsang GBT Feed Pump #1	1	1	Grease or oil from motor area look like residue
PMP82-10004	Vogelsang GBT Feed Pump #2	2	1	Oil leaking from pump
PMP82-20001	Centrifuge Feed Pump #1	5	4	Appears that the pump experienced major process leak. Insulation would need to be removed to determine location of leak.
PMP82-20002	Centrifuge Feed Pump #2	2	1	Signs of minor oil leaks. Insulation would need to be removed to determine location of leak. Loose bolt on fan motor guard.

The photos shown in Figure 3-9 supplement the comments listed in Table 3-11.



Biosolids storage blower 2



Centrifuge feed pump 1



Centrifuge feed pump 2

Figure 3-9. Area 82 Biosolids Equipment

### 3.12 Area 90 W3 Reuse System

The Area 90 assets inspected during the 2019 Triennial Review, and their respective condition scores, are listed in Table 3-12. There is extensive leaking from the pump shaft packing causing further deterioration of the structures and pump equipment. Inspection reports for this equipment are located behind the Area 90 tab in Attachment A.

Table 3-12. Area 90 W3 Reuse System Equipment				
Asset No.	Asset Name	Condition Score	Performance Score	Comments
W3-M-90-1	W-3 Strainer/Motor	3	1	Coating system failed, back flush water discharge line leaking
W3-M-90-1-1	W-3 Pump #1 Motor	2	1	No immediate action required
W3-M-90-1-2	W-3 Pump #2 Motor	2	1	No immediate action required
W3-M-90-1-3	W-3 Pump #3 Motor	2	1	No immediate action required
W3-P-90-1-1	W-3 Submersible Pump #1	3	2	Packing Water Leaking Excessively
W3-P-90-1-2	W-3 Submersible Pump #2	3	2	Coating system failed
W3-P-90-1-3	W-3 Submersible Pump #3	3	2	Coating system failed

The photos shown in Figure 3-10 supplement the comments listed in Table 3-12.



W-3 Strainer



W-3 Pump 1

Figure 3-10. Area 90 W3 Reuse System



### 3.13 Area 91 Odor Control

The Area 91 assets inspected during the 2019 Triennial Review, and their respective condition scores, are listed in Table 3-13. Inspection reports for this equipment are located behind the Area 91 tab in Attachment A.

Table 3-13. Area 91 Odor Control Equipment				
Asset No.	Asset Name	Condition Score	Performance Score	Comments
FAN91-10501	Odor Control Fan 1	2	1	Dripping oily substance from solids dryer, initiate more detailed inspection
FAN91-10502	Odor Control Fan 2	2	1	Dripping oily substance from solids dryer, initiate more detailed inspection, coating on sound enclosure has deteriorated
FAN91-30501	Aeration Basin Ex Fan 30501	2	1	No immediate action required
FAN91-30502	Aeration Basin Em Bypass Fan	2	2	Fan noise and vibrating

The photos shown in Figure 3-11 supplement the comments listed in Table 3-13.



Aeration Basin Emergency Bypass Fan



Odor Control Fan 1

Figure 3-11. Area 91 Odor Control Equipment

### 3.14 Areas 95 Operations Building

The Area 95 asset inspected during the 2019 Triennial Review, and its respective condition and performance scores, are listed in Table 3-14 . Inspection reports for this equipment are located behind the Area 91 tab in Attachment A.

Table 3-14. Areas 95 Operations Building				
Asset No.	Asset Name	Condition Score	Performance Score	Comments
95BLD-01	Operations Building	3	1	<ul style="list-style-type: none"> <li>• Gutters are full</li> <li>• Stucco finish deteriorating at entrance</li> <li>• Floor tiles damaged</li> <li>• Stain on lab ceiling</li> <li>• Several pieces on baseboard in corners missing</li> <li>• Several window leaks in break area</li> <li>• No backflow device on hose bib in back of building</li> </ul>

The photos shown in Figure 3-12 supplement the comments listed in Table 3-14.



Operations Building ceiling



Operations Building door and louver

Figure 3-12. Area 95 Operations Building

### 3.15 Areas 99 and 100 Backup Power Systems

The Areas 99 and 100 assets inspected during the 2019 Triennial Review, and their respective condition scores, are listed in Table 3-15. Inspection reports for this equipment are located behind the Area 99 tab in Attachment A.

Table 3-15. Areas 99 and 100 Backup Power Systems Equipment				
Asset No.	Asset Name	Condition Score	Performance Score	Comments
GEN99-01	1500kW Generator Set	2	1	Suppliers under generator enclosure
GEN-M-100-1	Plant Backup Generator (Large)	1	1	No immediate action required
GEN-M-100-3	Generator Cat Olympian	2	1	Moss growing on cable
GEN-M-100-4	Onan Portable Gas Generator	3	1	Coating system failing

The photos shown in Figure 3-13 supplement the comments listed in Table 3-15.



Generator CAT Olympian



Onan portable gas generator

Figure 3-13. Areas 99 and 100 Backup Power Systems

## Section 4: Lift Station Inspection Report Summaries

This section summarizes the findings of the inspections performed on the City’s nine sewage lift stations listed below:

- Canyon Creek
- Charbonneau
- Corral Creek
- Grande Pointe
- Memorial Park
- Morey’s Landing
- Rivergreen
- River Village
- Town Center

The summary for each lift station includes the specific asset name/no., assigned condition and performance scores, inspector’s comments, and any relevant photos.

## 4.1 Canyon Creek Lift Station

The findings of the inspection performed on the Canyon Creek Lift Station during the 2019 Triennial Review are listed in Table 4-1. Inspection reports for this equipment are located behind the Canyon Creek tab in Attachment B.

Table 4-1. Canyon Creek Lift Station				
Asset No.	Asset Name	Condition Score	Performance Score	Comments
CANC-LS-07	Canyon Creek Lift Station	2	1	<ul style="list-style-type: none"> <li>Housekeeping issues</li> <li>No back flow devices on hose bibs</li> <li>Roof insulation starting to fall down</li> <li>No confined space sign on wet well</li> <li>Check 120/208 volt transformer temperature</li> </ul>
CANC-LS-07-AUX	Canyon Creek Auxiliary Engine	3	1	<ul style="list-style-type: none"> <li>Corroded electrical terminals</li> <li>Battery held in place with wire ties and bailing wire</li> <li>No cover over battery posts</li> </ul>
CANC-LS-07-P-1	Canyon Creek Lift Pump #1	2	1	<ul style="list-style-type: none"> <li>Check valve inspection cover leaking</li> </ul>
CANC-LS-07-P-2	Canyon Creek Lift Pump #2	2	1	<ul style="list-style-type: none"> <li>Some rust on foundation</li> </ul>

The photos shown in Figure 4-1 supplement the comments listed above.



Pump #1



Battery

Figure 4-1. Canyon Creek Lift Station

## 4.2 Charbonneau Lift Station

The findings of the inspection performed on the Charbonneau Lift Station during the 2019 Triennial Review are listed in Table 4-2. Inspection reports for this equipment are located behind the Charbonneau tab in Attachment B.

Table 4-2. Charbonneau Lift Station				
Asset No.	Asset Name	Condition Score	Performance Score	Comments
CHAR-LS-01-AUX	Charbonneau Auxiliary Engine	2	1	<ul style="list-style-type: none"> <li>Slight oil leak from top of engine</li> <li>Battery has no cover over posts</li> <li>Gas line is not supported by engine</li> </ul>
CHAR-LS-01-P-1	Charbonneau Lift Pump #1	2	1	<ul style="list-style-type: none"> <li>Oil leaking from vent cap</li> <li>Oil is draining for floor drain</li> <li>Vent line held in place by bungee</li> </ul>
CHAR-LS-01-P-2	Charbonneau Lift Pump #2	2	2	<ul style="list-style-type: none"> <li>Oil leaking from vent cap</li> <li>Oil is draining for floor drain</li> </ul>

The photos shown in Figure 4-2 supplement the comments listed above.



Auxiliary engine



Base of pump #2

Figure 4-2. Charbonneau Lift Station

### 4.3 Corral Creek Lift Station

The findings of the inspection performed on the Corral Creek Lift Station during the 2019 Triennial Review are listed in Inspection reports for this equipment are located behind the Canyon Creek tab in Attachment B.

Table 4-3. Corral Creek Lift Station				
Asset No.	Asset Name	Condition Score	Performance Score	Comments
CORC-LS-06	Corral Creek Lift Station	2	1	<ul style="list-style-type: none"> <li>• No fall protection on wet well</li> <li>• Large hole in power control structure where antenna wire passes</li> <li>• No cover over battery posts</li> <li>• Replacement fuses on dirt</li> <li>• Corrosion noted on bottom of control panel</li> <li>• No confined space sign on wet well</li> </ul>
CORCRK-LS-1	Corral Creek Lift Pump #1	2	1	Unable to inspect submersible pump
CORCRK-LS-2	Corral Creek Lift Pump #2	2	1	Unable to inspect submersible pump

The photos shown in Figure 4-3 supplement the comments listed above.



Lift station



Antenna wire and power disconnect

Figure 4-3. Corral Creek Lift Station

## 4.4 Grande Pointe Lift Station

The findings of the inspection performed on the Grande Pointe Lift Station during the 2019 Triennial Review are listed in Table 4-4. Inspection reports for this equipment are located behind the Grande Pointe tab in Attachment B.

Table 4-4. Grande Pointe Lift Station				
Asset No.	Asset Name	Condition Score	Performance Score	Comments
GRANDEPOINTE-LS-09	Grande Pointe Lift Station	1	1	No immediate action required
GRANDEPOINTE-LS-09-AUX	Grande Pointe Auxiliary Engine	1	1	No immediate action required
GRANDEPOINTE-LS-09-P-1	Grande Pointe Lift Pump #1	1	1	No immediate action required
GRANDEPOINTE-LS-09-P-2	Grande Pointe Lift Pump #2	1	1	No immediate action required

The Grande Pointe Lift station, shown in Figure 4-4, appeared to be in very good condition and required no immediate actions.



Lift station structure



Odor control unit



Auxiliary engine

Figure 4-4. Grande Pointe Lift Station

## 4.5 Memorial Park Lift Station

The findings of the inspection performed on the Memorial Park Lift Station during the 2019 Triennial Review are listed in Table 4-5. Inspection reports for this equipment are located behind the Memorial Park tab in Attachment B. The City is currently in the process of replacing the Memorial Park Lift Station in a nearby location.

Table 4-5. Memorial Park Lift Station				
Asset No.	Asset Name	Condition Score	Performance Score	Comments
MEMP-LCP-03	Memorial Park Control Panel	1	1	<ul style="list-style-type: none"> <li>Material stored on top of panel should be removed</li> </ul>
MEMP-LS-03	Memorial Park Lift Station	2	1	<ul style="list-style-type: none"> <li>Housekeeping issues</li> <li>Cutting oil on top of 480 volt breaker panel</li> <li>Louvers to generator stuck open</li> <li>Belts hanging on crane disconnect</li> <li>New rotating unit stored on the floor connected to drain and is subject to pump vibration that could affect bearings</li> </ul>
MEMP-LS-03-AUX	Memorial Park Auxiliary Engine	2	1	<ul style="list-style-type: none"> <li>Cover needs to re-installed</li> </ul>
MEMP-LS-03-P-1	Memorial Park Lift Pump #1	2	1	<ul style="list-style-type: none"> <li>Vent line supported with wire and wrapped in tape</li> </ul>
MEMP-LS-03-P-2	Memorial Park Lift Pump #2	2	1	<ul style="list-style-type: none"> <li>Belt guard bracket has come loose or was not installed. It is laying next to pump.</li> </ul>

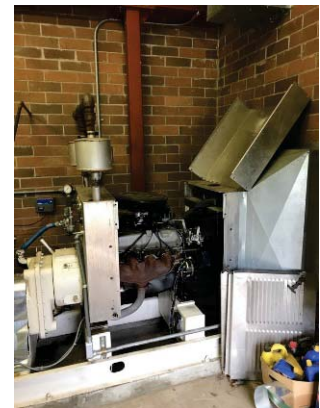
The photos shown in Figure 4-5 supplement the comments listed above.



Interior



Panel



Auxiliary engine

Figure 4-5. Memorial Park Lift Station



## 4.6 Morey's Landing Lift Station

The findings of the inspection performed on the Morey's Landing Lift Station during the 2019 Triennial Review are listed in Table 4-6. Inspection reports for this equipment are located behind the Morey's Landing tab in Attachment B.

Table 4-6. Morey's Landing Lift Station				
Asset No.	Asset Name	Condition Score	Performance Score	Comments
MORL-LS-8	Morey's Landing Lift Station	2	1	<ul style="list-style-type: none"> <li>• Housekeeping issues</li> <li>• Junction box for pump and check valve instrumentation not in place</li> <li>• Insulation falling down</li> <li>• Plastic cover on ceiling is coming down</li> <li>• No confined space entry sign on wet well</li> <li>• Hose running from inside pump station to soaker system for trees</li> </ul>
MORL-LS-08-AUX	Morey's Landing Auxiliary Engine	3	1	<ul style="list-style-type: none"> <li>• Electrical connections corroded</li> <li>• Battery not tied down</li> <li>• No cover over battery posts</li> <li>• Frame corroded</li> <li>• Gas line not supported well</li> </ul>
MORL-LS-08-P1	Morey's Landing Lift Pump #1	3	1	<ul style="list-style-type: none"> <li>• Pump mounting frame corroded</li> <li>• Leak on inspection cover</li> </ul>
MORL-LS-08-P2	Morey's Landing Lift Pump #2	3	1	<ul style="list-style-type: none"> <li>• Pump frame corroded</li> </ul>

The photos shown in Figure 4-6 supplement the comments listed above.



Pump #1



Auxiliary engine

Figure 4-6. Morey's Landing Lift Station

## 4.7 Rivergreen Lift Station

The findings of the inspection performed on the Rivergreen Lift Station during the 2019 Triennial Review are listed in Table 4-7. Inspection reports for this equipment are located behind the Rivergreen tab in Attachment B.

Table 4-7. Rivergreen Lift Station				
Asset No.	Asset Name	Condition Score	Performance Score	Comments
RIVG-LS-05	Rivergreen Lift Station	2	1	No confined space entry sign on wet well
RIVG-LS-1	Rivergreen Lift Pump #1	2	1	Could not inspect submersible pump
RIVG-LS-2	Rivergreen Lift Pump #2	2	1	Could not inspect submersible pump

The photos shown in Figure 4-7 supplement the comments listed above.



Figure 4-7. Rivergreen Lift Station

## 4.8 River Village Lift Station

The findings of the inspection performed on the River Village Lift Station during the 2019 Triennial Review are listed in Table 4-8. Inspection reports for this equipment are located behind the River Village tab in Attachment B.

Table 4-8. River Village Lift Station				
Asset No.	Asset Name	Condition Score	Performance Score	Comments
RIVV-LS-04	River Village Lift Station	2	1	
RV-LS-1	River Village Lift Pump #1	2	1	Could not inspect submersible pump
RV-LS-2	River Village Lift Pump #2	2	1	Could not inspect submersible pump

## 4.9 Town Center Lift Station

The findings of the inspection performed on the Town Center Lift Station during the 2019 Triennial Review are listed in Table 4-9. Inspection reports for this equipment are behind the Town Center tab in Attachment B.

Table 4-9. Towne Center Lift Station				
Asset No.	Asset Name	Condition Score	Performance Score	Comments
TOWNCENTER-LS-02	Town Center Lift Station	2	1	<ul style="list-style-type: none"> <li>Reason for plywood sheeting on top of panel unknown</li> </ul>
TOWNCENTER-LS-02-P-1	Town Center Lift Pump #1	2	1	<ul style="list-style-type: none"> <li>No immediate action required</li> </ul>
TOWNCENTER-LS-02-P-2	Town Center Lift Pump #2	2	1	<ul style="list-style-type: none"> <li>Pump number 2 belt guard and elbow stored on top of pump</li> <li>Install belt guard and remove elbow</li> </ul>

The photos shown in Figure 4-8 supplement the comments in Table 4-9.



Figure 4-8. Town Center Lift Station

## Section 5: Summary and Conclusions

This report documents the 2019 Triennial Review of the Wilsonville WWTP and sewage lift stations conducted to satisfy Section 8.4 of the City’s DBO Agreement with Jacobs Engineering. Sections 3 and 4 of this report summarize key observations, findings, and recommendations from the inspection and review of equipment maintenance records.

Inspection reports for the WWTP are included in Attachment A, and reports for the lift stations are included in Attachment B.

### 5.1 Conclusions of Review

Overall, the plant appears to be in good condition, which should be expected given the age of some of the equipment. As described in Section 3.9, there have been operational problems with the biosolids drying system and associated odor control system that are of concern.

The photos in Figure 5-1 show burnt solids that appear to be from a dryer fire and oily residue leaking from one of the two odor control fans



Burnt Solids



Oily residue at odor control fan

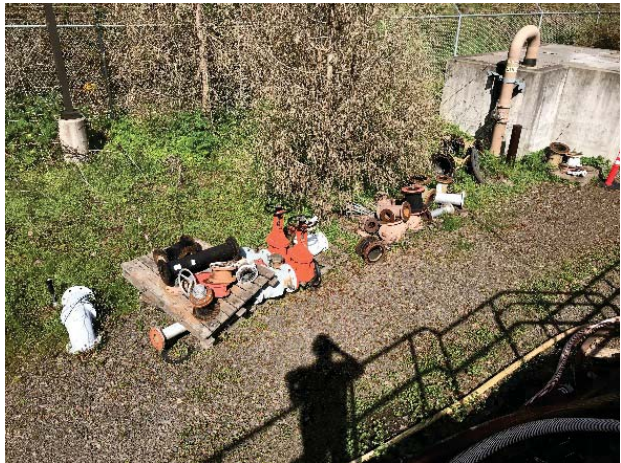
Figure 5-1. Burnt Biosolids and Oily Residue

The truck loadout is another potential odor and dust source. Fugitive odors and dust are a concern with the roll-up door open during loading operations as shown in Figure 5-2.



Figure 5-2. Dried Product Loadout

A final issue of note is general housekeeping. Figure 5-3 shows storage of materials and equipment outside or in temporary facilities.



Outside storage



Temporary storage facilities

Figure 5-3. General Housekeeping

## 5.2 Acknowledgements

BC would like to thank the staff at the plant for being very cooperative and open with information, as well as their generous hospitality. Their cooperation and candor provided for an excellent opportunity to complete an accurate triennial report.

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## Attachment A: WWTP Inspection Forms

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### Area #

10	Preliminary Treatment
40	Aeration and Stabilization Basins
40	Process Gallery ( <i>follows Aeration and Stabilization Basin forms</i> )
50	Secondary Clarifiers
53	Secondary Effluent Pumps
55	Secondary Effluent Cooling Towers
60	Secondary Effluent Filters
70	UV Disinfection
78	Solids Dewatering and Drying
80 & 81	Thickening
82	Biosolids
90	W3 Reuse System
91	Odor Control
95	Operations Building ( <i>follows Area 91 forms</i> )
99 & 100	Backup Power Systems ( <i>Area 100 forms follow Area 99 forms</i> )





## Preliminary Treatment

Created	2019-03-27 00:11:10 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:58:50 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	11:40
Area or Function	Preliminary Treatment

## Asset Description/Equipment List

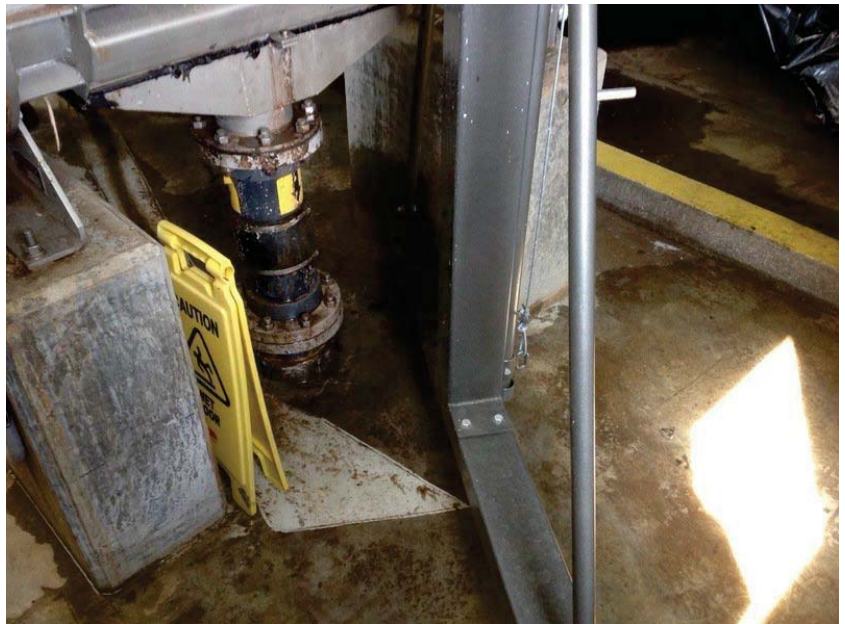
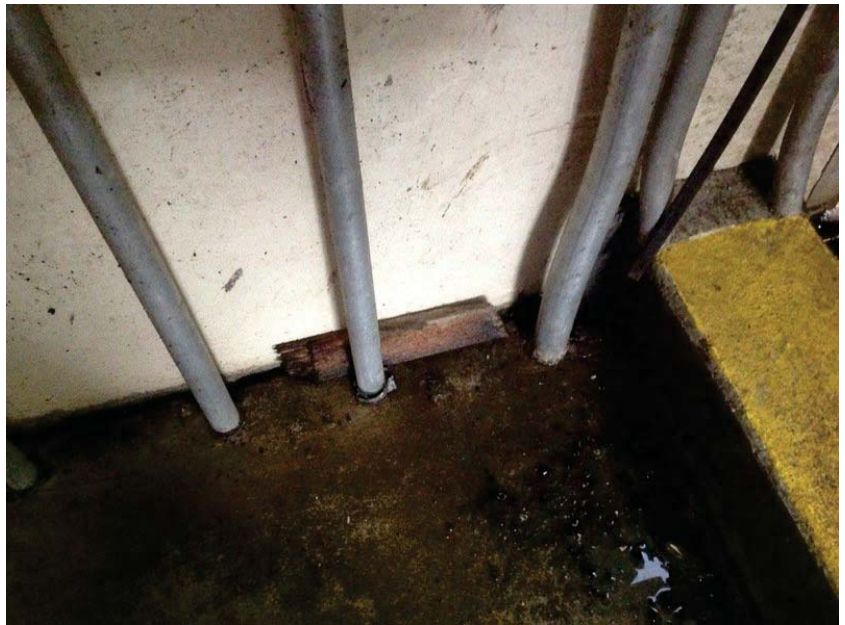
Preliminary Treatment	Headworks Structure, 10BLD-01
Station ID	10BLD-01
What type of Asset?	Structural

## Structural

Field Observations	Leaking
Condition Score	2 - Slight Visible Degradation
Performance Score	2 - In Service, but higher than Expected O&M
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Water leaking in under door by grit bin Joint compound is missing in several areas or the joints have become bigger and the compound no longer covers the joint

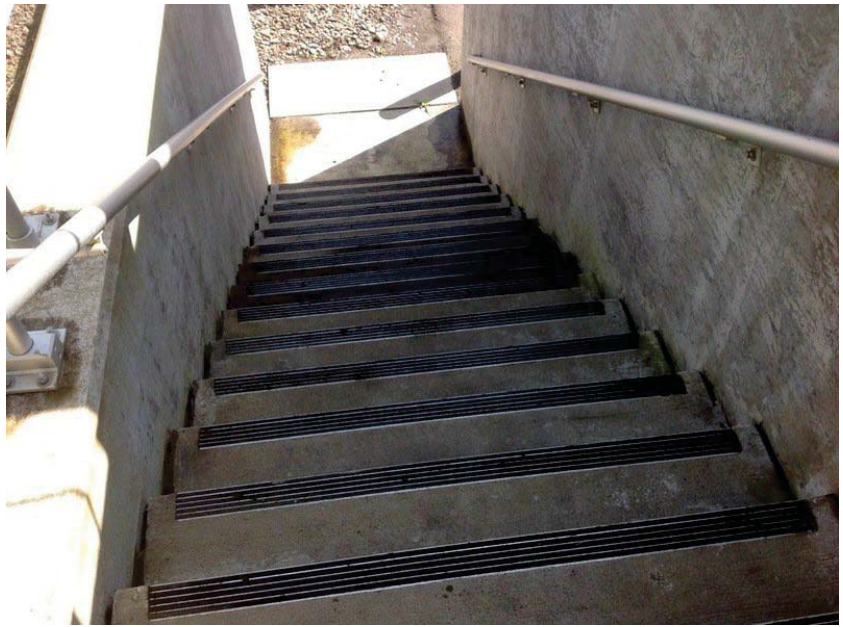
Photos











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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Preliminary Treatment

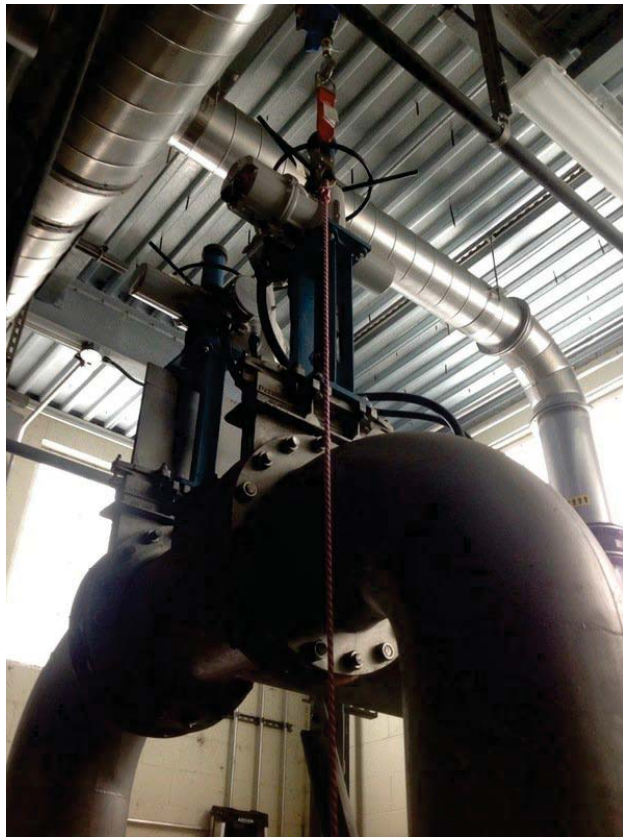
Created	2019-03-27 00:11:18 UTC by Tony Van Haverbeke
Updated	2019-05-28 20:06:26 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	10:58
Area or Function	Preliminary Treatment
Station ID	FV10-20101
What type of Asset?	Valves

## Valves

Field Observations	Good condition
Condition Score	1 - Excellent
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Knife gate closed No leaks

## Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Pre-Safety Treatment

Created	2019-03-27 00:11:18 UTC by Tony Van Haverbeke
Updated	2019-05-28 20:07:03 UTC by Gerson Matwón
Location	00.00
Date	2019-03-28
Time	10:50
Area or Function	Pre-Safety Treatment
Station ID	FV10-20102
What type of Asset?	Valve

## Valve

Field Observation	Good Condition
Condition Score	1 - Excellent
Performance Score	1 - Component Functioning as Intended
Reliability Assessment	No Significant Attention Required
Field Observation Comments	Knife gate open No leaks

Photo





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City Staff Prevent (naive)

None

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AWW ent By (naive)

65 on matWn

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## Preliminary Treatment

Created	2019-03-27 00:10:52 UTC by Tony Van Haverbeke
Updated	2019-05-28 20:05:17 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	11:10
Area or Function	Preliminary Treatment

## Asset Description/Equipment List

Preliminary Treatment	Grit Classifier 31500, GCL10-31500
Station ID	GCL10-31500
Asset Description	Grit Classifier 31500
What type of Asset?	Mechanical

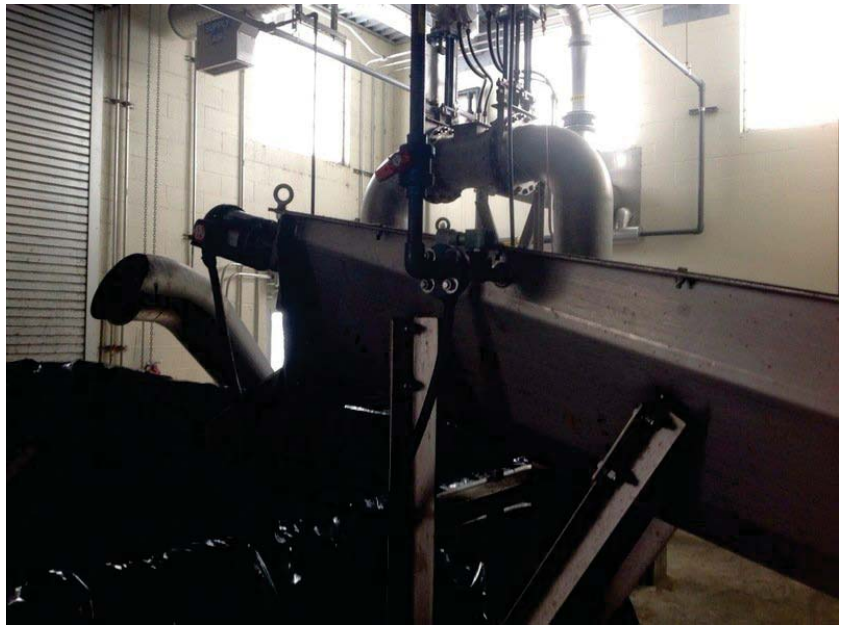
## Mechanical

Field Observations	Leaking
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Not in operation during site visit Some water leaking out of top inspection cover

Photos







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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Preliminary Treatment

Created	2019-03-27 00:11:20 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:56:20 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	12:05
Area or Function	Preliminary Treatment

## Asset Description/Equipment List

Preliminary Treatment	Influent Channel Gate #1, GTE10-12500
Station ID	GTE10-12500
What type of Asset?	Valves

## Valves

Field Observations	Good condition
Condition Score	1 - Excellent
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	No Issues

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Preliminary Treatment

Created	2019-03-27 00:11:20 UTC by Tony Van Haverbeke
Updated	2019-05-28 20:18:15 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	10:07
Area or Function	Preliminary Treatment
Station ID	GTE10-12501
What type of Asset?	Valves

## Valves

Field Observations	Good condition
Condition Score	1 - Excellent
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Influent Channel Gate open Influent Channel 1 influent gate closed Botha have same asset number

## Photos







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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Preliminary Treatment

Created	2019-03-27 00:11:20 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:56:46 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	12:06
Area or Function	Preliminary Treatment

## Asset Description/Equipment List

Preliminary Treatment	Influent Channel Gate #2, GTE10-12501
Station ID	GTE10-12502
What type of Asset?	Valves

## Valves

Field Observations	Good condition
Condition Score	1 - Excellent
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Preliminary Treatment

Created	2019-03-27 00:11:20 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:56:46 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	12:06
Area or Function	Preliminary Treatment

## Asset Description/Equipment List

Preliminary Treatment	Influent Channel Gate #2, GTE10-12501
Station ID	GTE10-12502
What type of Asset?	Valves

## Valves

Field Observations	Good condition
Condition Score	1 - Excellent
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required

Photos





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City Staff Present (names)

None

Assessment By (names)

Simon Watson

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## Preliminary Treatment

Created	2019-03-27 00:11:20 UTC by Tony Van Haverbeke
Updated	2019-05-28 20:16:43 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-26
Time	17:21
Area or Function	Preliminary Treatment
Station ID	GTE10-12601
What type of Asset?	Valves

## Valves

Field Observations	Good condition
Condition Score	1 - Excellent
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Gate in closed position

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Preliminary Treatment

Created	2019-03-27 00:11:20 UTC by Tony Van Haverbeke
Updated	2019-05-28 20:17:27 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	08:20
Area or Function	Preliminary Treatment
Station ID	GTE10-12602
What type of Asset?	Valves

## Valves

Field Observations	Good condition
Condition Score	1 - Excellent
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Gate in open position

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon

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## Preliminary Treatment

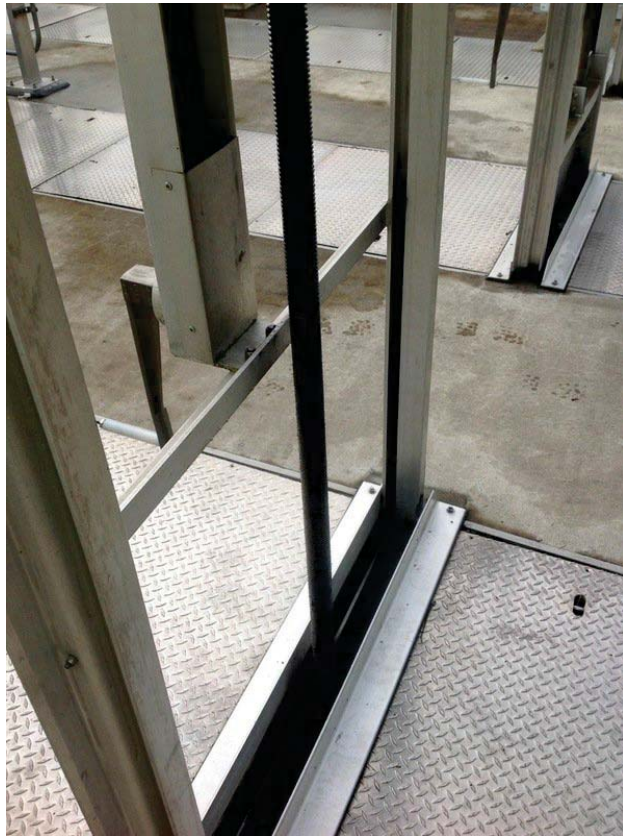
Created	2019-03-27 00:11:20 UTC by Tony Van Haverbeke
Updated	2019-05-28 20:17:53 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	08:22
Area or Function	Preliminary Treatment
Station ID	GTE10-12603
What type of Asset?	Valves

## Valves

Field Observations	Good condition
Condition Score	1 - Excellent
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Gate partially open

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Preliminary Treatment

Created	2019-03-27 00:11:21 UTC by Tony Van Haverbeke
Updated	2019-05-28 20:10:35 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	10:33
Area or Function	Preliminary Treatment
Station ID	GTE10-12701
What type of Asset?	Valves

## Valves

Field Observations	Good condition
Condition Score	1 - Excellent
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Gate closed

Photos





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City Staff Present (names)

None



## Preliminary Treatment

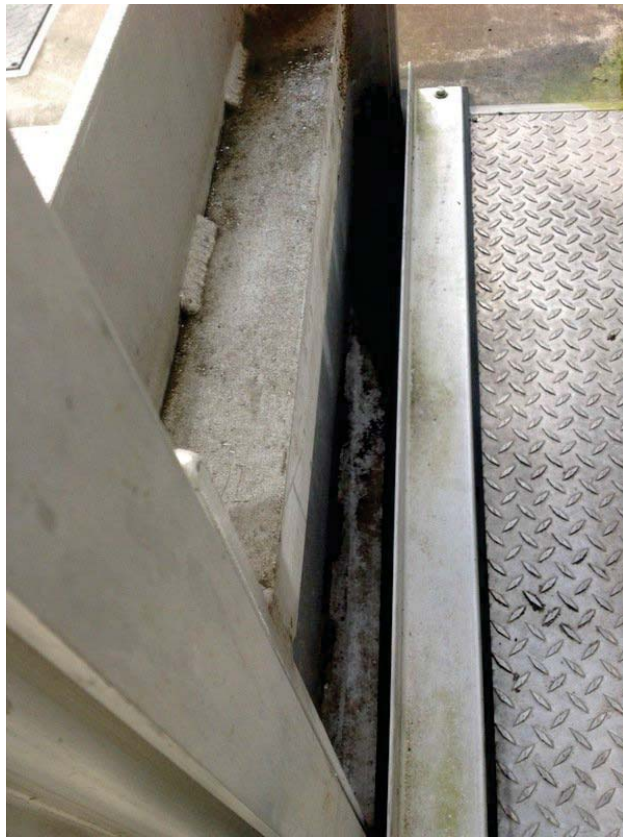
Created	2019-03-27 00:11:21 UTC by Tony Van Haverbeke
Updated	2019-05-28 20:15:15 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	10:28
Area or Function	Preliminary Treatment
Station ID	GTE10-12702
What type of Asset?	Valves

## Valves

Field Observations	Good condition
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Gate open Channel seal collapsed

## Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Preliminary Treatment

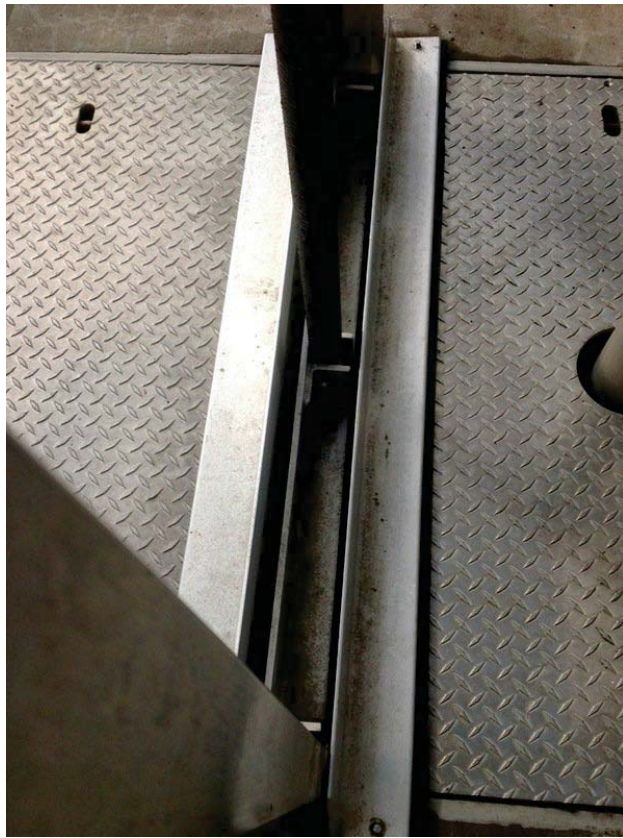
Created	2019-03-27 00:11:21 UTC by Tony Van Haverbeke
Updated	2019-05-28 20:11:02 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	10:31
Area or Function	Preliminary Treatment
Station ID	GTE10-12703
What type of Asset?	Valves

## Valves

Field Observations	Good condition
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Gate closed Channel seal missing

## Photos





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City Staff Present (names)

None

## Preliminary Treatment

Created	2019-03-27 00:11:21 UTC by Tony Van Haverbeke
Updated	2019-05-28 20:09:47 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	10:37
Area or Function	Preliminary Treatment
Station ID	GTE10-32101
What type of Asset?	Valves
Condition Score	1 - Excellent
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Gate open

Photos





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City Staff Present (names)

None

## Preliminary Treatment

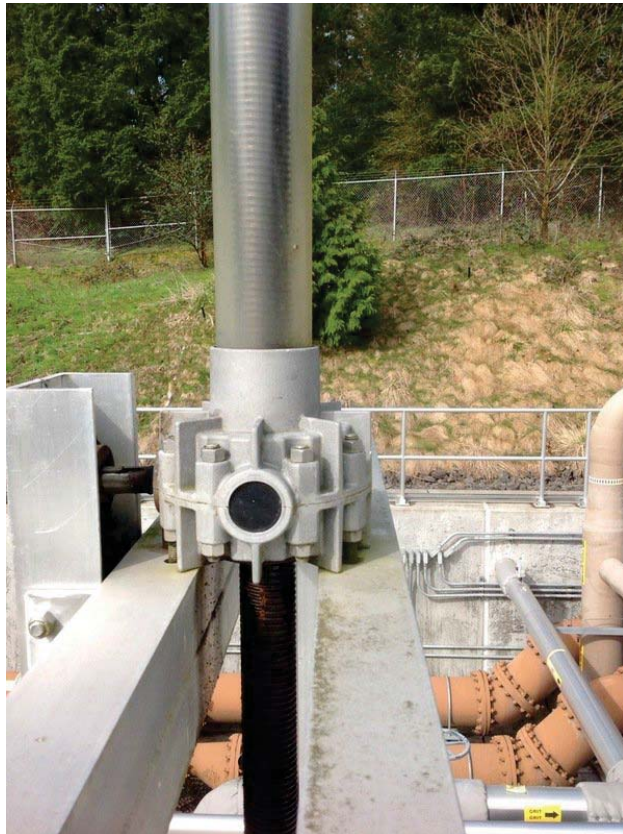
Created	2019-03-27 00:11:21 UTC by Tony Van Haverbeke
Updated	2019-05-28 20:09:27 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	10:39
Area or Function	Preliminary Treatment
Station ID	GTE10-32102
What type of Asset?	Valves

## Valves

Field Observations	Good condition
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Gate open Drive chain rusted and lacking lube

## Photos









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City Staff Present (names)

None

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## Pre-Survey Treatment

Created	2019-03-27 00:11:21 UTC by Tony Van Haverbeke
Updated	2019-05-28 20:10:10 UTC by 45 on matW
soLat	00.00
, ate	2019-03-28
TS e	10:3D
Area or Functi	Pre-Survey Treatment
4tation I,	GTE10-32103
what type of AWet?	Valve

## Valve

Field x bervation	Good Location
Condition Lore	1 - Excellent
Performance Lore	1 - Component Function as Intended
Neighborhood	Good Site Location required
Field x bervation Comments	Gate Locked

Photo





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## Preliminary Treatment

Created	2019-03-28 15:08:55 UTC by Simon Watson
Updated	2019-05-28 20:16:13 UTC by Simon Watson
Location	45.2946718304, -122.770453202
Date	2019-03-28
Time	08:08
Area or Function	Preliminary Treatment
Station ID	GV10_19301
Asset Description	Influent Channel 1
What type of Asset?	Valves

## Valves

Field Observations	Good condition
Condition Score	1 - Excellent
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	No issues

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Preliminary Treatment

Created	2019-03-28 15:05:37 UTC by Simon Watson
Updated	2019-05-28 19:52:00 UTC by Simon Watson
Location	45.2954138152, -122.771357019
Date	2019-03-28
Time	08:05
Area or Function	Preliminary Treatment
Station ID	GV10_19302
Asset Description	Influent Channel 2
What type of Asset?	Valves

## Valves

Manufacturer	DeZurik
Field Observations	Good condition
Condition Score	1 - Excellent
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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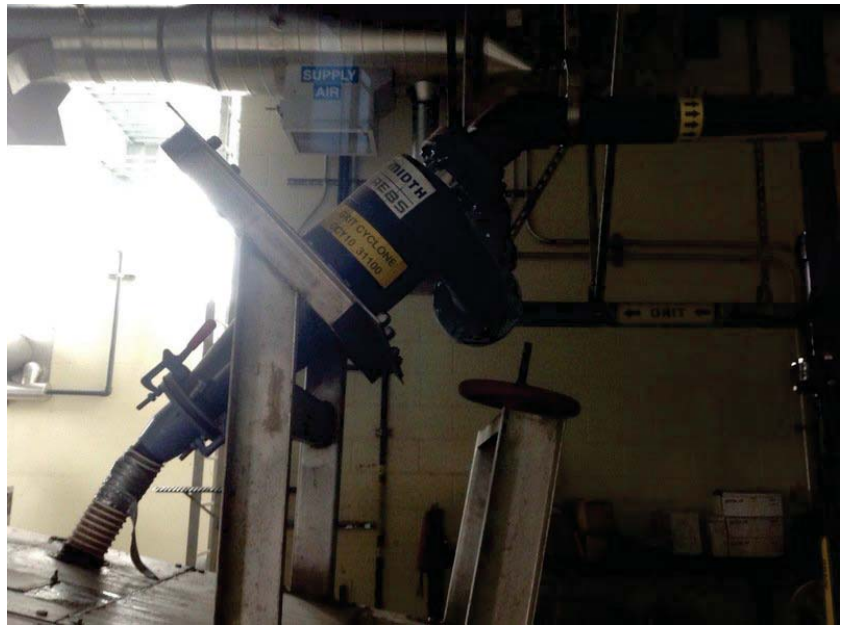


## Preliminary Treatment

Created	2019-03-27 00:10:52 UTC by Tony Van Haverbeke
Updated	2019-05-28 20:04:51 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	11:16
Area or Function	Preliminary Treatment
Station ID	GYC10-31100
Asset Description	Grit Cyclone 31100
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Not in operation during site visit Duct tape on effluent hose

### Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Preliminary Treatment

Created	2019-03-27 00:10:53 UTC by Tony Van Haverbeke
Updated	2019-05-28 20:08:44 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	10:44
Area or Function	Preliminary Treatment
Station ID	MXR10-30100
Asset Description	Grit Basin Mixer
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Mixer running No leaks Some external coating is missing Cover missing next to mixer

### Photos







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City Staff Present (names)

None

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## Preliminary Treatment

Created	2019-03-27 00:11:04 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:55:47 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	12:03
Area or Function	Preliminary Treatment
Station ID	PMP10-10500
What type of Asset?	Pumps and Motors
Condition Score	4 - Integrity of Component Moderately Compromised
Performance Score	5 - Component is not Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Appears to be out of service If needed for normal operations a corrective work order needs to be submitted

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Preliminary Treatment

Created	2019-03-27 00:11:04 UTC by Tony Van Haverbeke
Updated	2019-05-28 23:15:37 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	08:12
Area or Function	Preliminary Treatment
Station ID	PMP10-30500
What type of Asset?	Pumps and Motors
Condition Score	1 - Excellent
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Was not in operation when onsite. Heat tracing working No visible leaks Oil level good

### Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Water Quality Monitoring

Created	2019-03-27 00:10:56 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:43:11 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	10:46
Area or Function	Water Quality Monitoring
Station ID	SAM10-11000
Asset Description	Composite Sampler #1
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Part of the door seal is missing Cooling fan vents partially plugged need cleaning. Fans were not operating

### Photos







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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Preliminary Treatment

Created	2019-03-27 00:10:57 UTC by Tony Van Haverbeke
Updated	2019-05-28 23:15:13 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	11:20
Area or Function	Preliminary Treatment
Station ID	SCR10-13001
Asset Description	Manual Bar Screen
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Unable to see
City Staff Present (names)	None
Assessment By (names)	Simon Watson





## Preliminary Treatment

Created	2019-03-27 00:10:57 UTC by Tony Van Haverbeke
Updated	2019-05-28 20:38:40 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	10:15
Area or Function	Preliminary Treatment
Station ID	SCR10-13002
Asset Description	Influent Screen #2
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Not in service during site visit Discharge Shoot boot cracking and appears to be leaking around the top Channel seals around the base of the unit have collapsed

### Photos









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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## ureP Sary Treati ent

Created	2019-03-27 00:10:57 UTC by Tony Van Haverbeke
Updated	2019-05-28 20:39:12 UTC by 45 on matW0n
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TS e	10:23
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## Preliminary Treatment

Created	2019-03-27 00:10:58 UTC by Tony Van Haverbeke
Updated	2019-05-28 20:05:57 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	10:59
Area or Function	Preliminary Treatment

## Asset Description/Equipment List

Preliminary Treatment	Screenings Washer Compactor #1, SWC10-20501
Station ID	SWC10-20501
Asset Description	Screenings Washer Compactor #1
What type of Asset?	Mechanical

## Mechanical

Field Observations	Leaking
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Not in operation while onsite Leaking oil between gearbox and auger Appears to be leaking oil from fill plug

## Photos









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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Preliminary Treatment

Created	2019-03-27 00:10:58 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:59:21 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	11:06
Area or Function	Preliminary Treatment

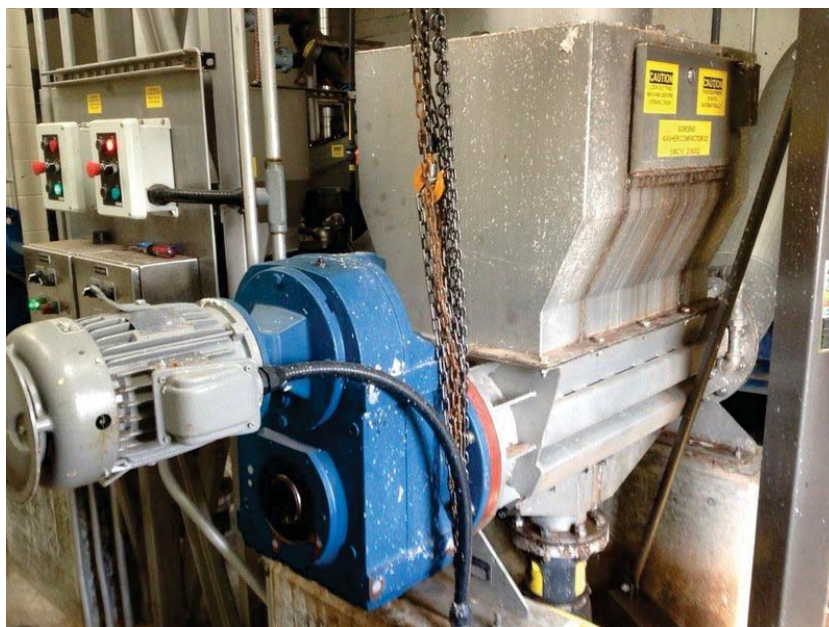
## Asset Description/Equipment List

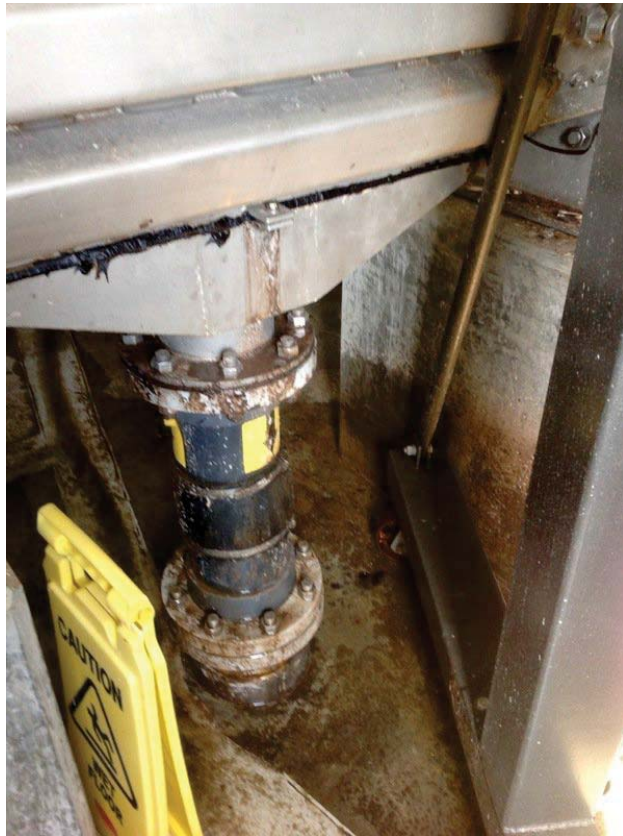
Preliminary Treatment	Screenings Washer Compactor #2, SWC10-20502
Station ID	SWC10-20502
Asset Description	Screenings Washer Compactor #2
What type of Asset?	Mechanical

## Mechanical

Field Observations	Leaking
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	In operation Leaking water from bottom inspection doors

Photos







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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Secondary Treatment

Created	2019-03-27 00:10:47 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:42:32 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	07:37
Area or Function	Secondary Treatment
Station ID	BLW40-50004
Asset Description	Aeration Blower #4
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	In operation Unable to inspect inside Rear filter louvers dirt filter media seems fine Some coating coming off

Photos







Rear filter





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Secondary Treatment

Created	2019-03-27 00:10:47 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:43:30 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	07:44
Area or Function	Secondary Treatment
Station ID	BLW40-50005
Asset Description	Aeration Blower #5
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Initiate more detailed inspection
Field Observations/Comments	Not in operation Unable to inspect inside Rear filter louvers and media are dirty

Photos







Rear







## Secondary Treatment

Created	2019-03-27 00:10:47 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:43:05 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	07:48
Area or Function	Secondary Treatment
Station ID	BLW40-50006
Asset Description	Aeration Blower #6
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Initiate more detailed inspection
Field Observations/Comments	Not in operation Unable to inspect inside Rear filter louvers and media are dirty

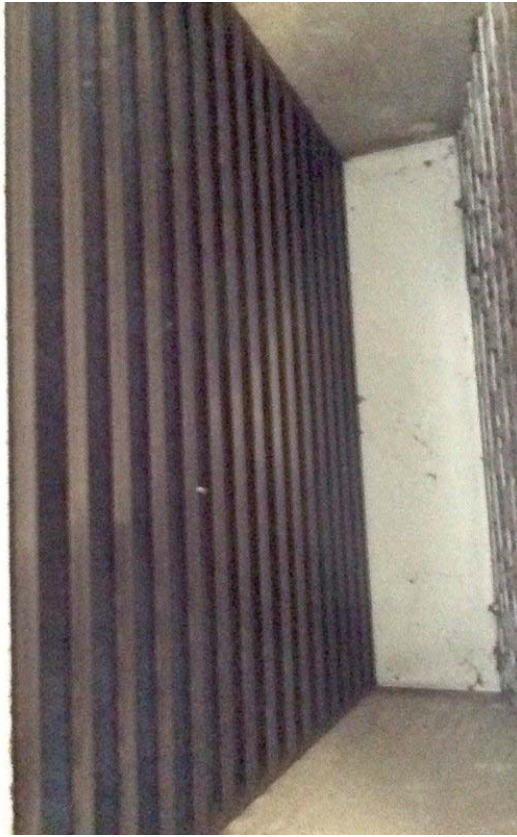
### Photos







Rear filter



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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Secondary Treatment

Created	2019-03-27 00:11:16 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:40:24 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	15:14
Area or Function	Secondary Treatment

## Asset Description/Equipment List

Secondary Treatment	Flow Control Valve 40-12001, FCV40-12001
Station ID	FCV40-12001
What type of Asset?	Valves

## Valves

Field Observations	Good condition
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required

Photos





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City Staff Present (names)

None

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## Secondary Treatment

Created	2019-03-27 00:11:16 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:40:56 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	15:15
Area or Function	Secondary Treatment

## Asset Description/Equipment List

Secondary Treatment	Flow Control Valve 40-12002, FCV40-12002
Station ID	FCV40-12002
What type of Asset?	Valves

## Valves

Field Observations	Good condition
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required

Photos





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City Staff Present (names)

None

---

Assessment By (names)

Simon Watson

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## Secondary Treatment

Created	2019-03-27 00:11:16 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:49:58 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	15:21
Area or Function	Secondary Treatment
Station ID	FCV40-30001
What type of Asset?	Valves

## Valves

Field Observations	Good condition
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Secondary Treatment

Created	2019-03-27 00:11:16 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:49:26 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	15:23
Area or Function	Secondary Treatment
Station ID	FCV40-30002
What type of Asset?	Valves

## Valves

Field Observations	Good condition
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required

Photos





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City Staff Present (names)

None

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## Secondary Treatment

Created	2019-03-27 00:11:17 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:38:02 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	15:24
Area or Function	Secondary Treatment

## Asset Description/Equipment List

Secondary Treatment	Flow Control Valve 40-30003, FCV40-30003
Station ID	FCV40-30003
What type of Asset?	Valves

## Valves

Field Observations	Good condition
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required

Photos





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City Staff Present (names)

None

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## 4eLyodarb Ureati eot

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## Secondary Treatment

Created	2019-03-27 00:11:17 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:37:02 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	15:27
Area or Function	Secondary Treatment

## Asset Description/Equipment List

Secondary Treatment	Flow Control Valve w0-30102, ACVw0-30102
Station ID	ACVw0-30102
What type of Asset?	Valves

## Valves

Visual Observations	Good condition
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required

Photos





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City Staff Present (names)

None

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## Secondary Treatment

Created	2019-03-27 00:11:17 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:37:33 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	15:25
Area or Function	Secondary Treatment

## Asset Description/Equipment List

Secondary Treatment	Flow Control Valve 40-30103, FCV40-30103
Station ID	FCV40-30103
What type of Asset?	Valves

## Valves

Field Observations	Good condition
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Secondary Treatment

Created	2019-03-27 00:11:21 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:44:14 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	15:52
Area or Function	Secondary Treatment
Station ID	GTE40-21003
What type of Asset?	Valves

## Valves

Field Observations	Good condition
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Missing cap on valve stem cover

Photos





City Staff Present (names)

None

## Secondary Treatment

Created	2019-03-28 22:40:19 UTC by Simon Watson
Updated	2019-05-28 19:48:09 UTC by Simon Watson
Location	45.2962724589, -122.770965815
Date	2019-03-28
Time	15:40
Area or Function	Secondary Treatment
Station ID	Mxr40_20002
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Oil leaking from fill pipe Not in operation

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Secondary Treatment

Created	2019-03-28 22:42:30 UTC by Simon Watson
Updated	2019-05-28 19:46:51 UTC by Simon Watson
Location	45.2953085715, -122.770130973
Date	2019-03-28
Time	15:42
Area or Function	Secondary Treatment
Station ID	Mxr40_20003
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Not in operation

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Secondary Treatment

Created	2019-03-27 00:10:53 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:34:59 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	15:31
Area or Function	Secondary Treatment

## Asset Description/Equipment List

Secondary Treatment	Anaerobic Mixer #4, MXR40-20004
Station ID	MXR40-20004
Asset Description	Anaerobic Mixer #4
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Not in operation

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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Created	2019-03-28 22:4U:40 T bC yS i nWs atpnW
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LncatmW	4U.29469848037-122., , 04369, ,
Date	2019-03-28
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Area nr FuWctmW	i eCnWdarS breato eWt
i tatmWID	Mxr40_2000U
s hat tS5e nf Appet?	MechaWrcal

## MechaWrcal

FrelD g yperVatmWp	LeaPWR
CnWdrtmWi cnre	2 - i lrrht vrrpyle DeRradatmW
werfnro aWte i cnre	1 - Cno 5nVtVt FuWctmWVR ap lWteWded
kecno o eWdatmW	i chedule cnrrctve actmWOnrP nrder Wtar tero
FrelD g yperVatmWp/Cno o eWtp	Nnt Wn5eratmW LeaPWR nrfrno phaft ca5 aWd frth lWte

whntnp





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CrtS i taff wrepeWt (Wáio ep)

NnVé

Appello eWt BS (Wáio ep)

i nã nWs atpnW

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## Secondary Treatment

Created	2019-03-27 00:10:54 UTC by Tony Van Haverbeke
Updated	2019-05-28 23:16:15 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	15:34
Area or Function	Secondary Treatment

## Asset Description/Equipment List

Secondary Treatment	Anaerobic Mixer #6, MXR40-20006
Station ID	MXR40-20006
Asset Description	Anaerobic Mixer #6
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Not in operation Damp around sight glass

Photos





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City Staff Present (names)

None

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## Secondary Treatment

Created	2019-03-27 00:10:54 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:10:47 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	10:40
Area or Function	Secondary Treatment

## Asset Description/Equipment List

Secondary Treatment	Aeration Basin Blower #1, PGB-M-40-5-1
Station ID	PGB-M-40-5-1
Asset Description	Aeration Basin Blower #1
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Excessive grease on outboard bearing or seal is leaking Not in operation

Photos







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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Secondary Treatment

Created	2019-03-27 00:10:46 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:11:53 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	10:50
Area or Function	Secondary Treatment

## Asset Description/Equipment List

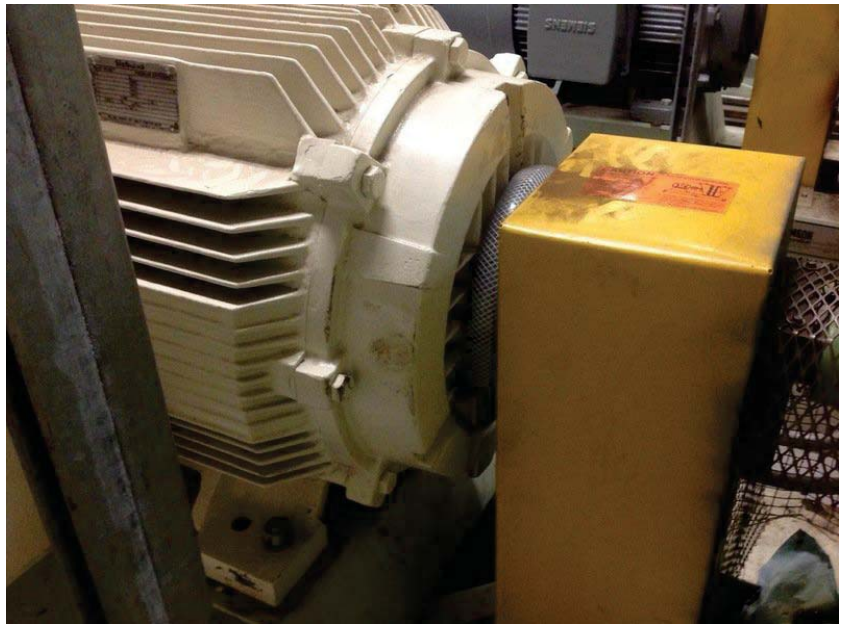
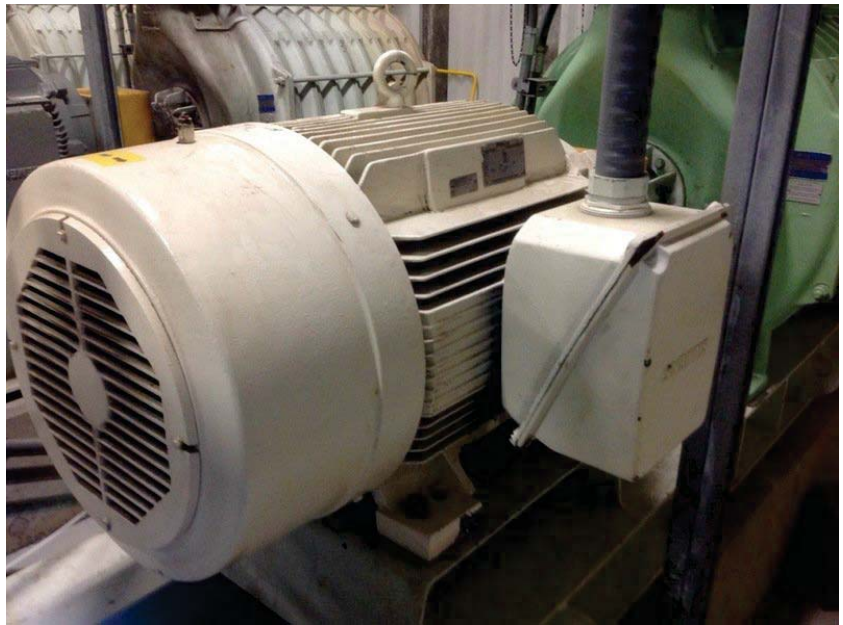
Secondary Treatment	Aeration Basin Blower Motor #1, PGB-M-40-5-1-M
Station ID	PGB-M-40-5-1-M
What type of Asset?	Electrical

## Electrical

Description	Aeration Basin Blower Motor #1
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Not in operation

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Secondary Treatment

Created	2019-03-27 00:10:54 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:11:13 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	10:43
Area or Function	Secondary Treatment

## Asset Description & Equipment List

Secondary Treatment	Aeration Basin Blower #2, PGB-M-40-5-2
Station ID	PGB-M-40-5-2
Asset Description	Aeration Basin Blower #2
What type of Asset?	Mechanical

## Mechanical

Field observations	Leaking
Condition Score	2 - Slight Visible Deterioration
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field observations & Comments	Out of operation Both bearings have excessive grease or seals are leaking Not sure why open drain line is on the outboard bearing Grease leaking from discharge valve stem

Photos











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City Staff Present (names)

Oone

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Assessment By (names)

Simon Watson

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## Secondary Treatment

Created	2019-03-27 00:10:46 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:25:55 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	10:52
Area or Function	Secondary Treatment

## Asset Description/Equipment List

Secondary Treatment	Aeration Basin Blower Motor #2, PGB-M-40-5-2-M
Station ID	PGB-M-40-5-2-M
What type of Asset?	Electrical

## Electrical

Description	Aeration Basin Blower Motor #2
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Not in operation

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Secondary Treatment

Created	2019-03-27 00:10:54 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:27:05 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	10:47
Area or Function	Secondary Treatment

## Asset Description/Equipment List

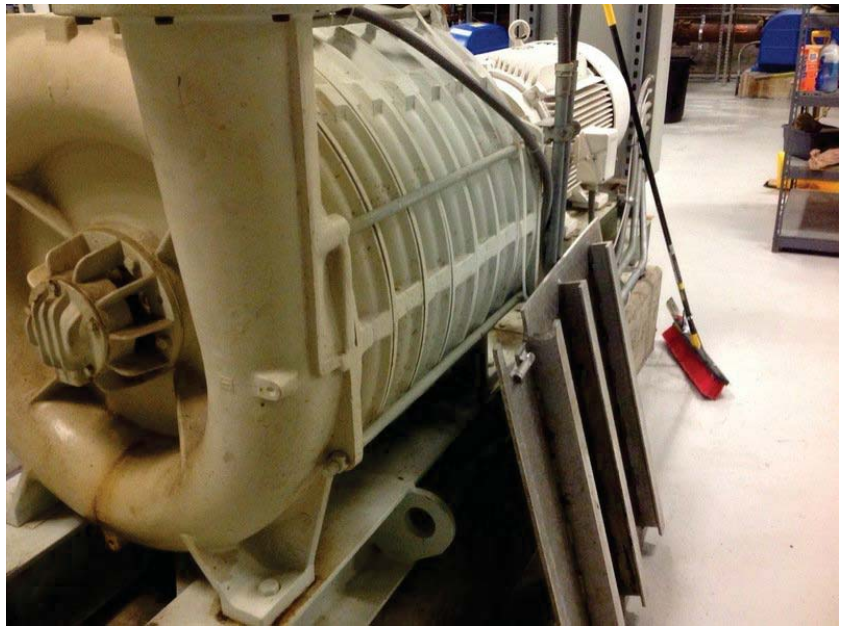
Secondary Treatment	Aeration Basin Blower #3, PGB-M-40-5-3
Station ID	PGB-M-40-5-3
Asset Description	Aeration Basin Blower #3
What type of Asset?	Mechanical

## Mechanical

Field Observations	Leaking
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Outboard bearing seal appears to be starting to fail Grease leaking from discharge valve stem Not in operation

Photos











## Secondary Treatment

Created	2019-03-27 00:10:46 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:26:37 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	10:53
Area or Function	Secondary Treatment

## Asset Description/ Equipment List

Secondary Treatment	Aeration Basin Blower Motor #3, PGB-M-40-5-3-M
Station ID	PGB-M-40-5-3-M
What type of Asset?	Electrical

## Electrical

Description	Aeration Basin Blower Motor #3
Field observations	Corrosion
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field observations/Comments	Part of base has no coating Out in operation

Photos







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City Staff Present (names)

Oone

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Assessment By (names)

Simon Watson

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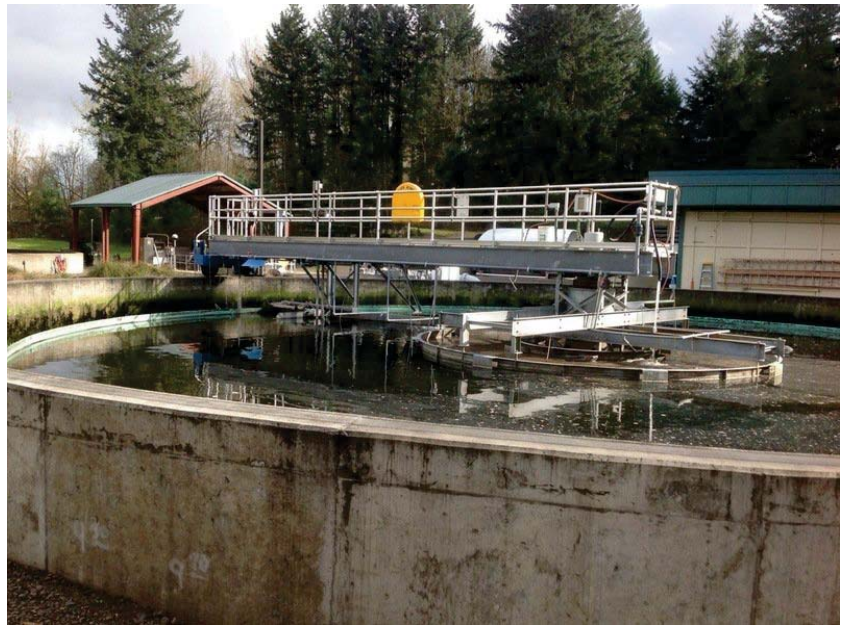
## Secondary Treatment

Created	2019-03-27 00:10:48 UTC by Tony Van Haverbeke
Updated	2019-05-28 18:52:18 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	16:50
Area or Function	Secondary Treatment

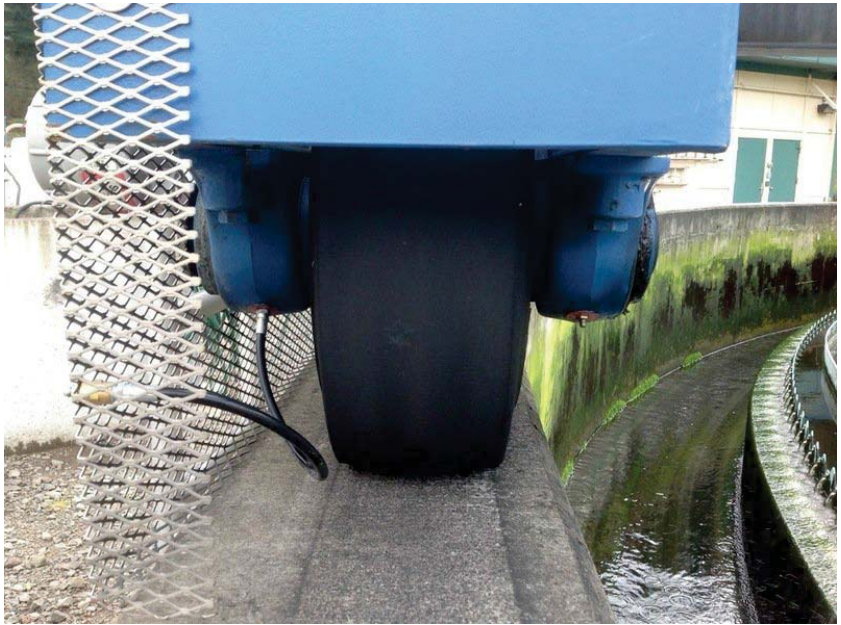
## Asset Description/Equipment List

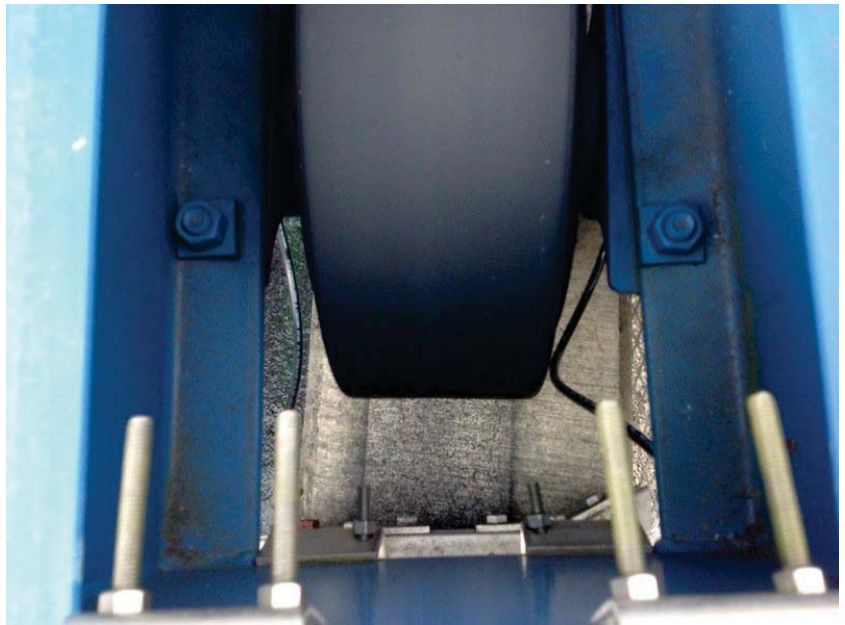
Secondary Treatment	Secondary Clarifier #3, CLR50-00103
Station ID	CLR50-00103
Asset Description	Secondary Clarifier #3
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Slight oil leak between motor and gearbox

Photos



















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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Secondary Treatment

Created	2019-03-27 00:10:43 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:07:27 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	17:19
Area or Function	Secondary Treatment
Station ID	LCP50-10103
What type of Asset?	Electrical

## Electrical

Description	Sec Clarifier #3 Control Panel
Field Observations/Comments	Did not Inspect
Assessment By (names)	Simon Watson



## Secondary Treatment

Created	2019-03-27 00:10:45 UTC by Tony Van Haverbeke
Updated	2019-03-27 00:10:45 UTC by Tony Van Haverbeke
Location	0.0, 0.0
Area or Function	Secondary Treatment
Station ID	PG-50-3-1-VFD
What type of Asset?	Electrical

## Electrical

Description	RAS Pump #1 VFD
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## Secondary Treatment

Created	2019-03-27 00:10:45 UTC by Tony Van Haverbeke
Updated	2019-03-27 00:10:45 UTC by Tony Van Haverbeke
Location	0.0, 0.0
Area or Function	Secondary Treatment
Station ID	PG-50-3-2-VFD
What type of Asset?	Electrical

## Electrical

Description	RAS Pump #2 VFD
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## Secondary Treatment

Created	2019-03-27 00:10:45 UTC by Tony Van Haverbeke
Updated	2019-03-27 00:10:45 UTC by Tony Van Haverbeke
Location	0.0, 0.0
Area or Function	Secondary Treatment
Station ID	PG-50-3-3-VFD
What type of Asset?	Electrical

## Electrical

Description	RAS Pump #3 VFD
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## Secondary Treatment

Created	2019-03-27 00:11:04 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:08:43 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	10:23
Area or Function	Secondary Treatment

## Asset Description/Equipment List

Secondary Treatment	RAS Pump #1, PMP50-03001
Station ID	PMP50-03001
What type of Asset?	Pumps and Motors
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	No issues

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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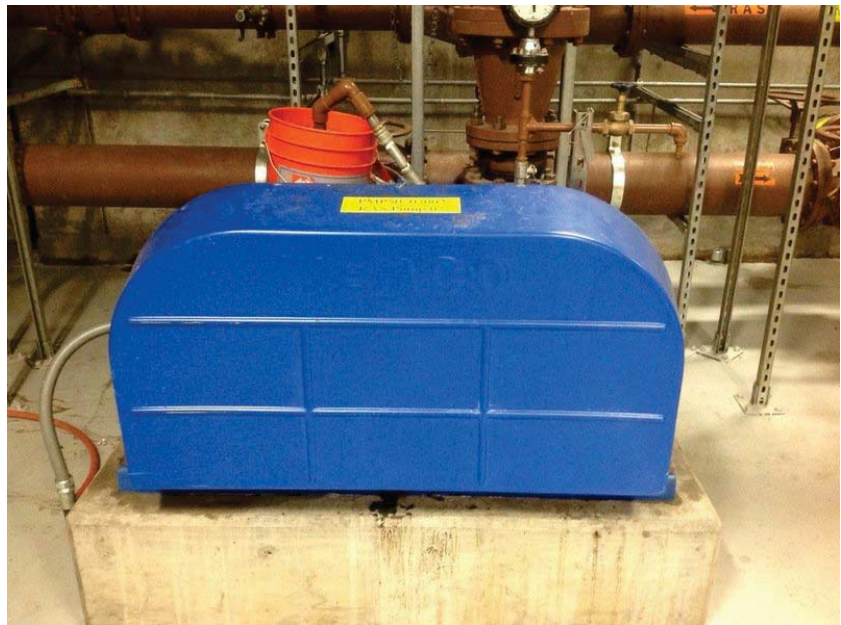
## Secondary Treatment

Created	2019-03-27 00:11:04 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:09:42 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	10:25
Area or Function	Secondary Treatment

## Asset Description/Equipment List

Secondary Treatment	RAS Pump #2, PMP50-03002
Station ID	PMP50-03002
What type of Asset?	Pumps and Motors
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	No Issues

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Secondary Treatment

Created	2019-03-27 00:11:05 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:08:12 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	10:18
Area or Function	Secondary Treatment

## Asset Description/Equipment List

Secondary Treatment	RAS Pump #3, PMP50-03003
Station ID	PMP50-03003
What type of Asset?	Pumps and Motors
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Slight leak on check valve packing

Photos







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City Staff Present (names)

None

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Assessment By (names)

Simon

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## Secondary Treatment

Created	2019-03-27 00:11:04 UTC by Tony Van Haverbeke
Updated	2019-04-25 19:09:14 UTC by 85 on matWn
Location	00.00
Date	2019-03-29
Time	10:22
Description	Secondary Treatment

## Equipment/Specifications

Secondary Treatment	u8 RFI p P#. RMR40-0300#
Station ID	RMR40-0300#
What type of DW?	RFI pump and Motor
Condition	2 - Slight visible degradation
Reason for Condition	1 - Component Affected Singly intended
Location	No Site alteration required
Field Observation	No SWF

Photo





City Staff Representative (name)

None

DWV Representative (name)

85 on mat

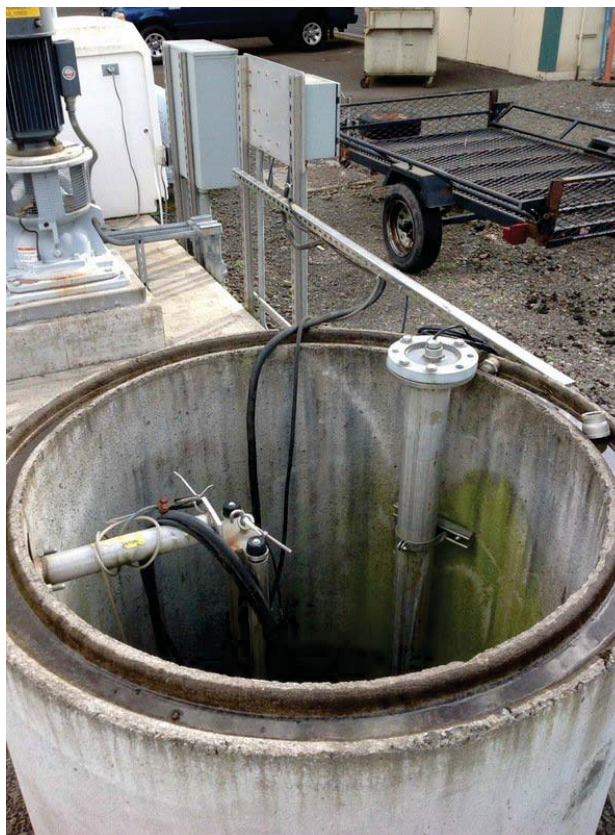
## Secondary Treatment

Created	2019-03-27 00:11:05 UTC by Tony Van Haverbeke
Updated	2019-05-28 18:51:26 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	16:44
Area or Function	Secondary Treatment

## Asset Description/Equipment List

Secondary Treatment	Scum Pump, PMP50-20100
Station ID	PMP50-20100
What type of Asset?	Pumps and Motors
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Not operating

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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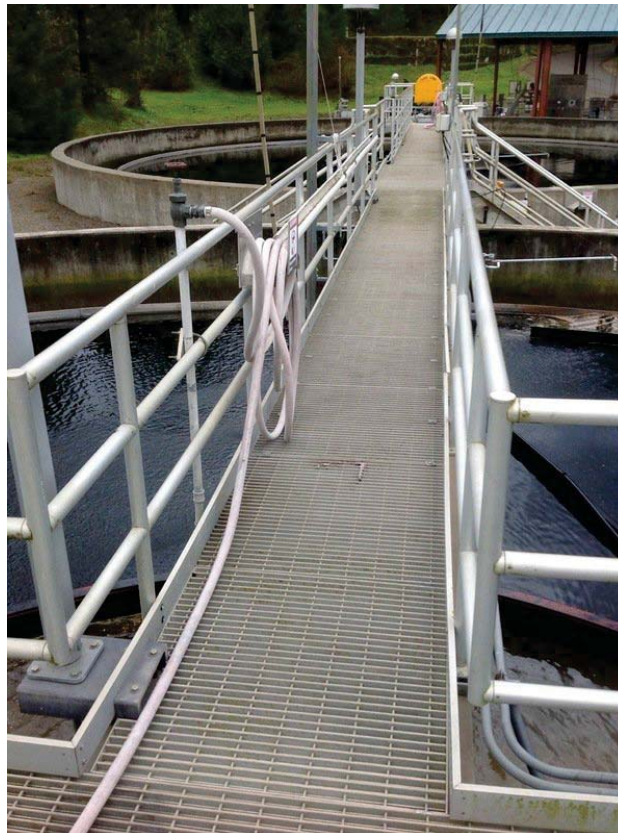
## Secondary Treatment

Created	2019-03-27 00:10:56 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:00:27 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	17:12
Area or Function	Secondary Treatment

## Asset Description/Equipment List

Secondary Treatment	Secondary Clarifier #1, SC-50-1-1
Station ID	SC-50-1-1
Asset Description	Secondary Clarifier #1
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	2 - In Service, but higher than Expected O&M
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Weir washers not working

Photos









Weir Washer not working







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City Staff Present (names)

None

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## Secondary Treatment

Created	2019-03-27 00:10:56 UTC by Tony Van Haverbeke
Updated	2019-05-28 18:55:06 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	17:04
Area or Function	Secondary Treatment

## Asset Description/Equipment List

Secondary Treatment	Secondary Clarifier #2, SC-50-1-2
Station ID	SC-50-1-2
Asset Description	Secondary Clarifier #2
What type of Asset?	Structural

## Structural

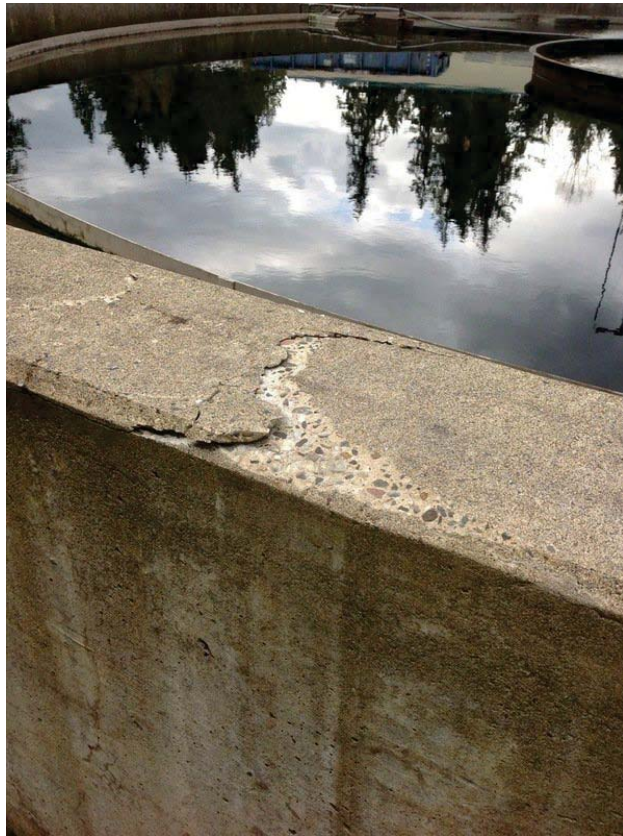
Field Observations	Spalling
Condition Score	3 - Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Spalling on upper wall by uv area One of the weir washers is not working

## Photos

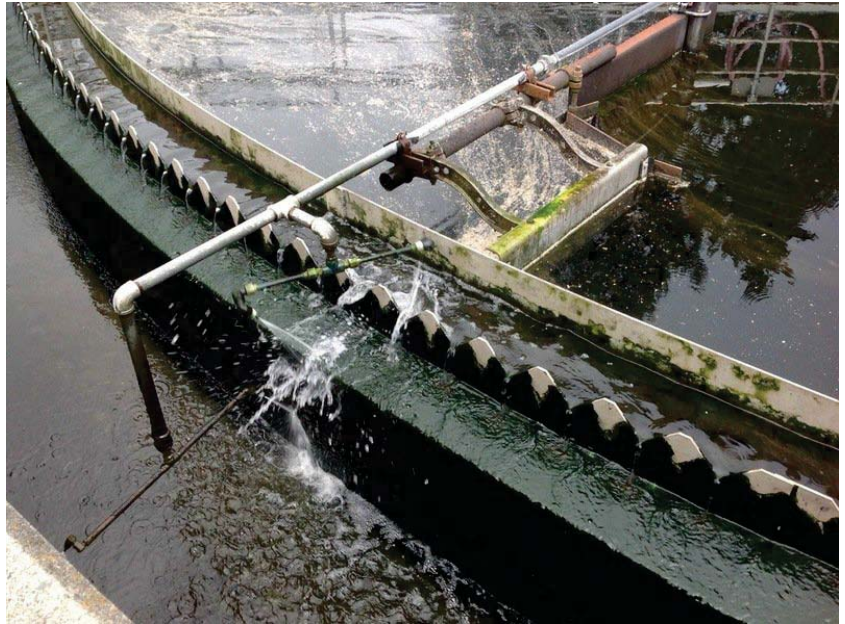








Concret damage



Weir washer not working





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Secondary Treatment

Created	2019-03-27 00:10:56 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:01:08 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	17:16
Area or Function	Secondary Treatment

## Asset Description/Equipment List

Secondary Treatment	Sec Clarifier #1 Weir Washer, SC-50-1-3
Station ID	SC-50-1-3
Asset Description	Sec Clarifier #1 Weir Washer
What type of Asset?	Mechanical
Condition Score	3 - Visible Degradation
Performance Score	4 - In Service, but Function is Highly Impaired
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Washer not working

Photos



City Staff Present (names)	None
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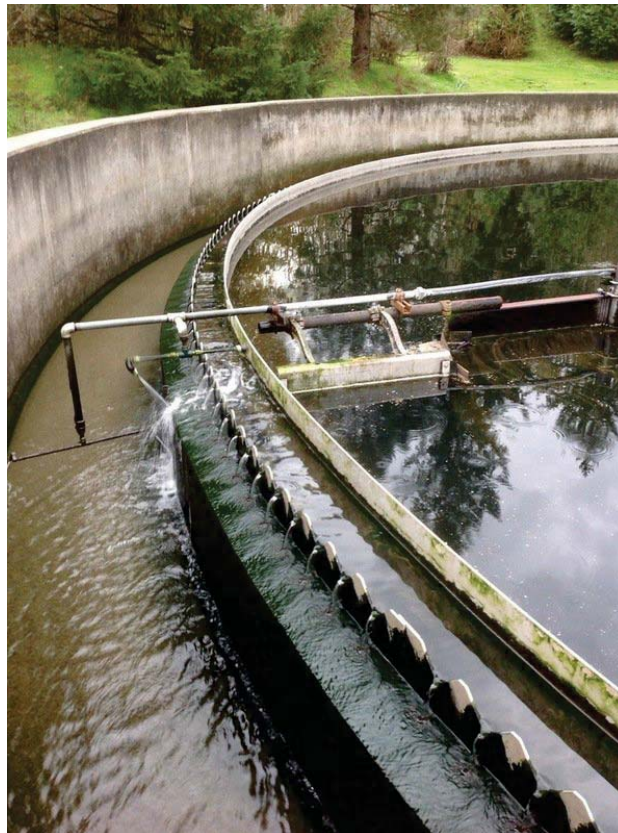
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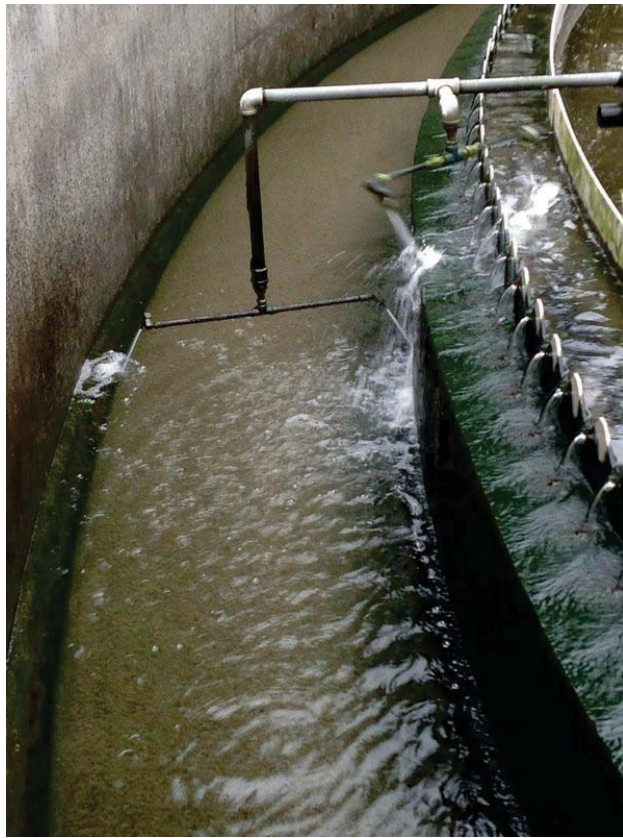
Created	2019-03-27 00:10:56 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:03:55 UTC by i rWons atLon
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Aate	2019-03-28
TrWe	17:18
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City of Atlanta Water

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## Secyodarb Ureatmeot

Created	2019-03-27 00:10:57 8 UC Tb Uyob nao VaHrTeve
8 kdated	2019-05-2p 1p:57:57 8 UC Tb Simyo Watsyo
Lycatiyo	0.0, 0.0
Date	2019-03-2p
Ume	17:09
Area yr Fuoctiyo	Secyodarb Ureatmeot

## Asset Descriktiyo M Euikmeot List

Secyodarb Ureatmeot	Secyodarb C Rrilier, g1 h ec#a0, SC-h -50-1-1
Statiyo ID	SC-h -50-1-1
Asset Descriktiyo	Secyodarb C Rrilier, g1 h ec#a0
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Citb Stall Rreseot (oames)

Myoe

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Assessmeot Bb (oames)

Simyo Watsyo

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## Secondary Treatment

Created	2019-03-27 00:10:57 UTC by Tony Van Haverbeke
Updated	2019-05-28 18:52:58 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	17:00
Area or Function	Secondary Treatment

## Asset Description/Equipment List

Secondary Treatment	Secondary Clarifier, #2 Mechan, SC-M-50-1-2
Station ID	SC-M-50-1-2
Asset Description	Secondary Clarifier, #2 Mechan
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Middle gearbox appears to be leaking oil into the process Torque meter at 40

Photos







City Staff Present (names)

None





## Secondary Treatment

Created	2019-03-27 00:11:05 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:34:20 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	16:39
Area or Function	Secondary Treatment

## Asset Description/Equipment List

Secondary Treatment	Secondary Effluent Pump #1, PMP53-10001
Station ID	PMP53-10001
What type of Asset?	Pumps and Motors
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Not in Operation

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Secondary Treatment

Created	2019-03-27 00:11:05 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:33:34 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	16:40
Area or Function	Secondary Treatment

## Asset Description/Equipment List

Secondary Treatment	Secondary Effluent Pump #2, PMP53-10002
Station ID	PMP53-10002
What type of Asset?	Pumps and Motors
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	No Operating

Photos





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City Staff Present (names)

None

Assessment By (names)

Simon Watson

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## Secondary Treatment

Created	2019-03-27 00:11:05 UTC by Tony Van Haverbeke
Updated	2019-05-28 19:27:45 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	16:42
Area or Function	Secondary Treatment

## Asset Description/Equipment List

Secondary Treatment	Secondary Effluent Pump #3, PMP53-10003
Station ID	PMP53-10003
What type of Asset?	Pumps and Motors
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Not in operation

Photos





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City Staff Present (names)

None

Assessment By (names)

Simon Watson

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## Effluent Cooling

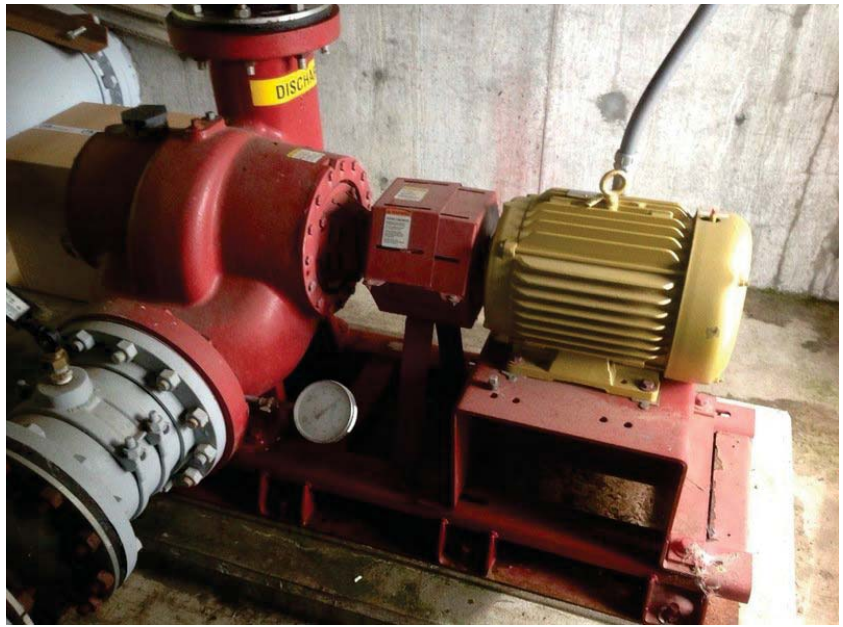
Created	2019-03-27 00:11:05 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:40:12 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	09:11
Area or Function	Effluent Cooling

## Asset Description/Equipment List

Effluent Cooling	Cooling Tower Pump #1, PMP55-10501
Station ID	PMP55-10501
What type of Asset?	Pumps and Motors
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Pump drained for winter

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Effluent Cooling

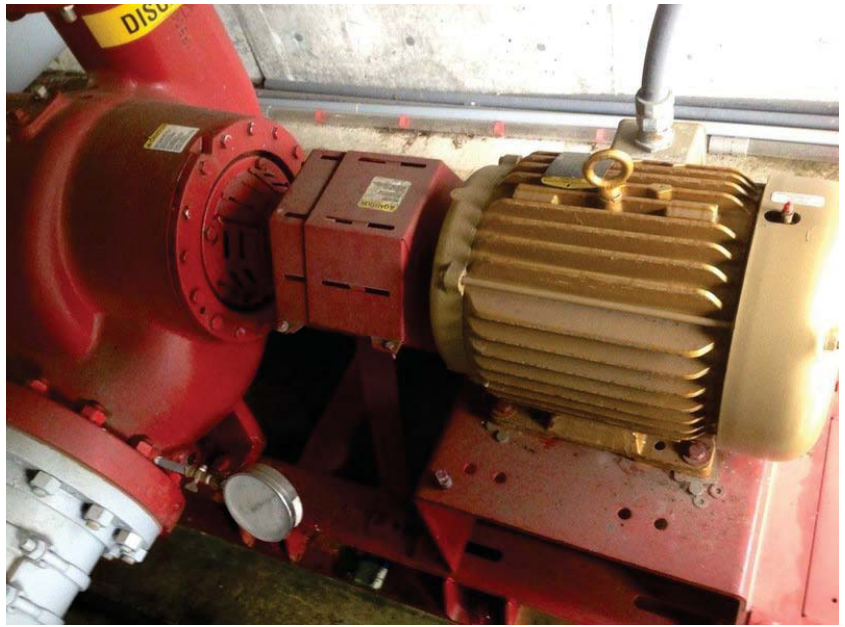
Created	2019-03-27 00:11:06 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:39:44 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	09:08
Area or Function	Effluent Cooling

## Asset Description/Equipment List

Effluent Cooling	Cooling Tower Pump #2, PMP55-10502
Station ID	PMP55-10502
What type of Asset?	Pumps and Motors
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Pump drained for the winter

Photos







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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Tertiary Treatment

Created	2019-03-27 00:10:61 UTC by Tony Van Haverbeke
Updated	2019-06-25 22:32:00 UTC by 85 on i ation
Version	010c010
. ate	2019-03-29
Time	05:62
, rea or DAnst4n	Tertiary Treatment

### , nmet . ensrpt4n? A4S ent V4n

Tertiary Treatment	. 4k Dfer u1c. DE0-10001
Station f.	. DE0-10001
, nmet . ensrpt4n	. 4k Dfer u1
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Condition score	2 - 8F# t V4n . e#radat4n
MergorS anse 8sore	1 - CoS ponent DAnst4n4# amfntended
lesoS S endat4n	ho 4 S ed4te ast4n re? A4ed
Def Rbnrvat4nntCoS S entm	Unable to 4npest 4n4le HoAn4 keep4# poor qask Oanh pAS p ran Ol 4e onnte and l ad a premAre og/0 pr4

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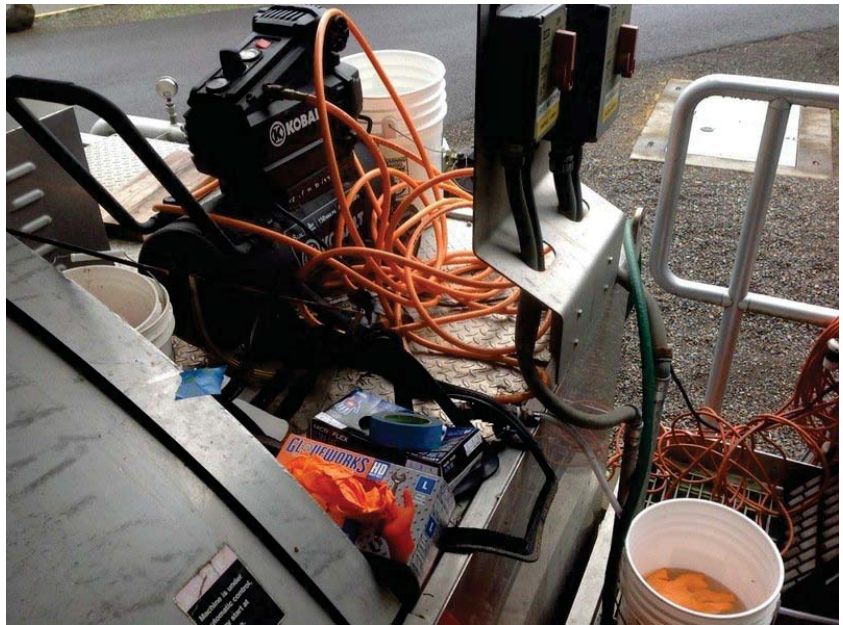












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## Tertiary Treatment

Created	2019-03-27 00:10:41 UTC by Tony Van Haverbeke
Updated	2019-04-25 22:31:22 UTC by 85 on matWn
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, ate	2019-03-29
TS e	05:47
Drea or AFnLion	Tertiary Treatment
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## Disinfection

Created	2019-03-27 00:11:22 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:28:49 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	16:09
Area or Function	Disinfection
Station ID	GTE70-10001
What type of Asset?	Valves

## Valves

Field Observations	Good condition
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Disinfection

Created	2019-03-27 00:11:22 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:29:23 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	16:07
Area or Function	Disinfection
Station ID	GTE70-10002
What type of Asset?	Valves

## Valves

Field Observations	Good condition
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Disinfection

Created	2019-03-27 00:10:43 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:26:37 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	16:34
Area or Function	Disinfection

## Asset Description/Equipment List

Disinfection	UV Main Control Panel, LCP70-12
Station ID	LCP70-12
What type of Asset?	Electrical

## Electrical

Description	UV Main Control Panel
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required

## Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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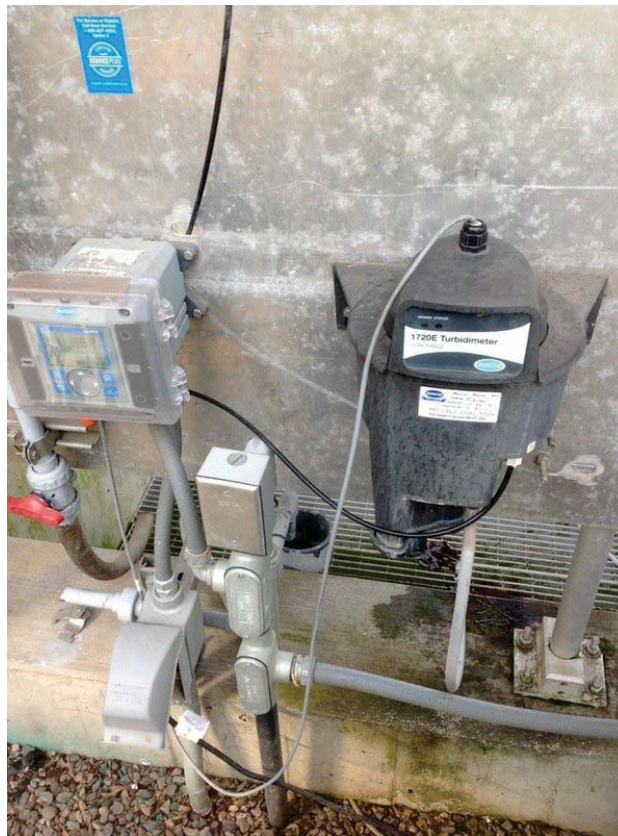
## Water Quality Monitoring

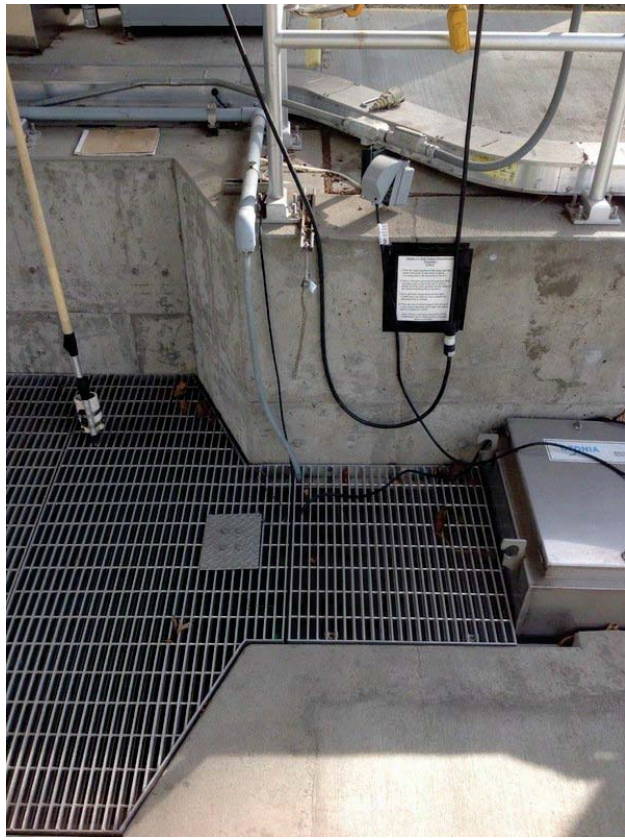
Created	2019-03-27 00:11:06 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:41:34 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	16:22
Area or Function	Water Quality Monitoring

## Asset Description/Equipment List

Water Quality	Effluent Turbidity Sample Pump, PMP70-21500
Station ID	PMP70-21500
What type of Asset?	Pumps and Motors
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Flow through turbidity meter appears to be good

Photos







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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Water E uafito I nVitriVP

Created	2019-03-27 00:10:5UT bC yo bnVo HaV v akeryepe
T8dated	2019-05-2U22:42:3UT bC yo SimnV WatsnV
LncatinV	0.0, 0.0
Date	2019-03-2U
bime	16:15
Area nr FuVctinV	Water E uafito I nVitriVP

## Asset Descri8tinV/#Qui8meVt List

Water E uafito	#WueVt Cnm8nsite Sam8fer I 2, TH-70-S-1-2
StatinV ID	TH-70-S-1-2
Asset Descri8tinV	#WueVt Cnm8nsite Sam8fer I 2
W? at to8e nAssetg	I ec? aVicaF
CnVditinV Scnre	2 - Sfip? t Hisiyfe DePradatinV
RerMrmaVce Scnre	1 - Cnm8nVeVt FuVctinViVP as IvteVded
NecnmmeVdatinV	qn immediate actinV reQuired

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AssessmeVt Bo (Vames)

SimnV WatsnV

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## Water Quality Monitoring

Created	2019-03-27 00:10:58 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:42:07 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	16:19
Area or Function	Water Quality Monitoring

## Asset Description/Equipment List

Water Quality	Effluent Composite Sampler #3 (on Secondary), UV-70-S-1-3
Station ID	UV-70-S-1-3
Asset Description	Effluent Composite Sampler #3 (on Secondary)
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Vent fans not plugged in

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Disinfection

Created	2019-03-27 00:10:59 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:26:03 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	08:22
Area or Function	Disinfection

## Asset Description/Equipment List

Disinfection	Trojan UV 4000 UV System, UV-M-70
Station ID	UV-M-70
Asset Description	Trojan UV 4000 UV System
What type of Asset?	Mechanical
Condition Score	3 - Visible Degradation
Performance Score	2 - In Service, but higher than Expected O&M
Recommendation	Initiate more detailed inspection
Field Observations/Comments	Not operating Appears to have been out of service for a long time Appears it would take quite some time to put it back in operation

Photos







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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Disinfection

Created	2019-03-27 00:10:59 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:25:27 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	08:29
Area or Function	Disinfection

## Asset Description/Equipment List

Disinfection	UV Module Winch Motor, UV-M-70-5
Station ID	UV-M-70-5
Asset Description	UV Module Winch Motor
What type of Asset?	Mechanical
Condition Score	1 - Excellent
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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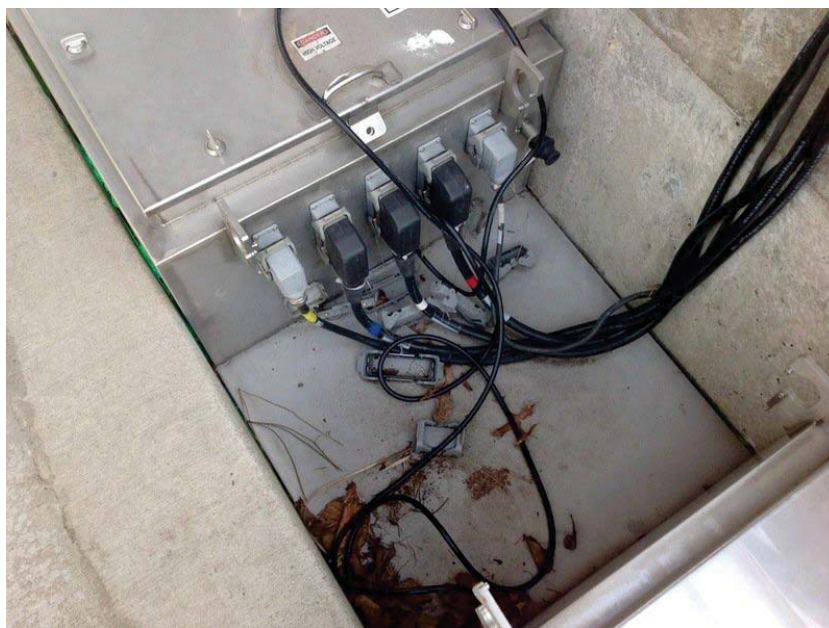
## Disinfection

Created	2019-03-27 00:10:59 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:28:11 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	16:28
Area or Function	Disinfection

## Asset Description/Equipment List

Disinfection	UV Module #1 Ozonia, UVM70-20001
Station ID	UVM70-20001
Asset Description	UV Module #1 Ozonia
What type of Asset?	Electrical
Condition Score	1 - Excellent
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required

Photos



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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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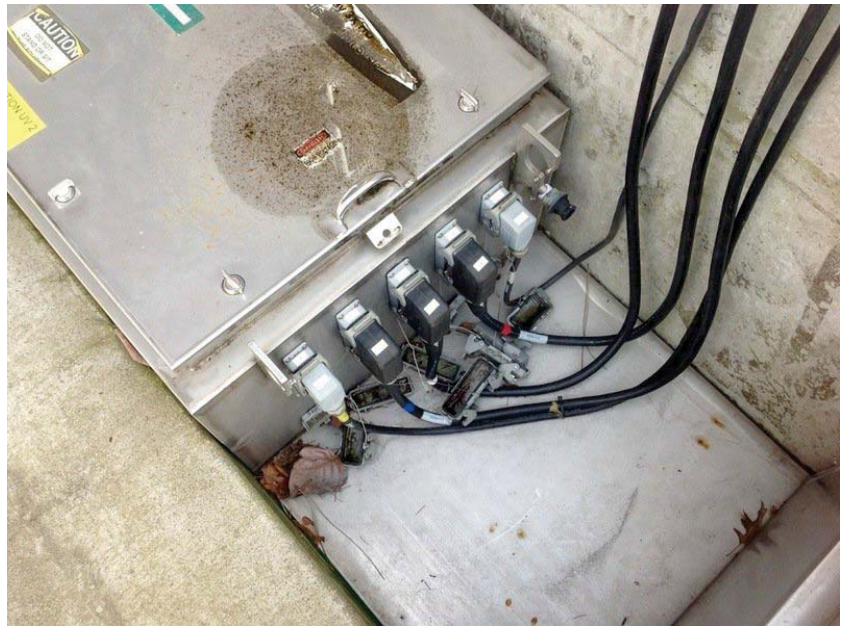
## Disinfection

Created	2019-03-27 00:10:59 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:27:45 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	16:30
Area or Function	Disinfection

## Asset Description/Equipment List

Disinfection	UV Module #2 Ozonia, UVM70-20002
Station ID	UVM70-20002
Asset Description	UV Module #2 Ozonia
What type of Asset?	Electrical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required

Photos



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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Disinfection

Created	2019-03-27 00:10:59 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:27:10 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	16:31
Area or Function	Disinfection

## Asset Description/Equipment List

Disinfection	UV Module #3 Ozonia, UVM70-20003
Station ID	UVM70-20003
Asset Description	UV Module #3 Ozonia
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required

Photos



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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## 4n5W, eE aterS/f

Created	2019-03-27 00:10:6UT bC yo bnVo HaV v akeryepe
T5dated	2019-08-2U22:26:08 T bC yo 4S nV matWV
snLatSv	0d. 0d
, ate	2019-03-2U
bS e	13:18
Drea nr AFVltSv	4n5W, eE aterS/f

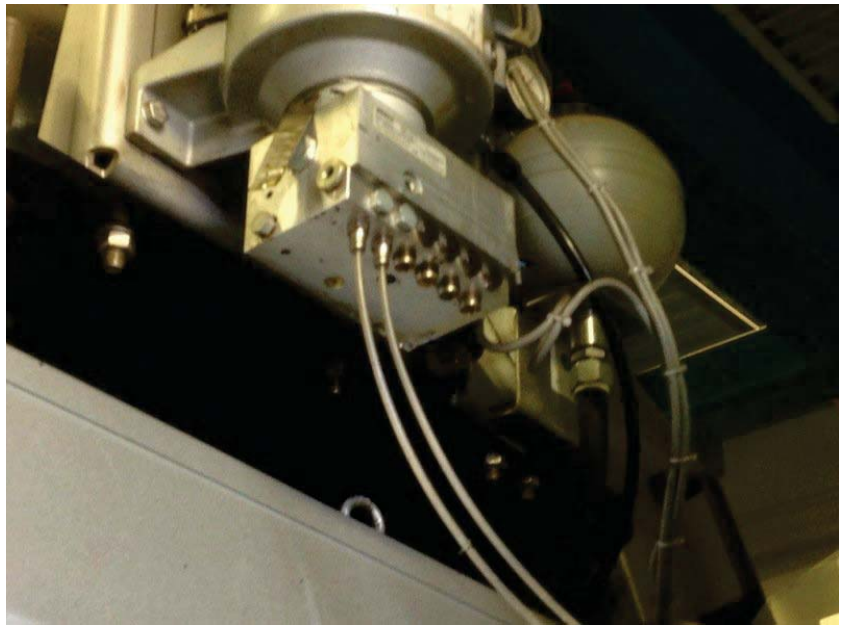
## DWet, eVrStSvqoFSi eVt sSv

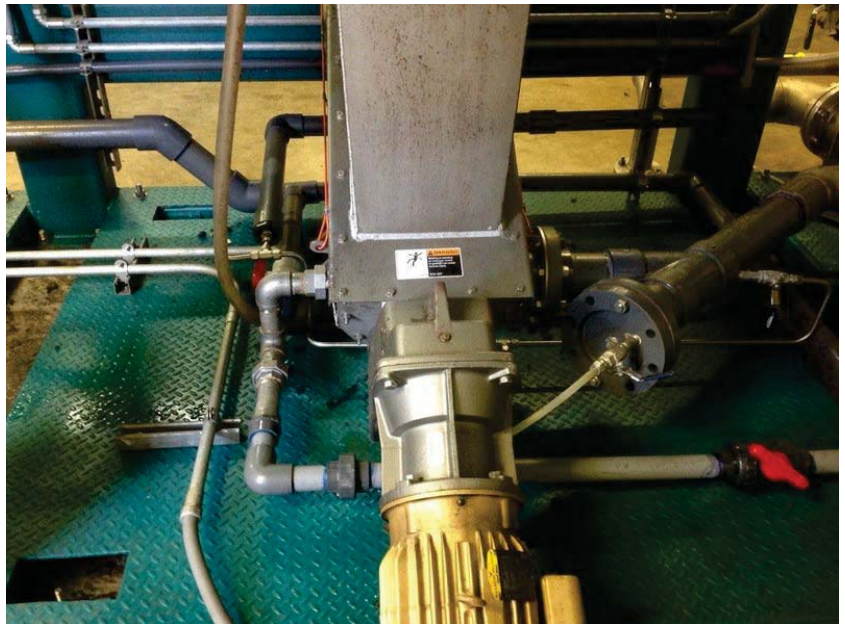
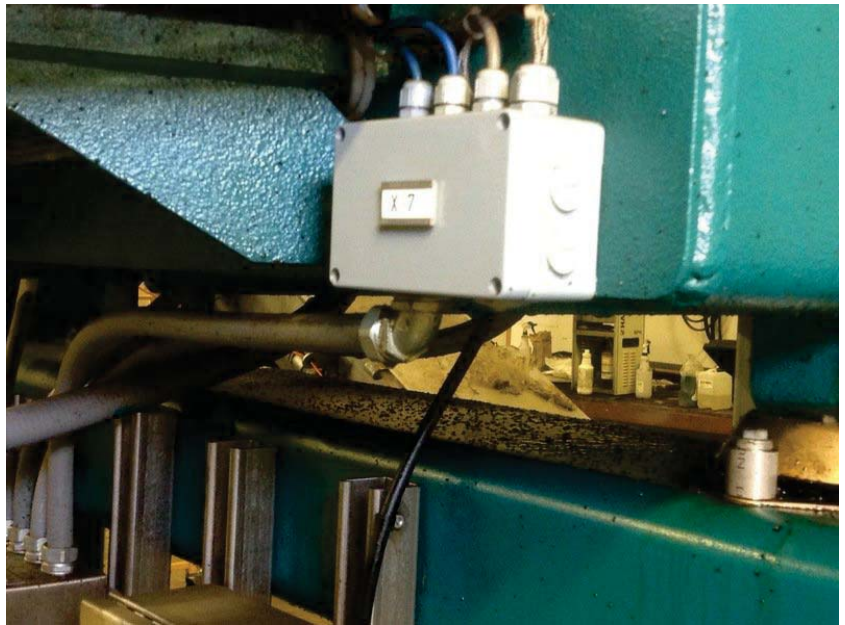
4n5W, eE aterS/f	CeVtrSFf e g1. CwP 7U-10301
4tatSv #	CwP 7U-10301
DWet, eVrStSv	CeVtrSFf e g1
mMat to5e nl DWetl	h eLMvS.au
CnVdSv 4Lnre	2 - 4S M HSv, ef radatSv
?erlnri aVLe 4Lnre	1 - Cni 5nVeVt AFVltSvS/f aW#teVded
Relni i eVdatSv	4LMedFue LnrrreLske altSv E nrp nrder Vear teri
ASud NyVrkatSvWcni i eVtW	Pnt S/ n5eratSv NSdrS5S/f Irni LeVtrSFf auFyrLatSv WWei

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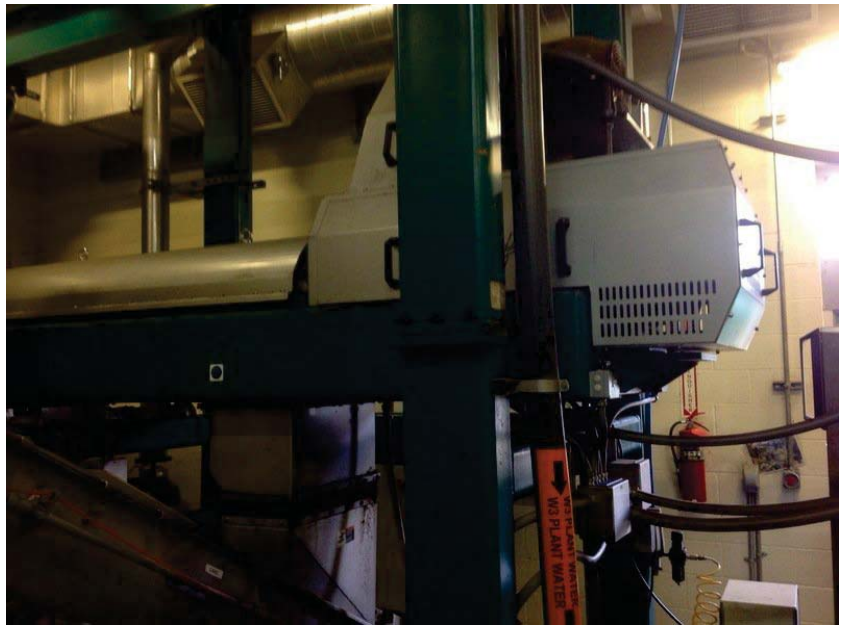












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T5dated	2019-08-2U1U:37:0UT bC yo4S nV matWV
snLatSv	00.00
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## DWet, eWrtStSv0 NFSi eVt sSv

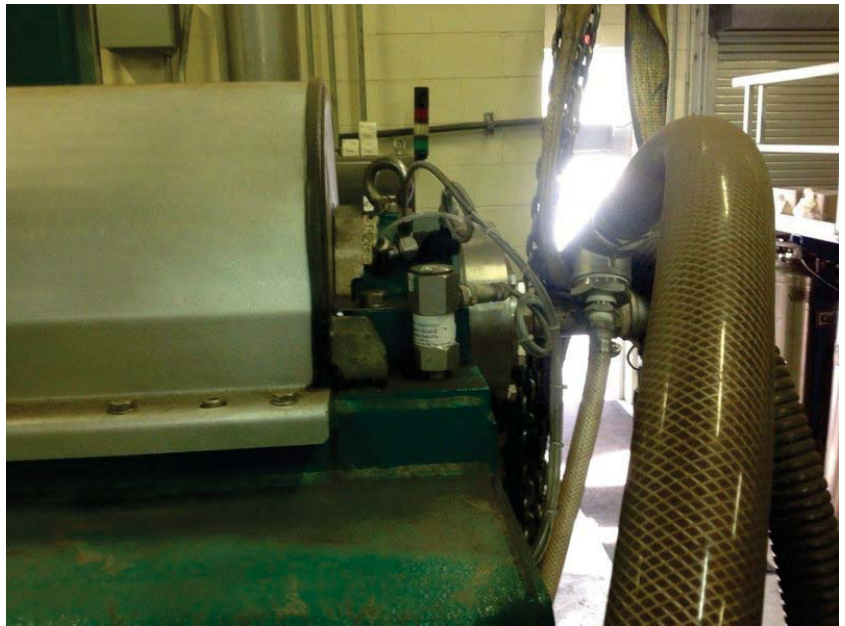
4n5W, eE aterS/f	Cl g 7U-10302
4tatSv w	Cl g 7U-10302
DWet, eWrtStSv	CeVtrSf e #2
mMat to5e nPDWetl	h eLMVsu
CnVdSv 4Lnre	2 - 4S M HSve, ef radatSv
?erPhri aVLe 4Lnre	1 - Cni 5nVeVt AFVltSvS/f aWVteVded
ReLni i eVdatSv	g n S i edSite aLtSv reNFSed
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## Solids Drying

Created	2019-03-27 00:10:49 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:02:34 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	13:32
Area or Function	Solids Drying
Station ID	CNV78-30201
Asset Description	Cent #1 Discharge Conveyor
What type of Asset?	Mechanical

## Mechanical

Field Observations	Leaking
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Not in operation Liner looks to be in good shape

Photos









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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## SyRds Drbiol

Created	2019-03-27 00:10:50 8 UC Tb Uj ob nao VaHrTeve
8 kdated	2019-05-2p 22:03:07 8 UC Tb Simyo Watsyo
Lycatiyo	0.0, 0.0
Date	2019-03-2p
Ume	13:30
Area yr Fuoctiyo	SyRds Drbiol

## Asset Descriktiyo / uikmeot List

SyRds Drbiol	Ceot g2 Discharl e CyoHbyr, C#n7p-30202
Statiyo ID	C#n7p-30202
Asset Descriktiyo	Ceot g2 Discharl e CyoHbyr
What tbke yf Asset?	MechaocaP

## MechaocaP

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Cyoditiyo Scyre	2 - SRI ht nisiTR Del radatiyo
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FieRl OTserHatiyosCymmeots	#yt io ykeratiyo Lioer Byvvs io l yyd shake #yt sure x hat the EqE aod rave are fyr yo the cyoHbyr

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Assessmeot Bb (oames)

Simyo Watsyo

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## Solids Drying

Created	2019-03-27 00:10:43 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:04:01 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-26
Time	17:14
Area or Function	Solids Drying
Station ID	LCP78-11
What type of Asset?	Electrical

## Electrical

Description	Centrifuge #1 Control Panel
Field Observations	Dusty
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
City Staff Present (names)	None
Assessment By (names)	Simon Watson





## Solids Drying

Created	2019-03-27 00:10:44 UTC by Tony Van Haverbeke
Updated	2019-03-27 00:10:44 UTC by Tony Van Haverbeke
Location	0.0, 0.0
Area or Function	Solids Drying
Station ID	LCP78-12
What type of Asset?	Electrical

## Electrical

Description	Centrifuge #2 Control Panel
-------------	-----------------------------



## Solids Drying

Created	2019-03-27 00:10:55 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:01:31 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	13:41
Area or Function	Solids Drying

## Asset Description/Equipment List

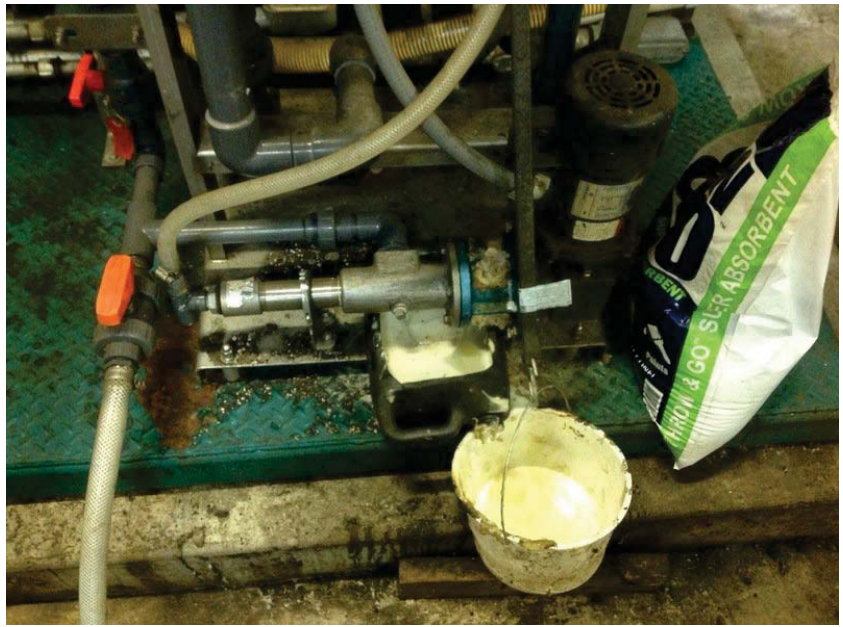
Solids Drying	Centrifuge #1 Polyblend Unit, PLB78-31001
Station ID	PLB78-31001
Asset Description	Centrifuge #1 Polyblend Unit
What type of Asset?	Mechanical

## Mechanical

Field Observations	Leaking
Condition Score	2 - Slight Visible Degradation
Performance Score	2 - In Service, but higher than Expected O&M
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Polymer leaking from packing

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Solids Drying

Created	2019-03-27 00:10:56 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:01:58 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	13:38
Area or Function	Solids Drying

## Asset Description/Equipment List

Solids Drying	Centrifuge #2 Polyblend Unit, PLB78-31002
Station ID	PLB78-31002
Asset Description	Centrifuge #2 Polyblend Unit
What type of Asset?	Mechanical

## Mechanical

Field Observations	Leaking
Condition Score	2 - Slight Visible Degradation
Performance Score	2 - In Service, but higher than Expected O&M
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Polymer leaking from packing

Photos





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City Staff Present (names)

None

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Assessment By (names)

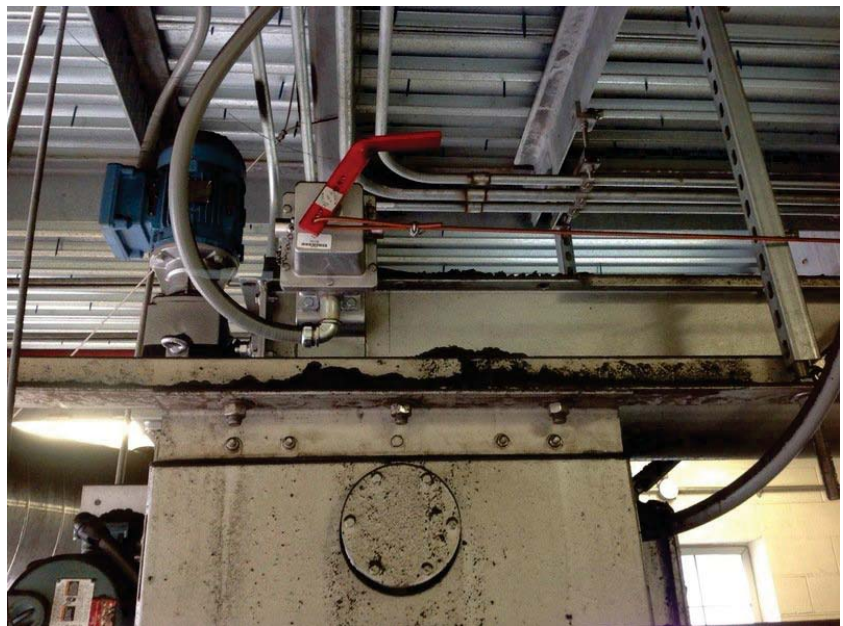
Simon Watson

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## Solids Drying

Created	2019-03-27 00:10:49 UTC by Tony Van Haverbeke
Updated	2019-05-28 21:33:44 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	14:15
Area or Function	Solids Drying
Station ID	CNV78-10100
Asset Description	Load Out Distribution Conveyor
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Visually appears to be in good order A lot of dry product in the room

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Solids Drying

Created	2019-03-27 00:10:49 UTC by Tony Van Haverbeke
Updated	2019-03-27 00:10:49 UTC by Tony Van Haverbeke
Location	0.0, 0.0
Area or Function	Solids Drying
Station ID	CNV78-20200
Asset Description	Cake Bin Discharge Conveyor
What type of Asset?	Mechanical



## Solids Drying

Created	2019-03-27 00:10:49 UTC by Tony Van Haverbeke
Updated	2019-03-27 00:10:49 UTC by Tony Van Haverbeke
Location	0.0, 0.0
Area or Function	Solids Drying
Station ID	CNV78-20300
Asset Description	Dryer Feed Conveyor
What type of Asset?	Mechanical



## Solids Drying

Created	2019-03-27 00:10:49 UTC by Tony Van Haverbeke
Updated	2019-05-28 21:34:26 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	14:02
Area or Function	Solids Drying

## Asset Description/Equipment List

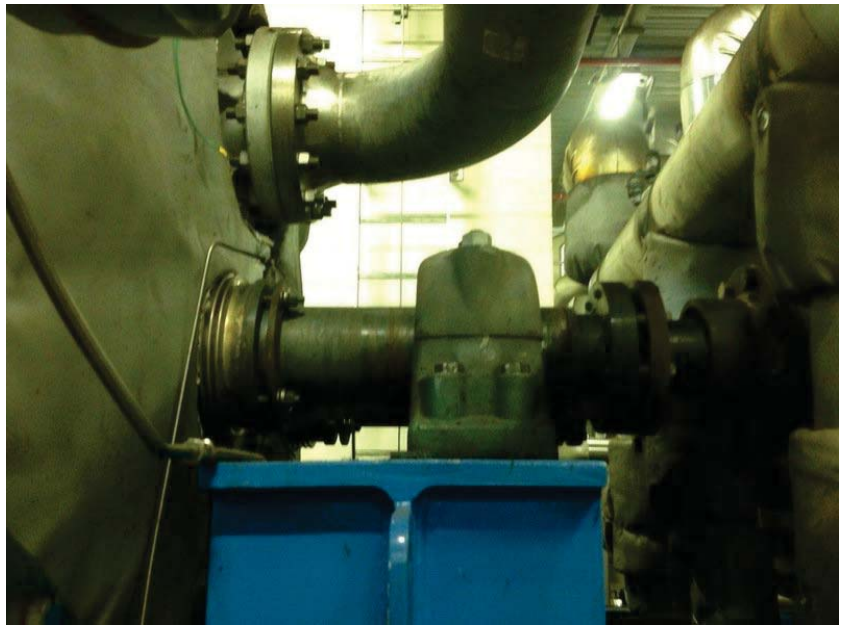
Solids Drying	Bio Solids Dryer, CNV78-20700
Station ID	CNV78-20700
Asset Description	Bio Solids Dryer
What type of Asset?	Mechanical

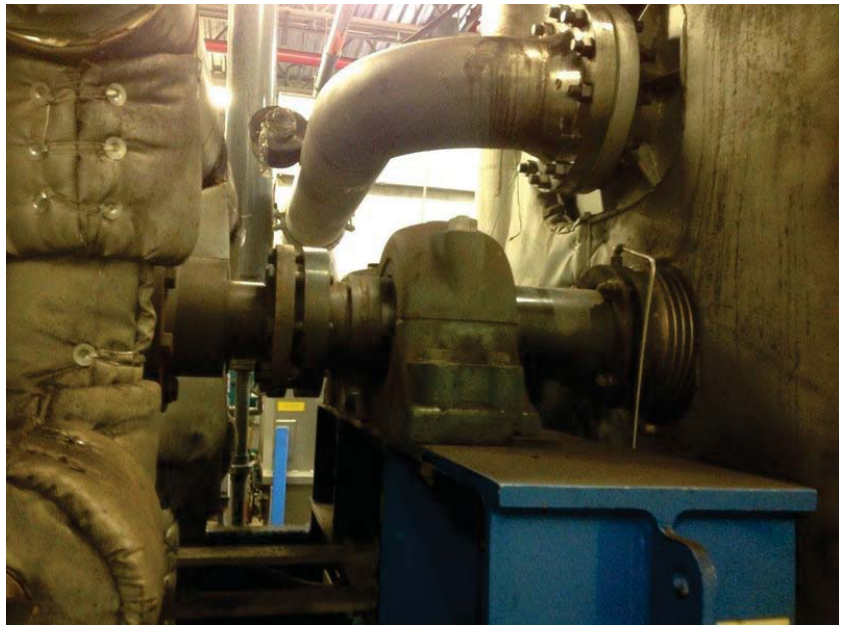
## Mechanical

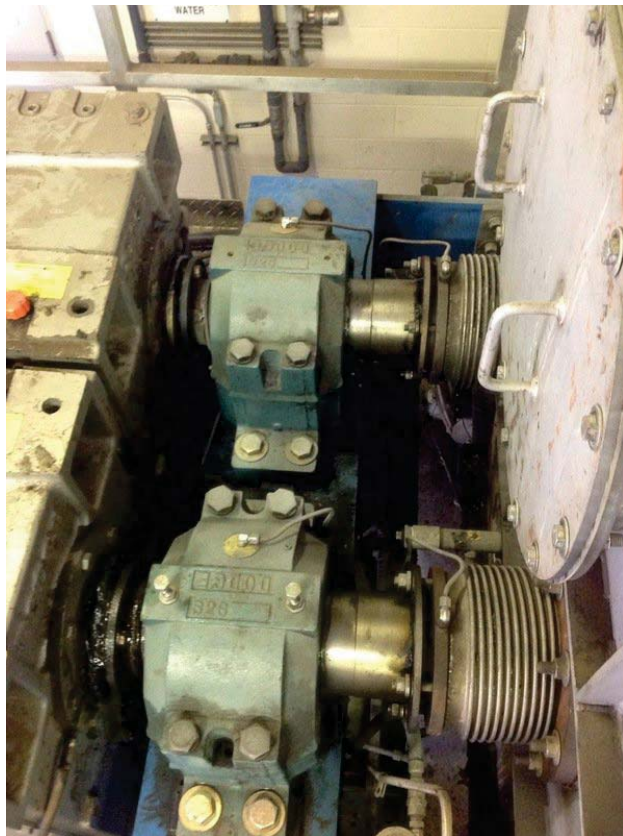
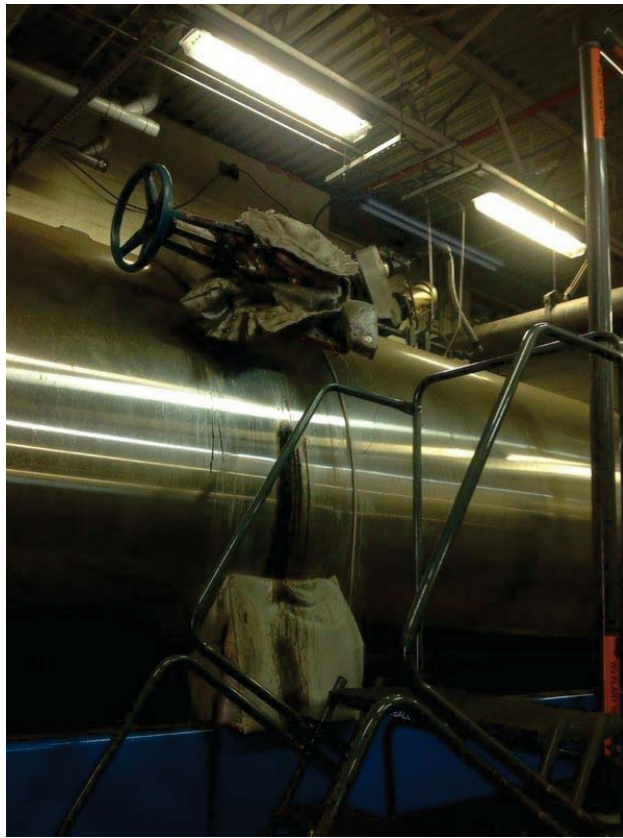
Field Observations	Leaking
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Some excessive grease around the drive shafts Side valve leaking

Photos

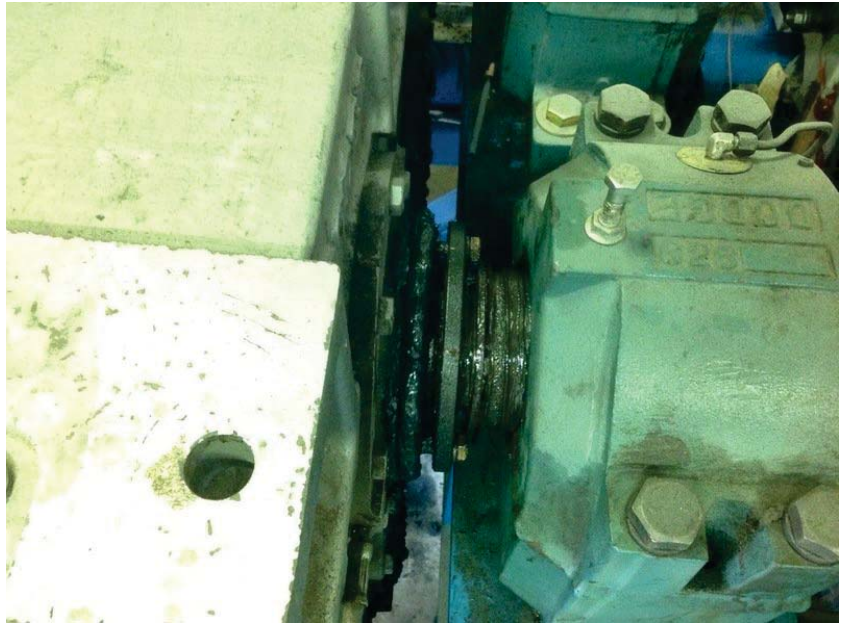














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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

---

## Solids Drying

Created	2019-03-27 00:10:49 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:00:14 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	13:54
Area or Function	Solids Drying

## Asset Description/Equipment List

Solids Drying	Dryer Discharge Conveyor, CNV78-20800
Station ID	CNV78-20800
Asset Description	Dryer Discharge Conveyor
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	2 - In Service, but higher than Expected O&M
Recommendation	No immediate action required
Field Observations/Comments	Appears that the conveyor has experienced some fires

Photos







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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Solids Drying

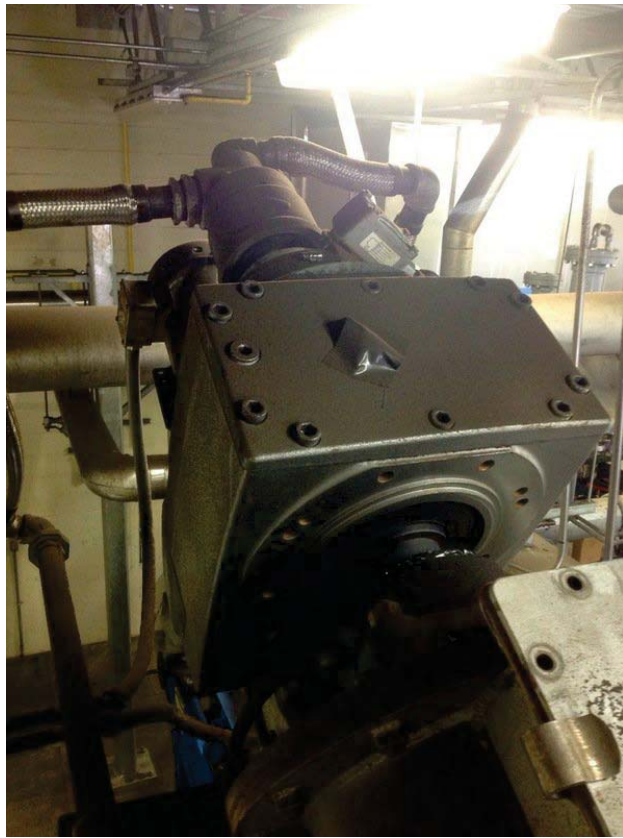
Created	2019-03-27 00:10:49 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:00:53 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	13:51
Area or Function	Solids Drying

## Asset Description/Equipment List

Solids Drying	Dry Product Cooling Conveyor, CNV78-20900
Station ID	CNV78-20900
Asset Description	Dry Product Cooling Conveyor
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Grease on drive shaft

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Solids Drying

Created	2019-03-27 00:10:50 UTC by Tony Van Haverbeke
Updated	2019-05-28 21:31:26 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	14:34
Area or Function	Solids Drying

## Asset Description/Equipment List

Solids Drying	Retractable Loadout Chute #1, CTE78-10201
Station ID	CTE78-10201
Asset Description	Retractable Loadout Chute #1
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Initiate more detailed inspection
Field Observations/Comments	Does not appear to be used Fully retracted with an empty bin

Photos



City Staff Present (names)	None
Assessment By (names)	Simon Watson



## Solids Dryinf

Created	2019-03-27 00:10:60 UTC by Tony Van Haverbeke
Updated	2019-06-25 20:84:87 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-25
Time	18:34
Area or Function	Solids Dryinf

## Asset Description Equipment List

Solids Dryinf	1 retractable Loadout Cgute w2, CTP75-10202
Station #	CTP75-10202
Asset Description	1 retractable Loadout Cgute w2
Weight type of Asset	mechanical
Condition Score	2 - Significant Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Initiate more detailed inspection
Field Observations/Comments	Does not appear to be used Fully retracted into an empty trailer

Photos



City Station Name/	( one
Assessment ) y Name/	Simon Watson



## Solids Drying

Created	2019-03-27 00:10:50 UTC by Tony Van Haverbeke
Updated	2019-06-03 16:35:29 UTC by Art Molseed
Location	0.0, 0.0
Date	2019-03-28
Time	14:38
Area or Function	Solids Drying

## Asset Description/Equipment List

Solids Drying	Retractable Loadout Chute #3, CTE78-10203
Station ID	CTE78-10203
Asset Description	Retractable Loadout Chute #3
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Does not appear to be used Fully retracted with an empty trailer and dry product coming out of chute

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Solids Drying

Created	2019-03-27 00:10:51 UTC by Tony Van Haverbeke
Updated	2019-05-28 20:47:56 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	14:43
Area or Function	Solids Drying

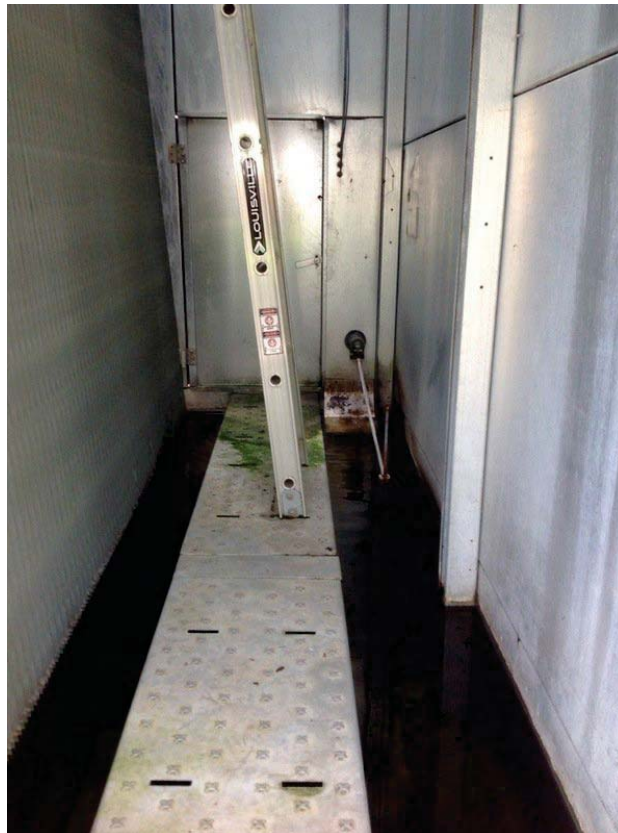
## Asset Description/Equipment List

Solids Drying	Dryer Condensate Cooling Tower, CTW78-40500
Station ID	CTW78-40500
Asset Description	Dryer Condensate Cooling Tower
What type of Asset?	Mechanical

## Mechanical

Field Observations	Leaking
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Unit not operating Over all condition looks good Water reservoir auto fill valve appears to be running constantly

Photos



Auto fill valve







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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Solids Drying

Created	2019-03-28 21:28:08 UTC by Simon Watson
Updated	2019-05-28 21:31:11 UTC by Simon Watson
Location	45.2947139506, -122.770791654
Date	2019-03-28
Time	14:28
Area or Function	Solids Drying
Station ID	HTR78_20400
Asset Description	Dryer Thermal Heater
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Operating no visible leaks

Photos







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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Solids Dewatering

Created	2019-03-27 00:10:53 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:23:09 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	13:35
Area or Function	Solids Dewatering
Station ID	PMP_20200
Asset Description	Thermal Heater System
What type of Asset?	Mechanical

## Mechanical

Field Observations	Leaking
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Sludge leaking from packing

Photos









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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Solids Drying

Created	2019-03-27 00:11:05 UTC by Tony Van Haverbeke
Updated	2019-08-24 20:68:13 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-24
Time	16:69
Area or Function	Solids Drying

## Asset Description Equipment List

Solids Drying	Dryer Condenser Sump wump, w74-60100
Station ID	w74-60100
What type of Asset?	wumps and Motors
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Post immediate action required
Field Observations/Comments	Put in operation of file on site

Photos



City/State Present (names)	Pone
Assessment By (names)	Simon Watson



## Odor Control

Created	2019-03-27 00:10:56 UTC by Tony Van Haverbeke
Updated	2019-05-28 20:42:10 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	13:44
Area or Function	Odor Control

## Asset Description/Equipment List

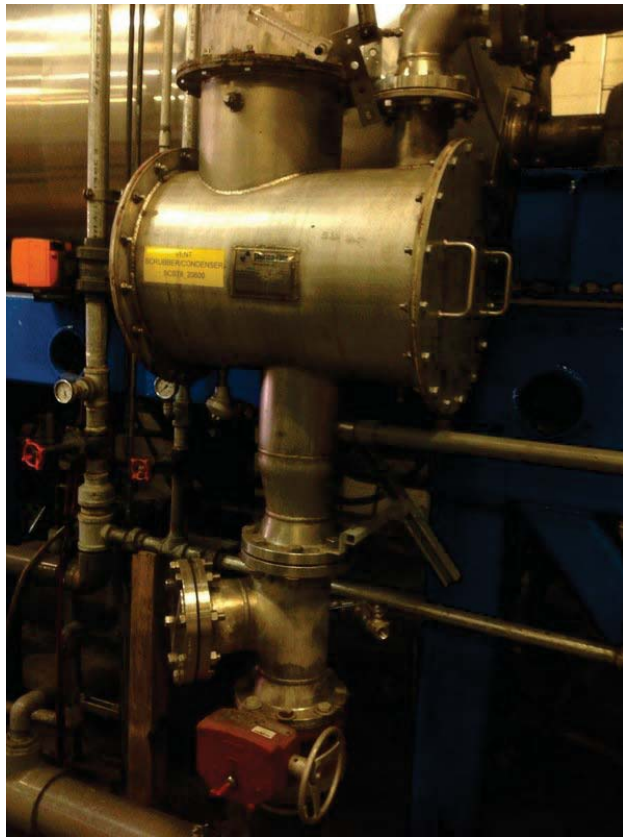
Odor Control	Vent Scrubber / Condenser, SCB78-20600
Station ID	SCB78-20600
Asset Description	Vent Scrubber / Condenser
What type of Asset?	Mechanical

## Mechanical

Field Observations	Leaking
Condition Score	3 - Visible Degradation
Performance Score	2 - In Service, but higher than Expected O&M
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Scrubber fan has excessive oil leaking out

Photos







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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Solids Drying

Created	2019-03-27 00:10:58 UTC by Tony Van Haverbeke
Updated	2019-03-27 00:10:58 UTC by Tony Van Haverbeke
Location	0.0, 0.0
Area or Function	Solids Drying
Station ID	TNK78-20100
Asset Description	Dryer Cake Bin
What type of Asset?	Mechanical



## Solids Dewatering

Created	2019-03-27 00:11:03 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:12:39 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	10:37
Area or Function	Solids Dewatering

## Asset Description/Equipment List

Solids Dewatering	Thickened Biosolids Pump, PGB-P-80-6
Station ID	PGB-P-80-6
What type of Asset?	Pumps and Motors
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Check valve may have a leak

Photos







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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Solids Dewatering

Created	2019-03-27 00:11:03 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:09:04 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	10:33
Area or Function	Solids Dewatering

## Asset Description/Equipment List

Solids Dewatering	Vogelsang TWAS Rotary Lobe Pump, PGB-P-80-8
Station ID	PGB-P-80-8
What type of Asset?	Pumps and Motors
Condition Score	1 - Excellent
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Not operating

Photos









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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Solids Dewatering

Created	2019-03-27 00:10:54 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:15:39 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	09:58
Area or Function	Solids Dewatering
Station ID	PG-M-80-3-1
Asset Description	GBT Hydraulic Unit #1
What type of Asset?	Mechanical

## Mechanical

Field Observations	Leaking
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Pump leaking

Photos



City Staff Present (names)	None
Assessment By (names)	Simon Watson



## Solids Dewatering

Created	2019-03-27 00:10:55 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:16:08 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	09:56
Area or Function	Solids Dewatering
Station ID	PG-M-80-3-2
Asset Description	GBT Hydraulic Unit #2
What type of Asset?	Mechanical

## Mechanical

Field Observations	Corrosion
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Not operating

Photos



City Staff Present (names)	None
Assessment By (names)	Simon Watson



## Solids Dewatering

Created	2019-03-27 00:10:55 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:15:12 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	09:59
Area or Function	Solids Dewatering

## Asset Description/Equipment List

Solids Dewatering	Gravity Belt Thickener #1, PG-M-80-4-1
Station ID	PG-M-80-4-1
Asset Description	Gravity Belt Thickener #1
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Not operating

Photos











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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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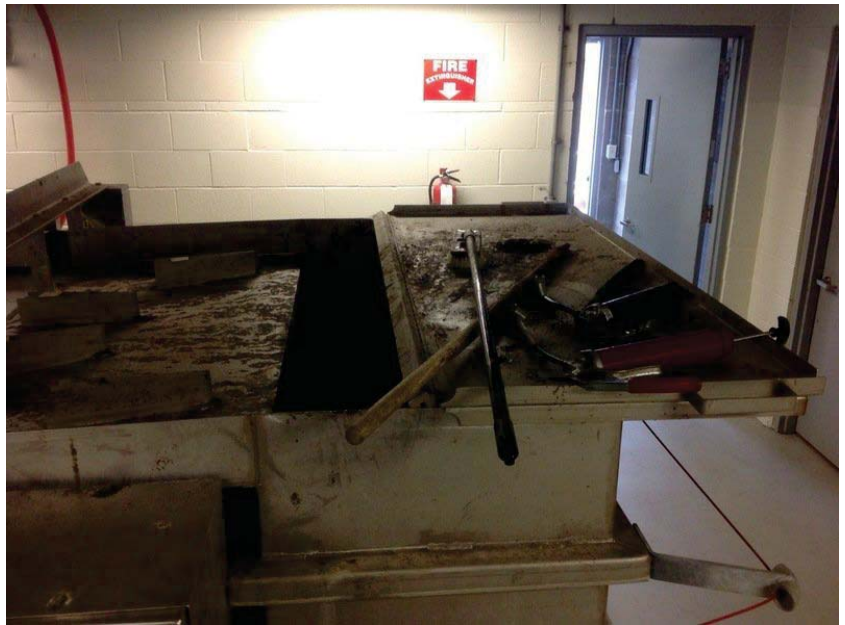
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TrWe	10:12
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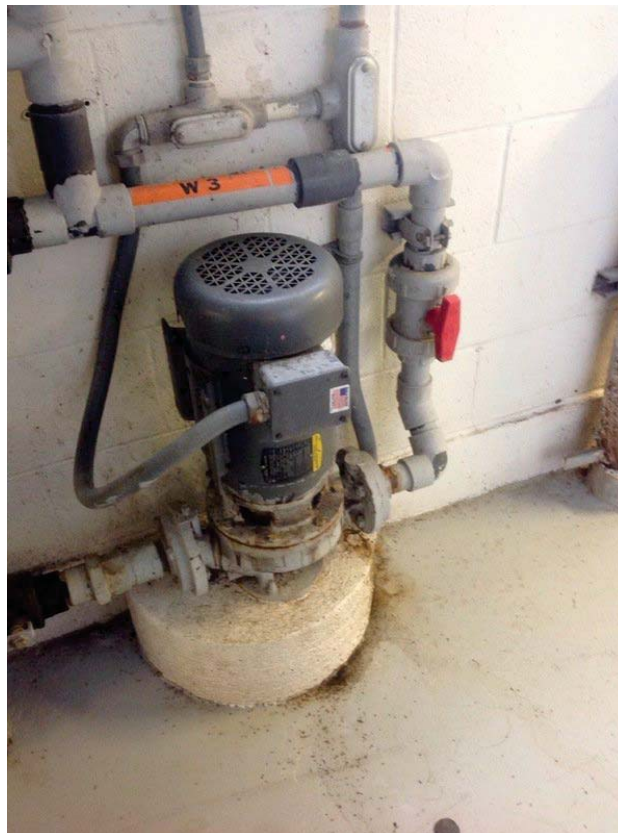
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P#otoL





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## Solids Dewatering

Created	2019-03-27 00:10:55 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:13:47 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	10:04
Area or Function	Solids Dewatering

## Asset Description/Equipment List

Solids Dewatering	Polymer Mix / Feed Unit #1, PG-M-81-1
Station ID	PG-M-81-1
Asset Description	Polymer Mix / Feed Unit #1
What type of Asset?	Mechanical

## Mechanical

Field Observations	Leaking
Condition Score	2 - Slight Visible Degradation
Performance Score	2 - In Service, but higher than Expected O&M
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Not operating

Photos







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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Solids Dewatering

Created	2019-03-27 00:10:55 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:13:21 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	10:06
Area or Function	Solids Dewatering

## Asset Description/Equipment List

Solids Dewatering	Polymer Injector / Mixer #2, PG-M-81-2
Station ID	PG-M-81-2
Asset Description	Polymer Injector / Mixer #2
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Not in operation

Photos









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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Solids Dewatering

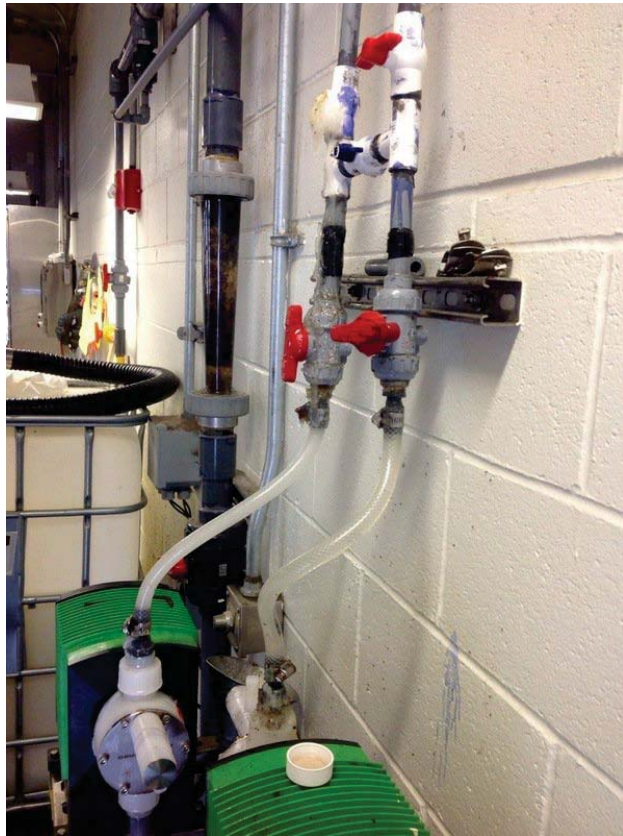
Created	2019-03-27 00:10:55 UTC by Tony Van Haverbeke
Updated	2019-05-28 18:45:47 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	10:07
Area or Function	Solids Dewatering
Station ID	PG-M-81-3
Asset Description	Polymer Injector / Mixer #1
What type of Asset?	Mechanical

## Mechanical

Field Observations	Leaking
Condition Score	2 - Slight Visible Degradation
Performance Score	2 - In Service, but higher than Expected O&M
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Discharge lines leaking

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Solids Handling

Created	2019-03-27 00:10:47 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:05:21 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	07:59
Area or Function	Solids Handling
Station ID	BS-M-82-1-1
Asset Description	Biosolids Storage Blower #1
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required

Photos







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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Solids Handling

Created	2019-03-27 00:10:48 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:05:53 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	07:56
Area or Function	Solids Handling
Station ID	BS-M-82-1-2
Asset Description	Biosolids Storage Blower #2
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Slight oil leak

Photos







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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Solids Dewatering

Created	2019-03-27 00:11:07 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:17:26 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	08:44
Area or Function	Solids Dewatering

## Asset Description/Equipment List

Solids Dewatering	Vogelsang GBT Feed Pump #1, PMP82-10003
Station ID	PMP82-10003
What type of Asset?	Pumps and Motors
Condition Score	1 - Excellent
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Grease or oil from motor area look like residue

Photos







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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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Date	2019-03-29
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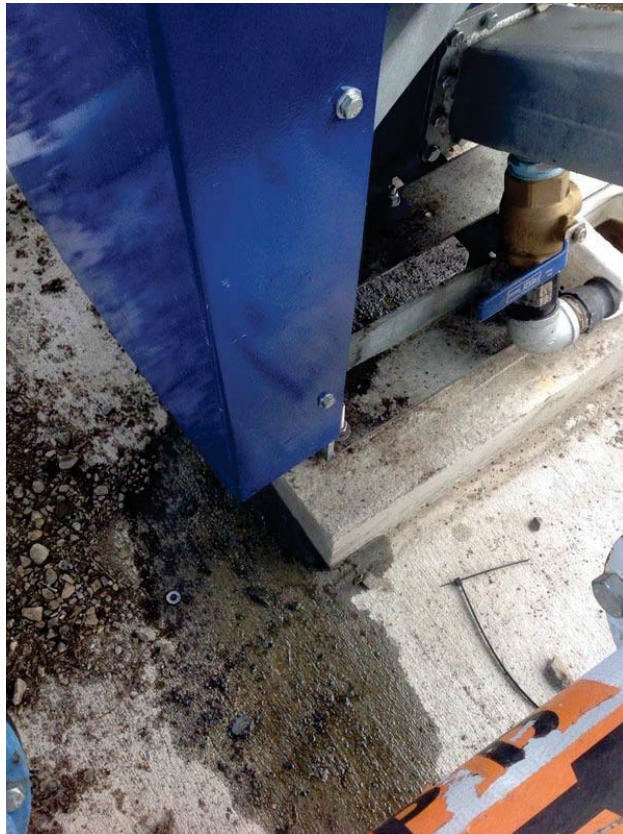
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## Solids Drying

Created	2019-03-27 00:11:07 UTC by Tony Van Haverbeke
Updated	2019-05-28 20:43:40 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	17:29
Area or Function	Solids Drying

## Asset Description/Equipment List

Solids Drying	Centrifuge Feed Pump #1, PMP82-20001
Station ID	PMP82-20001
What type of Asset?	Pumps and Motors
Condition Score	5 - Integrity of Component Severely Compromised
Performance Score	4 - In Service, but Function is Highly Impaired
Recommendation	Immediate corrective action required
Field Observations/Comments	Appears the pump experienced a major process leak. Insulation would have to be removed to determine where the leak is. Backflow device is leaking

## Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## W-3 Water

Created	2019-03-27 00:11:00 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:33:51 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	08:18
Area or Function	W-3 Water

## Asset Description/Equipment List

W-3 Water	W-3 Strainer / Motor, W-3-M-90-1
Station ID	W-3-M-90-1
Asset Description	W-3 Strainer / Motor
What type of Asset?	Mechanical

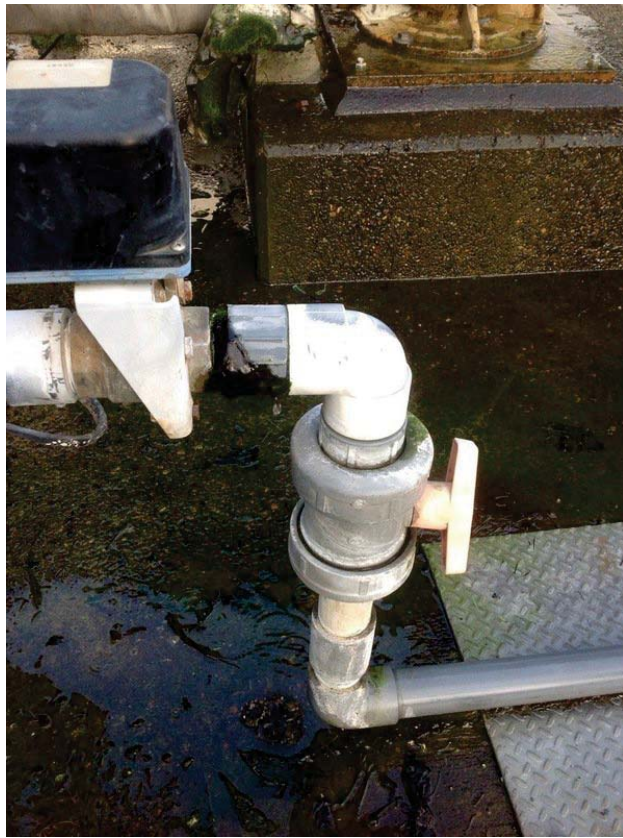
## Mechanical

Field Observations	Leaking
Condition Score	3 - Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Coating system failed Back flush water discharge line leaking

Photos







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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## W-3 Water

Created	2019-03-27 00:11:00 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:35:56 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	08:13
Area or Function	W-3 Water

### Asset Description/Equipment List

W-3 Water	W-3 Pump #1 Motor, W3-M-90-1-1
Station ID	W3-M-90-1-1
Asset Description	W-3 Pump #1 Motor
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## W-3 Water

Created	2019-03-27 00:11:00 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:35:08 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	08:15
Area or Function	W-3 Water

## Asset Description/Equipment List

W-3 Water	W-3 Pump #2 Motor, W3-M-90-1-2
Station ID	W3-M-90-1-2
Asset Description	W-3 Pump #2 Motor
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## W-3 Water

Created	2019-03-27 00:11:00 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:34:23 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	08:16
Area or Function	W-3 Water

## Asset Description/Equipment List

W-3 Water	W-3 Pump #3 Motor, W3-M-90-1-3
Station ID	W3-M-90-1-3
Asset Description	W-3 Pump #3 Motor
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## W-3 Water

Created	2019-03-27 00:11:09 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:38:10 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	08:09
Area or Function	W-3 Water

## Asset Description/Equipment List

W-3 Water	W-3 Submersible Pump #1, W3-P-90-1-1
Station ID	W3-P-90-1-1
What type of Asset?	Pumps and Motors

## Pumps and Motors

Field Observations	Leaking
Condition Score	3 - Visible Degradation
Performance Score	2 - In Service, but higher than Expected O&M
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Packing water leaking excessively

Photos





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City Staff Present (names)

None

Assessment By (names)

Simon Watson

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## W-3 Water

Created	2019-03-27 00:11:09 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:37:09 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	08:12
Area or Function	W-3 Water

## Asset Description/Equipment List

W-3 Water	W-3 Submersible Pump #2, W3-P-90-1-2
Station ID	W3-P-90-1-2
What type of Asset?	Pumps and Motors

## Pumps and Motors

Field Observations	Corrosion
Condition Score	3 - Visible Degradation
Performance Score	2 - In Service, but higher than Expected O&M
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Coating system failed

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## s -3 s ater

Created	2019-03-27 00:11:10 5 UC Tb Ujob nao VaHerTeve
5 kdated	2019-0p-28 22:37:S1 5 UC Tbi Wyo s atLyo
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UWe	08:07
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i tatory #	s 3-g-90-1-3
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## Solids Dewatering

Created	2019-03-28 21:55:55 UTC by Simon Watson
Updated	2019-05-28 22:22:27 UTC by Simon Watson
Location	45.29466672, -122.77044698
Date	2019-03-28
Time	14:55
Area or Function	Solids Dewatering
Asset Description	Odor Control Fan #1
What type of Asset?	Mechanical

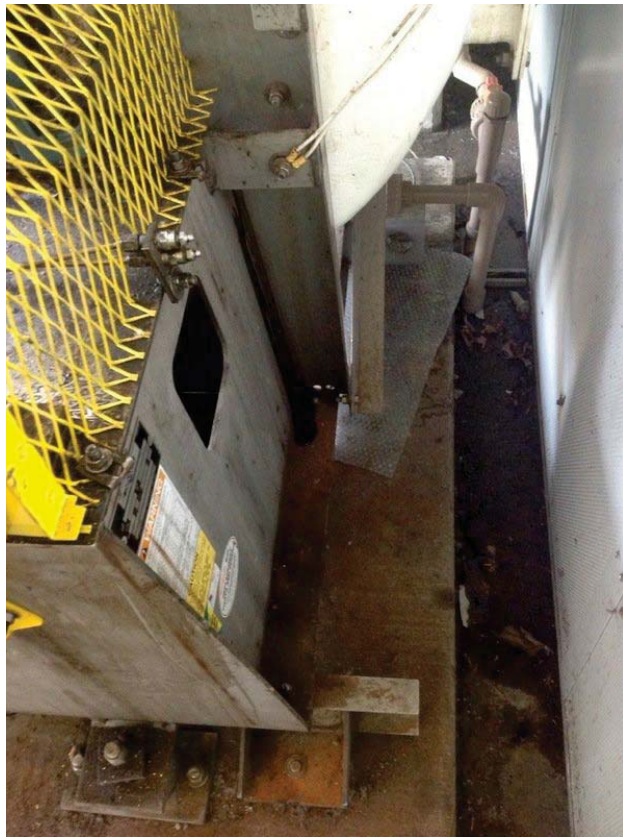
## Mechanical

Field Observations	Leaking
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Initiate more detailed inspection
Field Observations/Comments	Unit running smoothly Dripping black tar substance from fan. This comes from the solids dryer.

## Photos







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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Solids Dewatering

Created	2019-03-28 22:01:01 UTC by Simon Watson
Updated	2019-05-28 22:20:18 UTC by Simon Watson
Location	45.2946120495, -122.770431845
Date	2019-03-28
Time	15:01
Area or Function	Solids Dewatering
Asset Description	Odor Control Fan 2
What type of Asset?	Mechanical

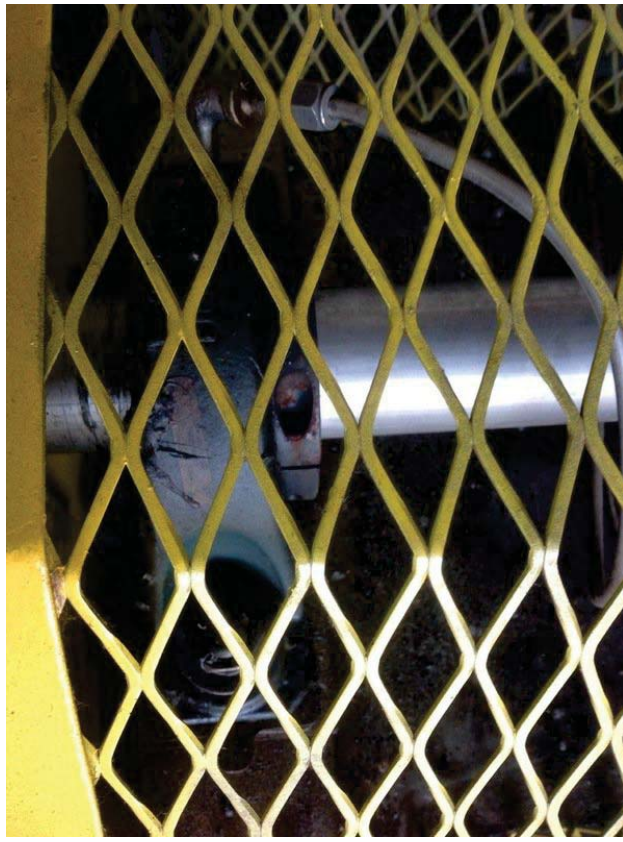
## Mechanical

Field Observations	Leaking
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Initiate more detailed inspection
Field Observations/Comments	Unit not in operation Dripping black tar substance from fan. This comes from the solids dryer. Potential over greasing of bearings Coating coming off outside sound proofing surround

Photos









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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Odor Control

Created	2019-03-27 00:10:51 UTC by Tony Van Haverbeke
Updated	2019-05-28 20:41:38 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	17:39
Area or Function	Odor Control

## Asset Description/Equipment List

Odor Control	Aeration Basin Ex Fan 30501, FAN91-30501
Station ID	FAN91-30501
Asset Description	Aeration Basin Ex Fan 30501
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Not in operation

Photos





## Odor Control

Created	2019-03-27 00:10:51 UTC by Tony Van Haverbeke
Updated	2019-05-28 20:41:08 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-28
Time	17:41
Area or Function	Odor Control

## Asset Description/Equipment List

Odor Control	Aeration Basin Em Bypass Fan, FAN91-30502
Station ID	FAN91-30502
Asset Description	Aeration Basin Em Bypass Fan
What type of Asset?	Mechanical

## Mechanical

Field Observations	Vibration
Condition Score	2 - Slight Visible Degradation
Performance Score	2 - In Service, but higher than Expected O&M
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Fan noise and vibrating

Photos



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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Building

Created	2019-03-27 00:11:11 UTC by Tony Van Haverbeke
Updated	2019-05-28 18:36:09 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	11:05
Area or Function	Building

## Asset Description/Equipment List

Building	Operations Building, 95BLD-01
Station ID	95BLD-01
What type of Asset?	Structural

## Structural

Field Observations	Leaking
Condition Score	3 - Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Gutters are full and need cleaning out Stucco falling off at secondary front entrance Several floor tiles damaged Stain on lab ceiling not sure if it is HVAC or roof Several pieces of baseboard missing on corners Storage close to electrical panels Several window leaks in break area No backflow device on hose bib in the back of the building

## Photos



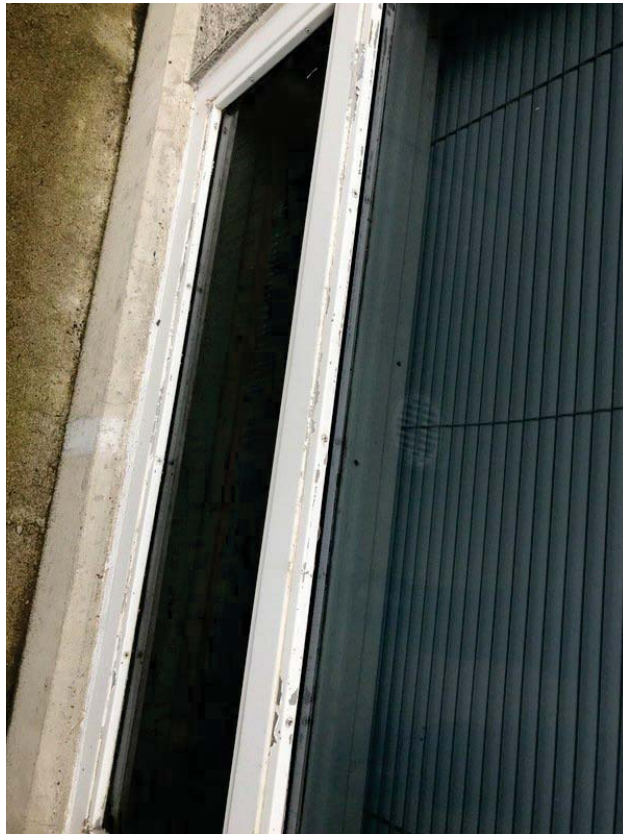
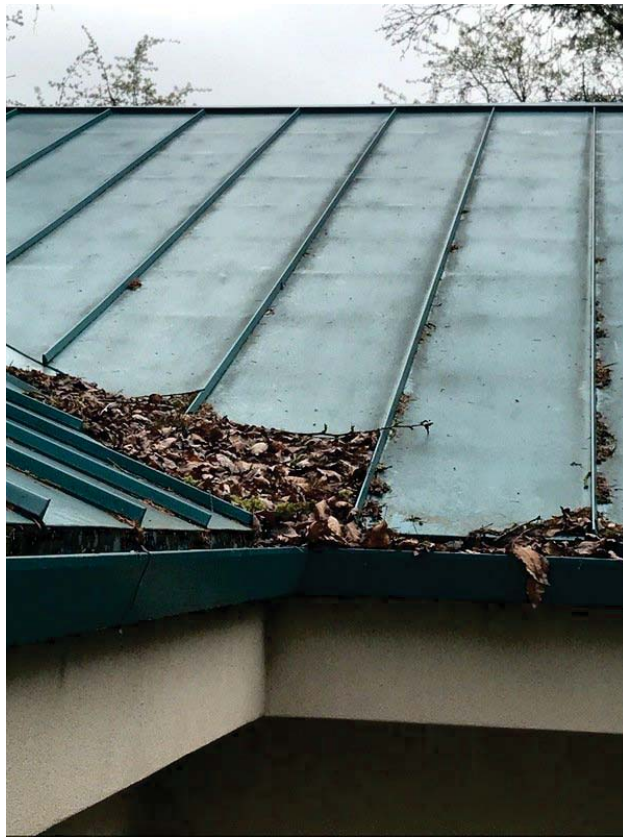
























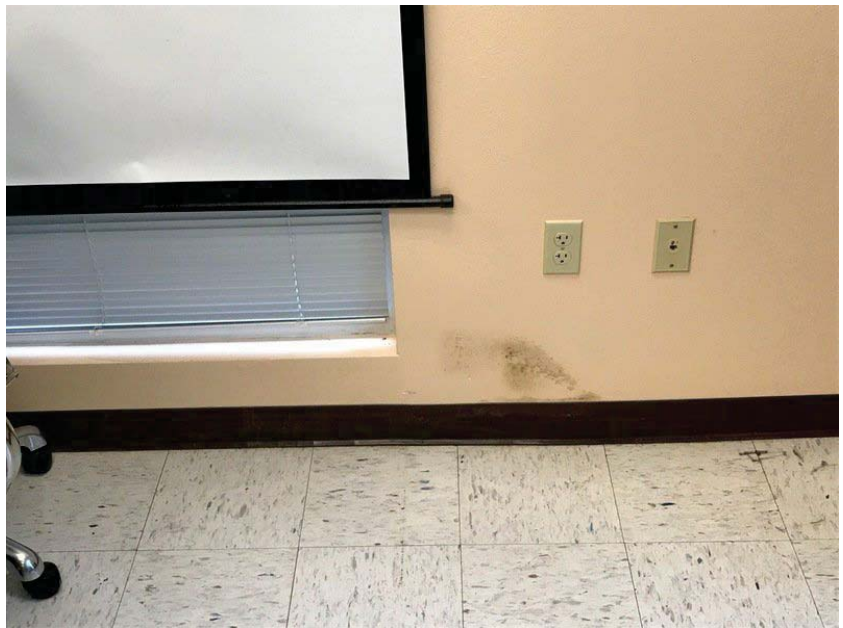
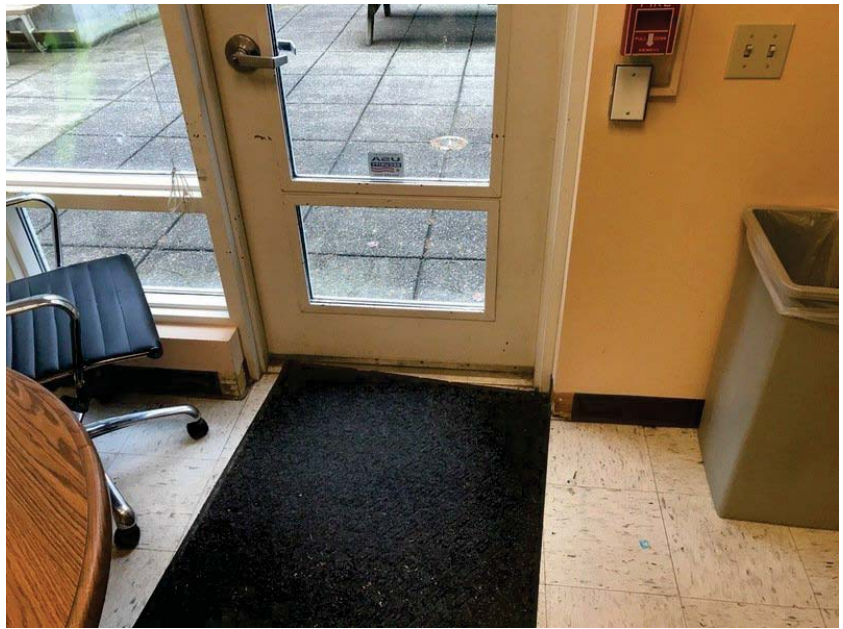




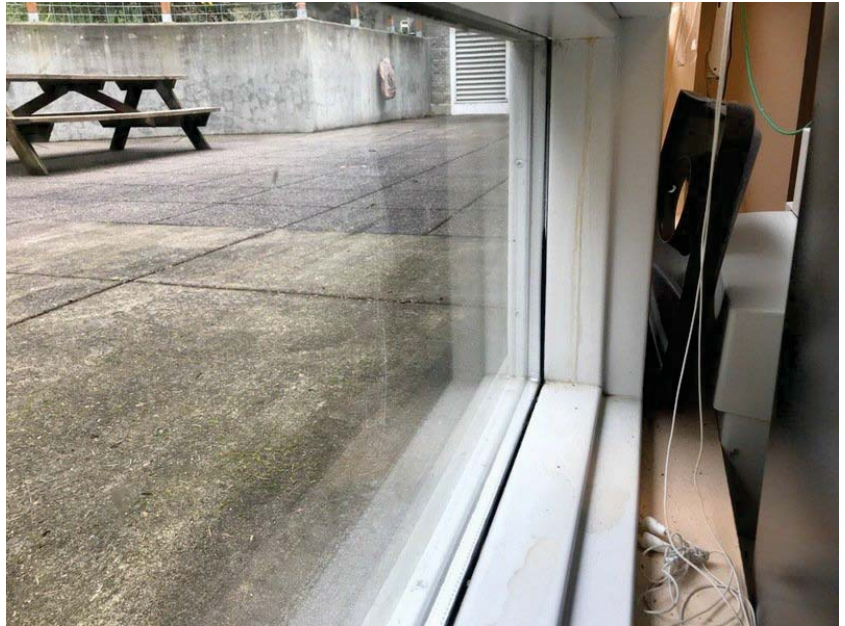








Mold on wall below screen



Back window in break room leaking



Windows under screen seem to be leaking

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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## uaLk Up I ower

Created	2019-03-27 00:10:62 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:66:07 UTC by 45 on matW0n
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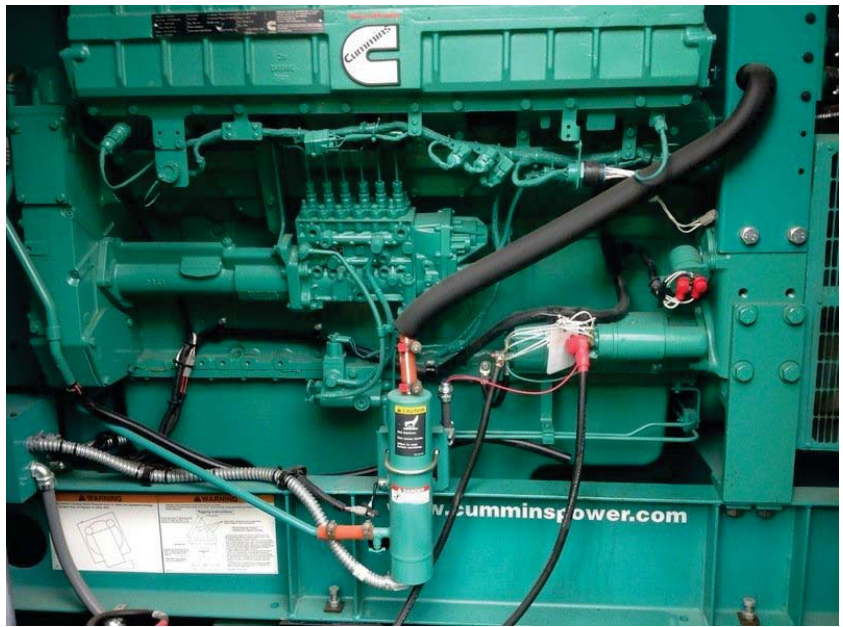
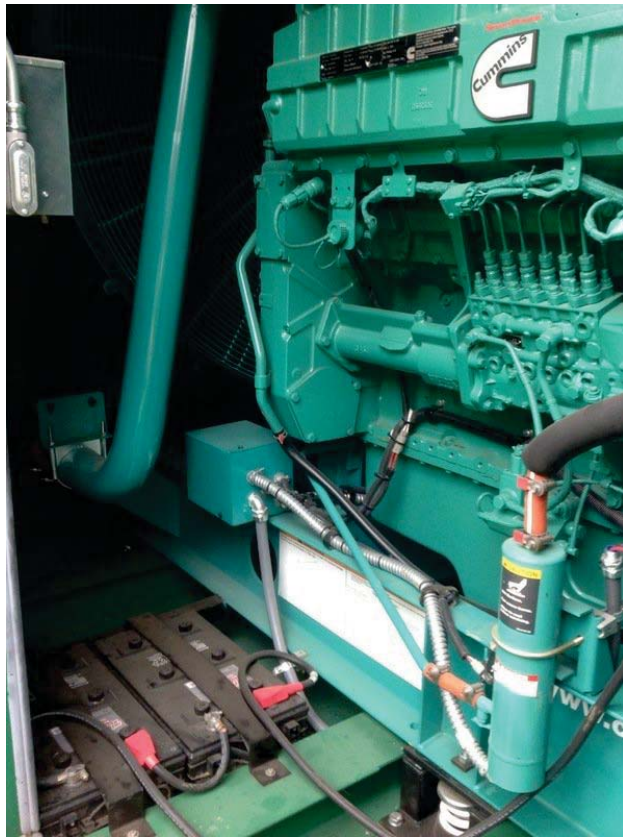
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## hRlLtrLaP

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## Back Up Power

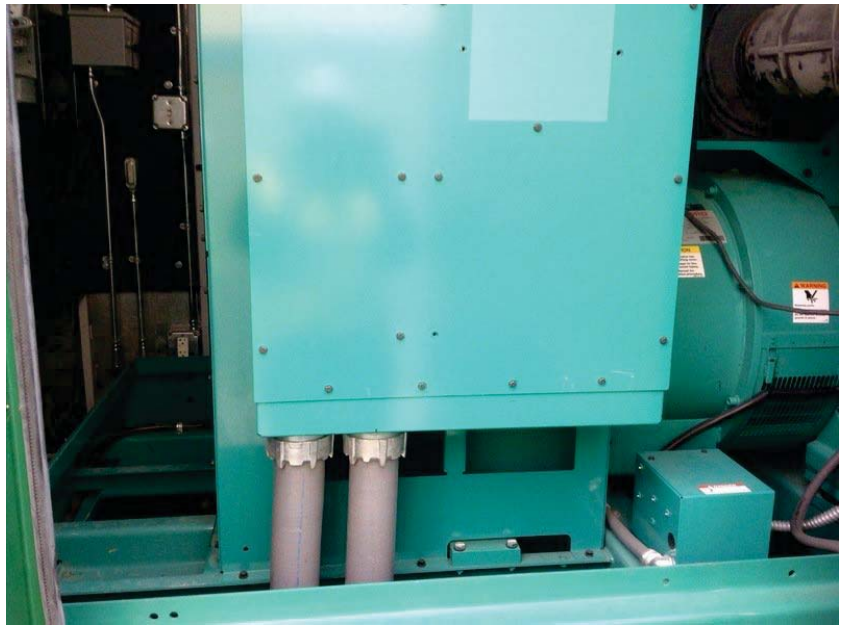
Created	2019-03-27 00:10:42 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:44:41 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	09:41
Area or Function	Back Up Power
Station ID	GEN-M-100-1
What type of Asset?	Electrical

## Electrical

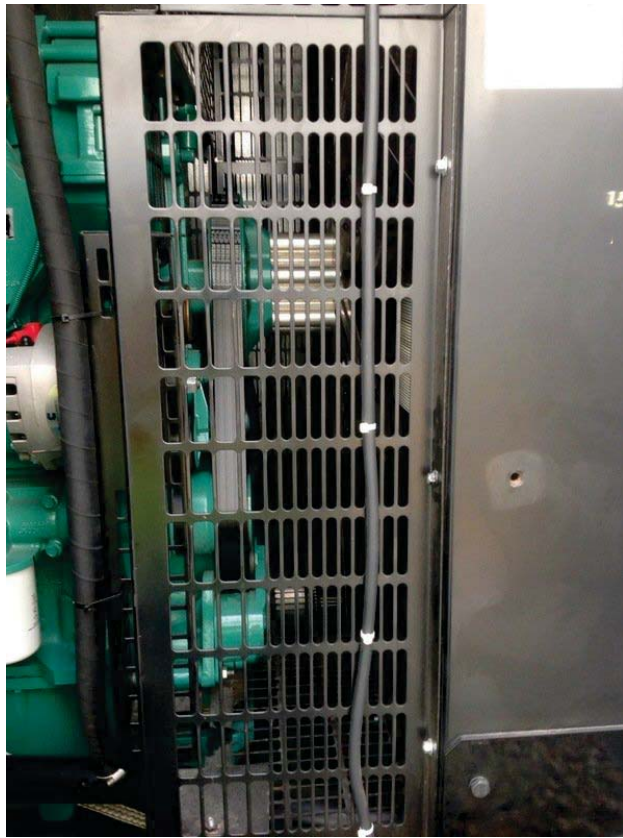
Description	Plant Backup Generator (Large)
Condition Score	1 - Excellent
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required

Photos

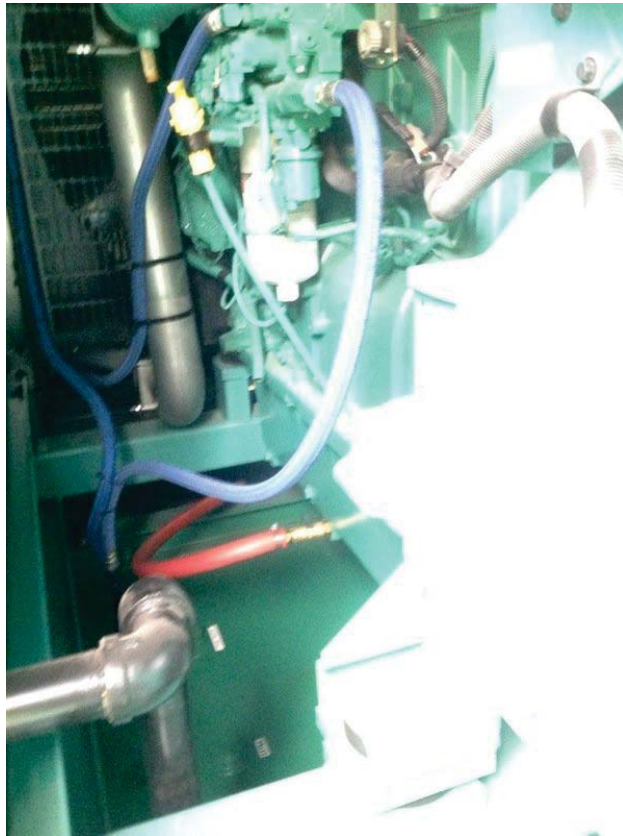


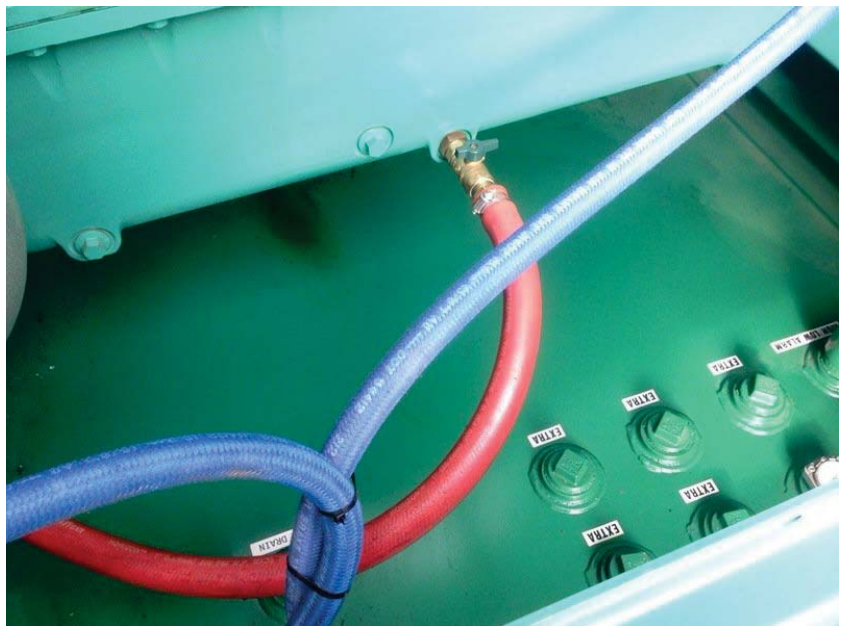












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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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Created	2019-03-27 00:10:U2 T bC yo bnVo HaV v akeryepe
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gerGrWaV. e i . nre	1 - CnW5nVeVt uBV. tmVME aL WteVded
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## Back Up Power

Created	2019-03-27 00:10:42 UTC by Tony Van Haverbeke
Updated	2019-05-28 22:45:44 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-29
Time	09:33
Area or Function	Back Up Power

## Asset Description/Equipment List

Back Up Power	Onan Portable Gas Generator, GEN-M-100-4
Station ID	GEN-M-100-4
What type of Asset?	Electrical

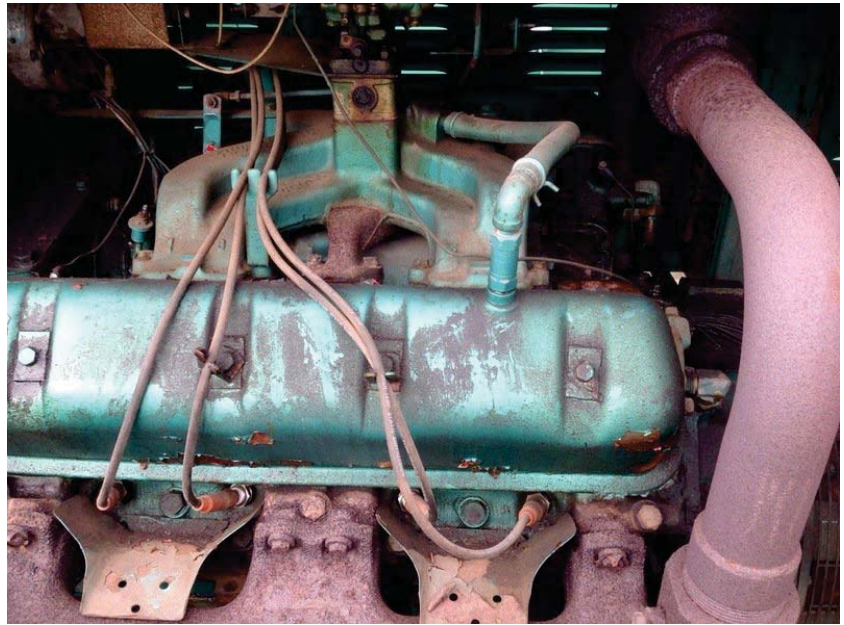
## Electrical

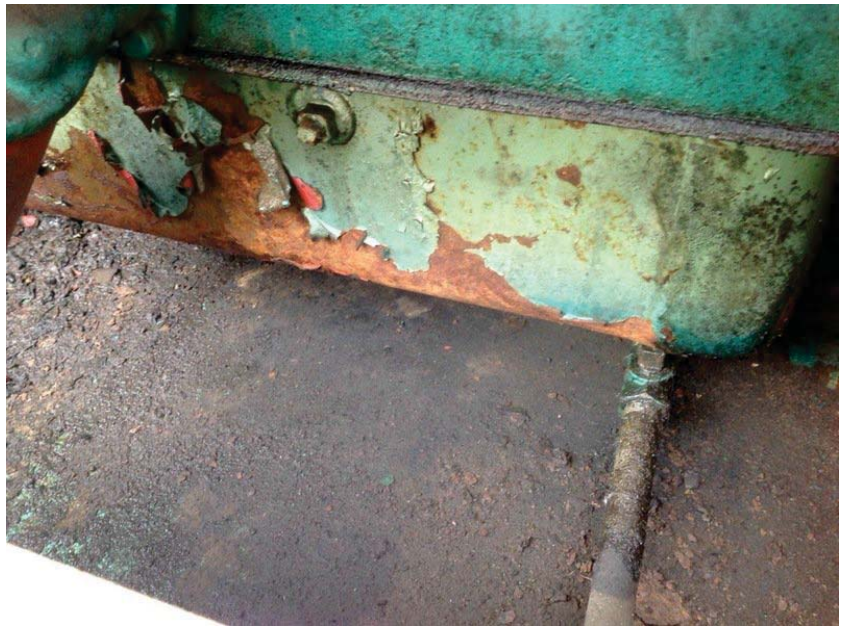
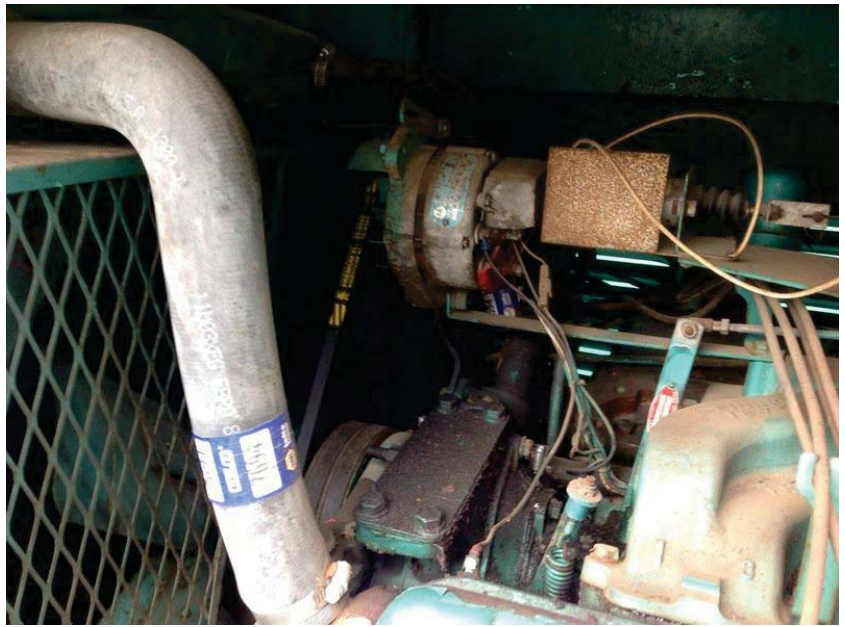
Description	Onan Portable Gas Generator
Field Observations	Corrosion
Condition Score	3 - Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Coating system failing

Photos









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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## **Attachment B: Lift Station Inspection Forms**

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## Lift Station

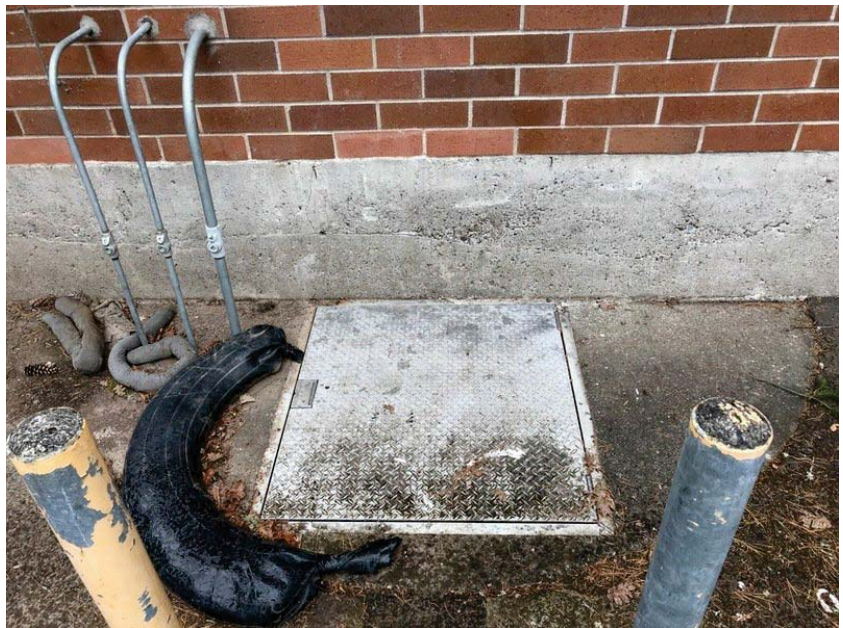
Created	2019-03-27 00:11:13 UTC by Tony Van Haverbeke
Updated	2019-05-28 23:05:10 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-27
Time	10:38
Area or Function	Lift Station

## Asset Description/Equipment List

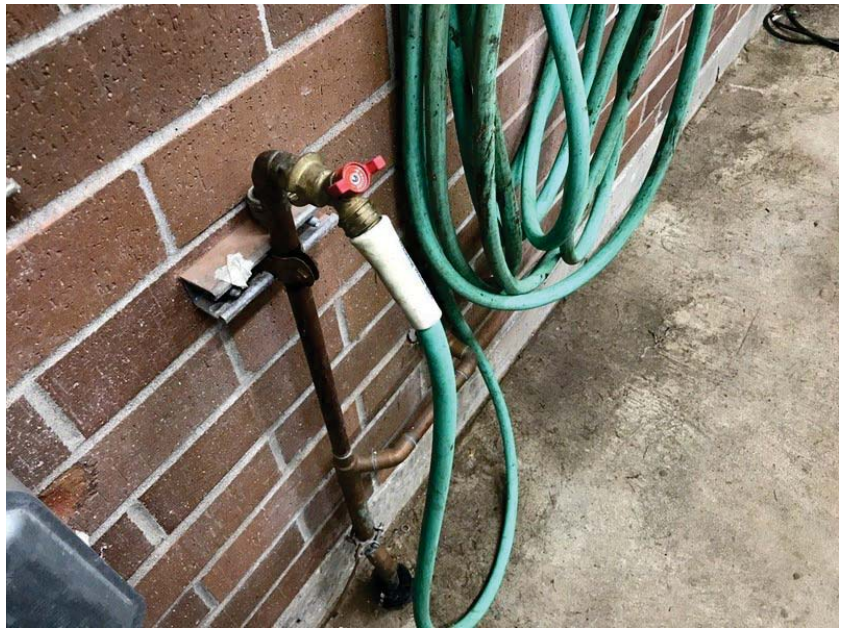
Lift Station	Canyon Creek Lift Station, CANC-LS-07
Station ID	CANC-LS-07
What type of Asset?	Structural
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	House keeping issues No back flow devices on the hose bibs Roof insulation starting to fall down No confined space sign on wet well 120/208 transformer seems to be hotter than normal. Suggest follow up to verify transformer temperature is in correct operating range

## Photos













Appears to hitter than normal

City Staff Present (names)

None







## Lift Station

Created	2019-03-27 00:10:48 UTC by Tony Van Haverbeke
Updated	2019-05-28 23:06:40 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-27
Time	10:36
Area or Function	Lift Station

## Asset Description/Equipment List

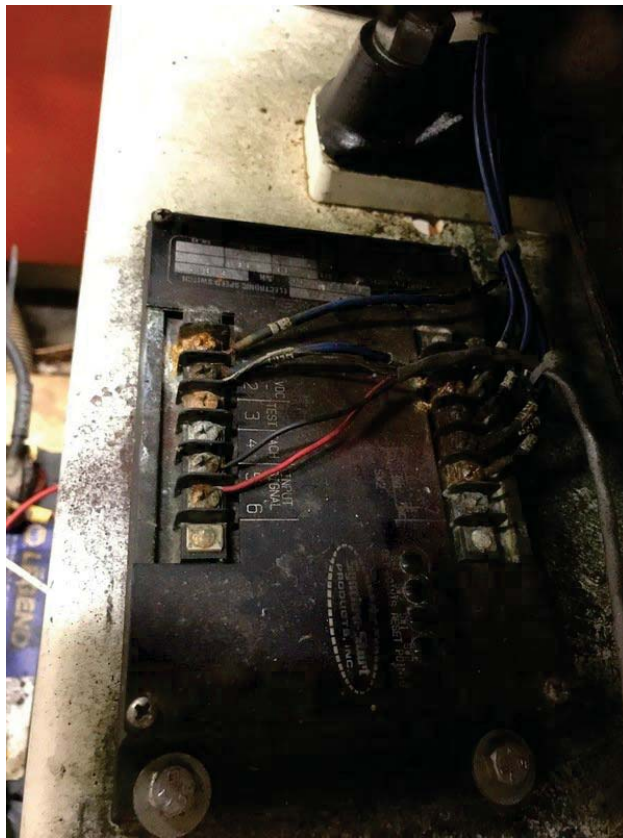
Lift Station	Canyon Creek Auxillary Engine, CANC-LS-07-AUX
Station ID	CANC-LS-07-AUX
Asset Description	Canyon Creek Auxillary Engine
What type of Asset?	Mechanical

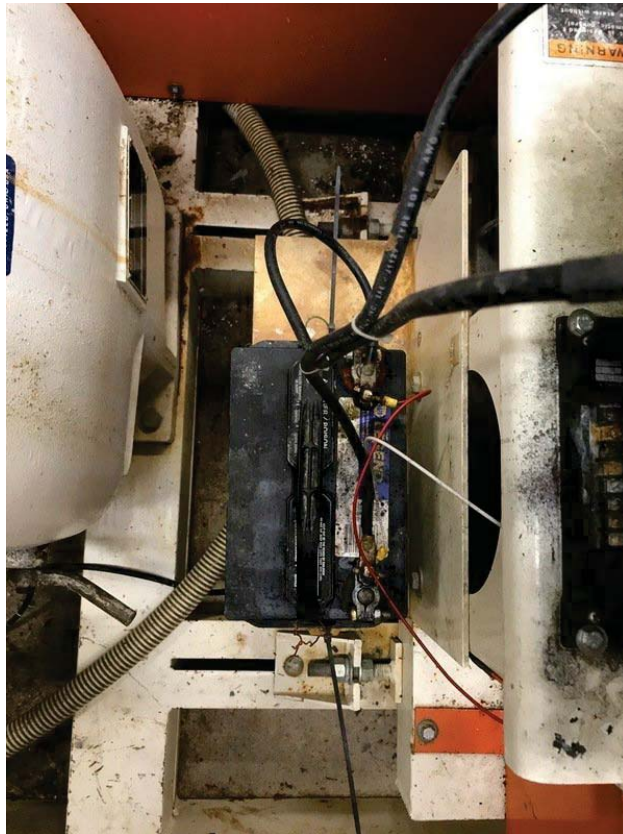
## Mechanical

Field Observations	Corrosion
Condition Score	3 - Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Corroded electrical terminals. Battery held in place with wire ties and bailing wire No cover over battery posts

## Photos







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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## sæt 4tatýo

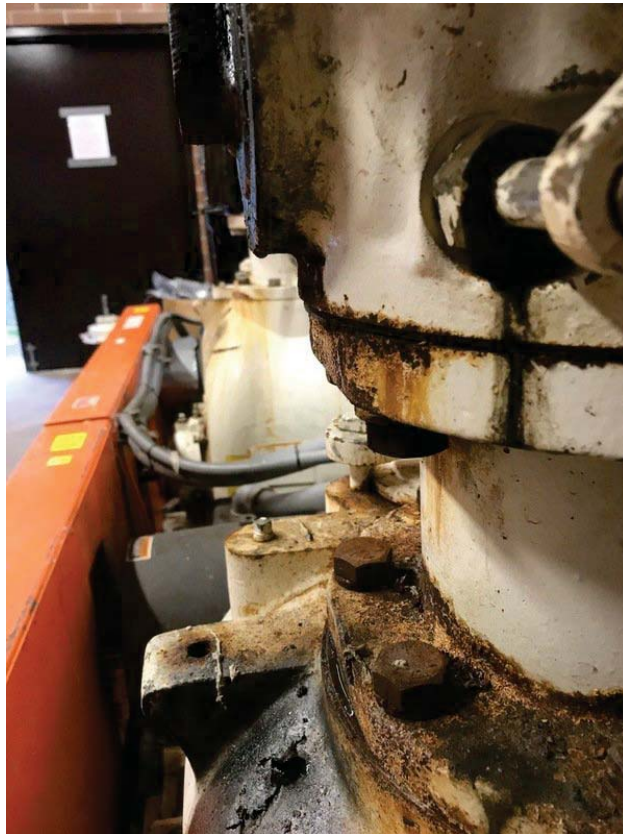
Created	2019-03-27 00:11:00 6 UC Tb Ujob nao VaHerTeve
6 kdated	2019-0p-25 23:0p:81 6 UC Tb4S yo matWyo
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, ate	2019-03-27
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## Liñ Statiyo

Created	2019-03-27 00:11:00 5 UC Tb Uj ob nao Va Hér Teve
5 kdated	2019-0p-28 23:04:38 5 UC Tb Simyo Watsyo
Lycatiyo	0.0, 0.0
Date	2019-03-27
Ùme	11:00
Area yr Fuoctiyo	Liñ Statiyo

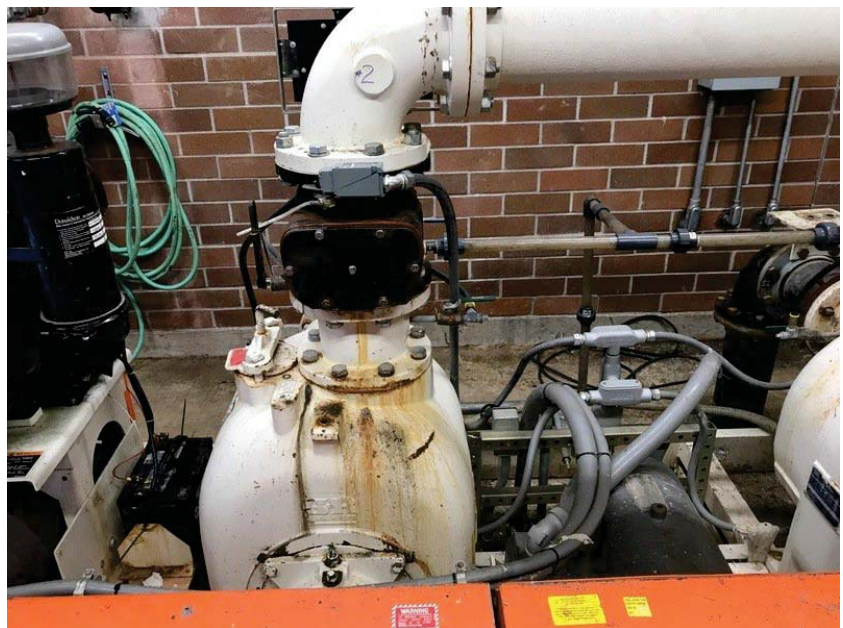
## Asset Descriktiyoq/ uikmeot List

Liñ Statiyo	Caoby Creev Liñ f umk I 2, CAg C-LS-07-f -2
Statiyo w	CAg C-LS-07-f -2
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Assessmeot Bb (oames)

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## Lift Station

Created	2019-03-27 00:10:48 UTC by Tony Van Haverbeke
Updated	2019-05-28 23:12:19 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-27
Time	08:38
Area or Function	Lift Station

## Asset Description/Equipment List

Lift Station	Charbonneau Auxillary Engine , CHAR-LS-01-AUX
Station ID	CHAR-LS-01-AUX
Asset Description	Charbonneau Auxillary Engine
What type of Asset?	Mechanical

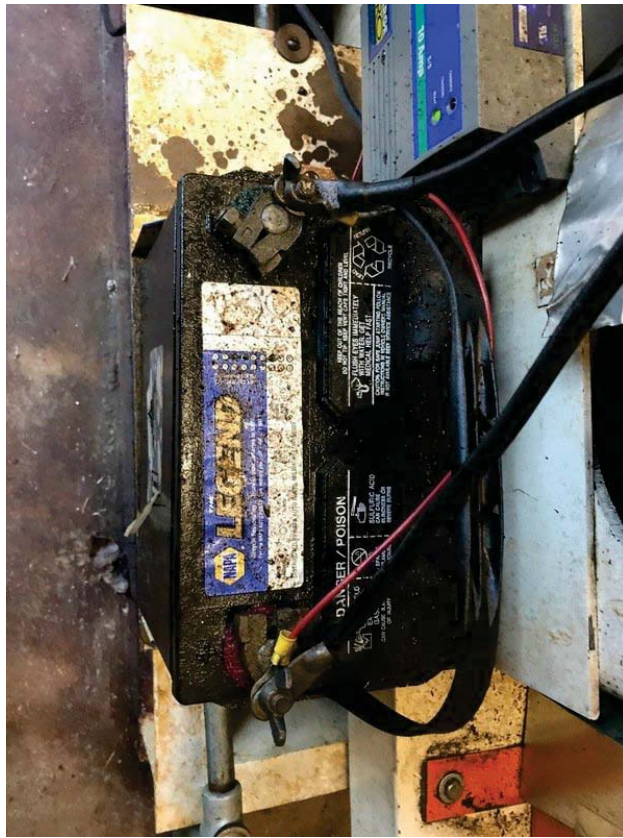
## Mechanical

Field Observations	Leaking
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Slight oil leak from top of engine Battery has no cover over the posts so it is a hazard Gas line is not supported by the engine so it moves and could cause a hazard

## Photos











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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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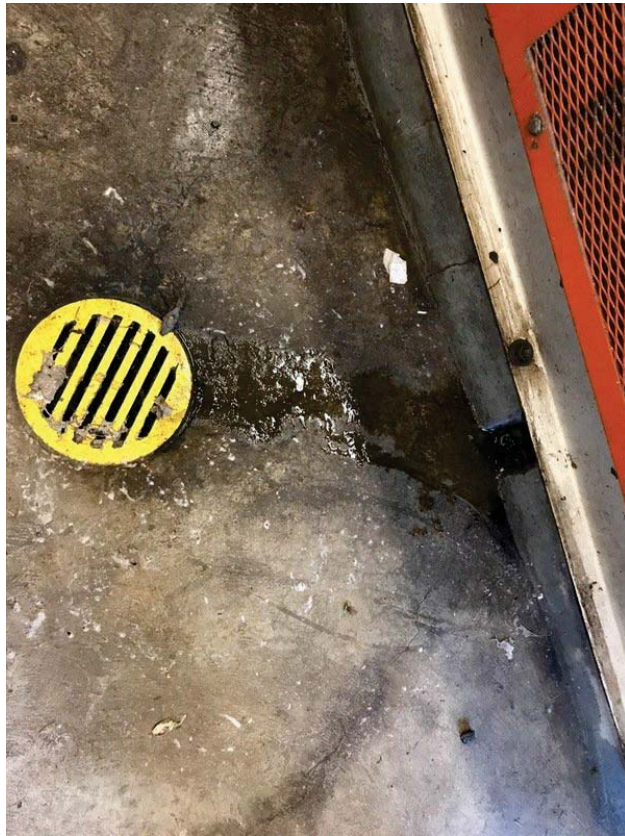
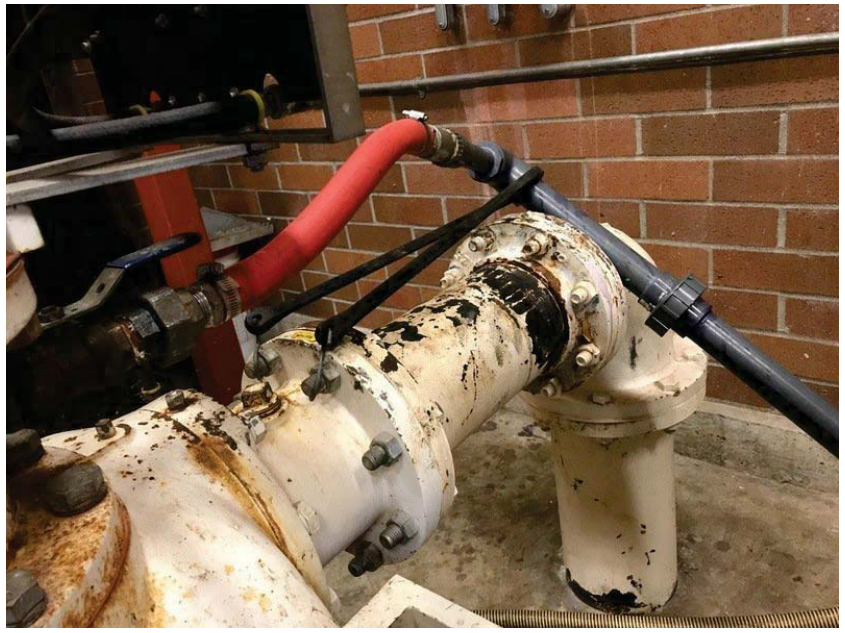
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## f uWkL aod h ytyrL

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f erlyr Wao. e i .yre	2 - B i er H r e D t ut g r o g er t g ao Ex ke. ted M & h
Pe. y W Weo dat tyro	i . gedu e . y rre. t r i e a. tyro R y r v y r d e r o e a r t e r W
Frad MT Ler HatryoL y Cy W Weot L	M r e a v r o O l r y W H e o t . a k D o e e d t y d e t e r W r a e t g e . a u L e a o d . e a o u k , M i r r h d r a m a O t y t g e l y y r d r a m , s r t g y u t t a v r o O y l l g e T e t Q u a r d T e t L L g y R W y r e R e a r t g a o k u W k # 1 n r t u a y T L e r H a t r y o y o b o y k e r l y r W a o . e t e L t r a O

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## Lift Station

Created	2019-03-27 00:11:13 UTC by Tony Van Haverbeke
Updated	2019-05-28 23:03:59 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-27
Time	11:25
Area or Function	Lift Station

## Asset Description/Equipment List

Lift Station	CorraCreek Lift Station, CI hC-LS-0?
Station ID	CI hC-LS-0?
What type of Asset?	Structural

## Structural

Field Observations	Corrosion
Condition Score	2 - Significant Deterioration
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action Work order near term
Field Observations/Comments	Electrical protection on Oet Oel LarRe gone into poOer controNstructure Ogere tge antenna Oire comes tgrouRg. Electrical cover over battery posts Replacement fuses MyinR in dirt Corrosion noted on tge bottom of tge controNpaneN Electrical confined space siRn on OetOel Wumps did not run OgilN onsite

photos

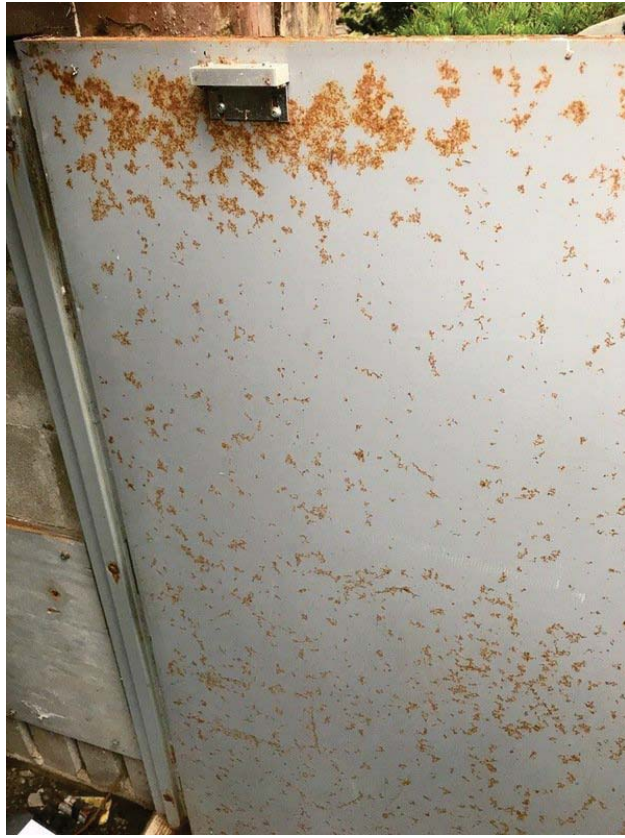














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City Staff wresent )names6

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Assessment By )names6

Simon Watson

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## Lift Station

Created	2019-03-27 00:11:01 UTC by Tony Van Haverbeke
Updated	2019-05-28 23:13:21 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-27
Time	11:38
Area or Function	Lift Station

## Asset Description/Equipment List

Lift Station	Corral Creek Lift Pump #1, CORCRK-LS-1
Station ID	CORCRK-LS-1
What type of Asset?	Pumps and Motors
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Submersible pump unable to inspect. Pump did not run while on site.
City Staff Present (names)	None
Assessment By (names)	Simon Watson



## Lift Station

Created	2019-03-27 00:11:01 UTC by Tony Van Haverbeke
Updated	2019-05-28 23:13:44 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-27
Time	11:39
Area or Function	Lift Station

## Asset Description/Equipment List

Lift Station	Corral Creek Lift Pump #2, CORCRK-LS-2
Station ID	CORCRK-LS-2
What type of Asset?	Pumps and Motors
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Submersible pump unable to inspect. Pump did not run while on site.
City Staff Present (names)	None
Assessment By (names)	Simon Watson





## Lift Station

Created	2019-06-02 21:00:00 UTC by Art Molseed
Updated	2019-06-02 21:19:44 UTC by Art Molseed
Location	,
Date	2019-06-02
Time	13:47
Area or Function	Lift Station

## Asset Description/Equipment List

Lift Station	Grande Pointe LS
Station ID	GRANDEPOINTE-LS-09
Asset Description	Grande Pointe LS
What type of Asset?	Structural
Condition Score	1 - Excellent
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required

Photos









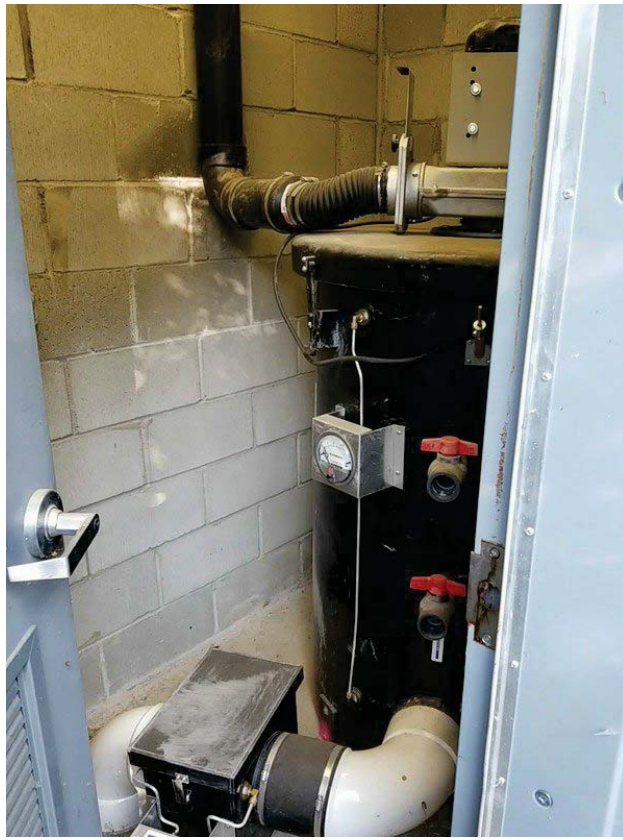














## Lift Station

Created	2019-06-02 21:11:31 UTC by Art Molseed
Updated	2019-06-02 21:11:31 UTC by Art Molseed
Location	,
Date	2019-06-02
Time	14:08
Area or Function	Lift Station

## Asset Description/Equipment List

Lift Station	Grande Pointe LS
Station ID	GRANDEPOINTE-LS-09-AUX
Asset Description	Auxiliary Engine
What type of Asset?	Mechanical
Condition Score	1 - Excellent
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required

Photos





## Lift Station

Created	2019-06-02 21:05:35 UTC by Art Molseed
Updated	2019-06-02 21:05:35 UTC by Art Molseed
Location	,
Date	2019-06-02
Time	14:00
Area or Function	Lift Station

## Asset Description/Equipment List

Lift Station	Grande Pointe LS
Station ID	GRANDEPOINTE-LS-09-P-1
What type of Asset?	Pumps and Motors
Condition Score	1 - Excellent
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Submersible pump could not be inspected

Photos





## Lift Station

Created	2019-06-02 21:08:27 UTC by Art Molseed
Updated	2019-06-02 21:08:27 UTC by Art Molseed
Location	,
Date	2019-06-02
Time	14:05
Area or Function	Lift Station

## Asset Description/Equipment List

Lift Station	Grande Pointe LS
Station ID	GRANDEPOINTE-LS-09-P-2
What type of Asset?	Pumps and Motors
Condition Score	1 - Excellent
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Submersible pump could not be inspected

Photos







## Lift Station

Created	2019-03-27 00:10:44 UTC by Tony Van Haverbeke
Updated	2019-05-28 23:08:57 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-27
Time	09:41
Area or Function	Lift Station

## Asset Description/Equipment List

Lift Station	Memoiral Park Control Panel, MEMP-LCP-03
Station ID	MEMP-LCP-03
What type of Asset?	Electrical

## Electrical

Description	Memoiral Park Control Panel
Condition Score	1 - Excellent
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Material stored in top of the control panel Should be removed.

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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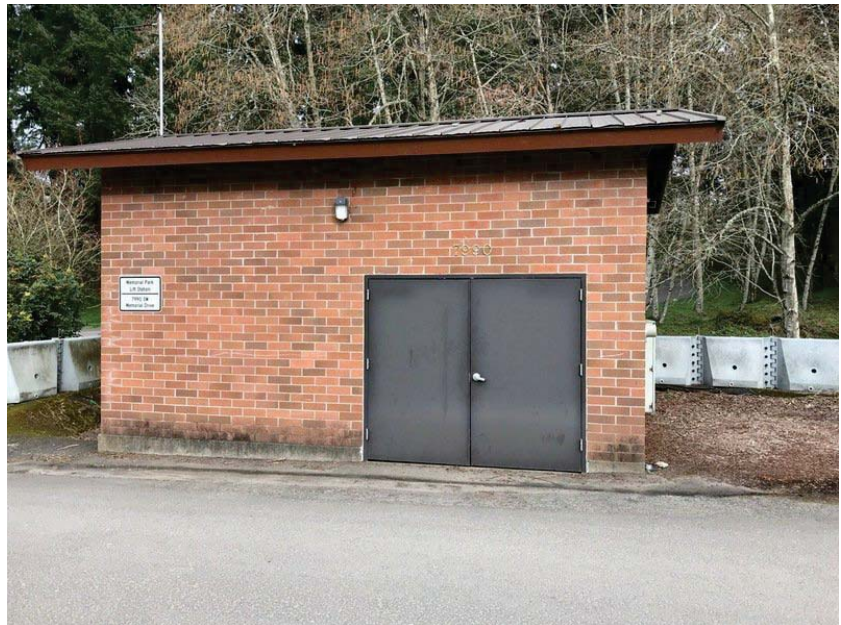
## Lift Station

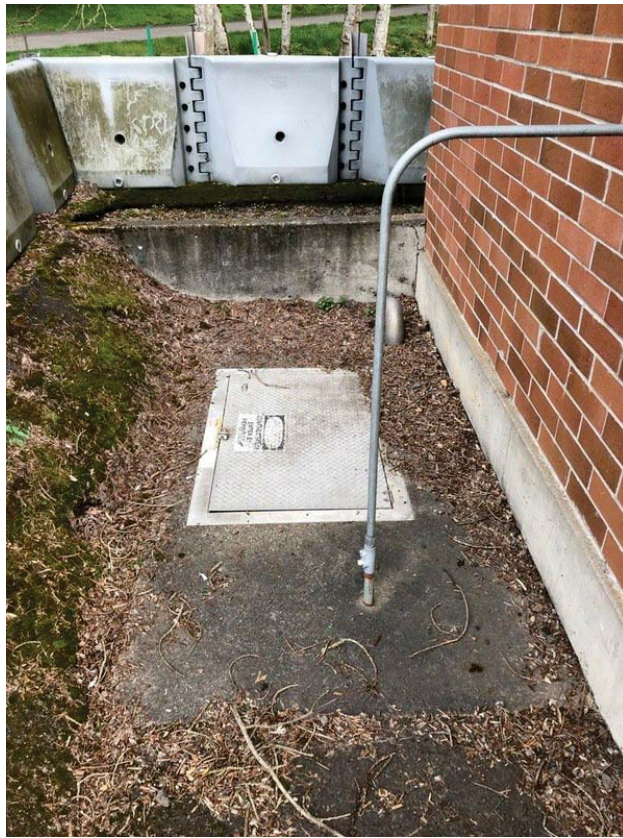
Created	2019-03-27 00:11:14 UTC by Tony Van Haverbeke
Updated	2019-05-28 23:10:14 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-27
Time	09:13
Area or Function	Lift Station

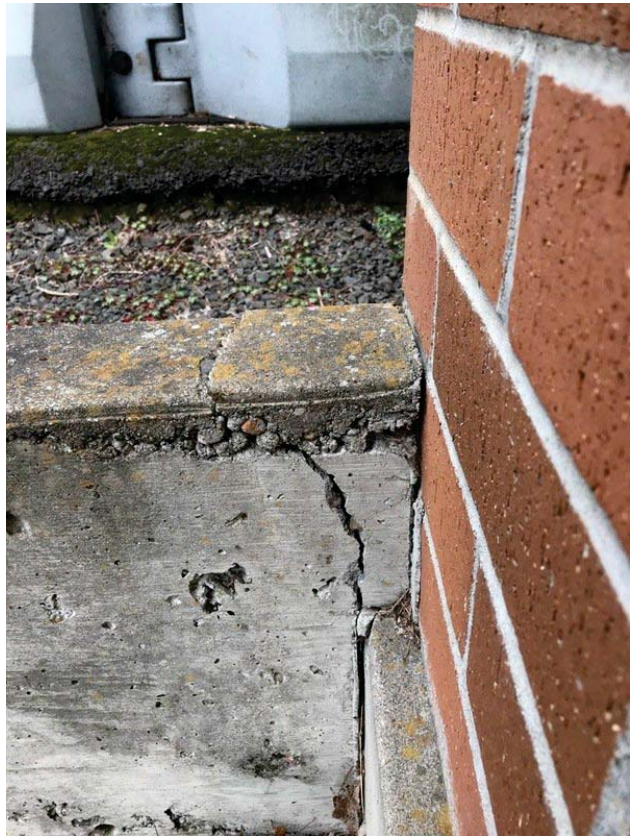
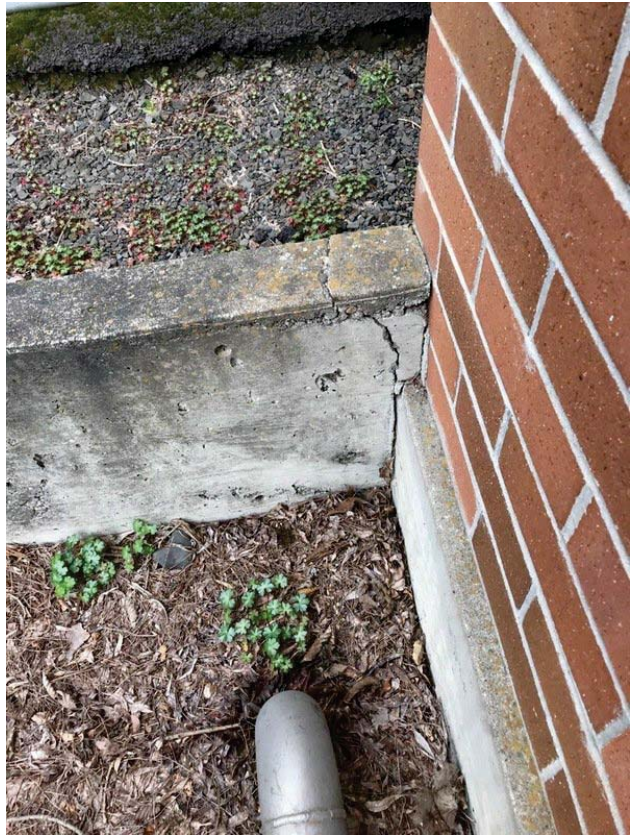
## Asset Description/Equipment List

Lift Station	Memorial Park Lift Station, MEMP-LS-03
Station ID	MEMP-LS-03
What type of Asset?	Structural
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	House keeping not good. Cutting oil on top of 480 breaker cabinet. Louvers to generator radiator stuck open Belts hanging on crane disconnect New rotating unit stored on the floor connected to crane. It is subjected to pump vibration and therefore bearings may fail prematurely when put in service

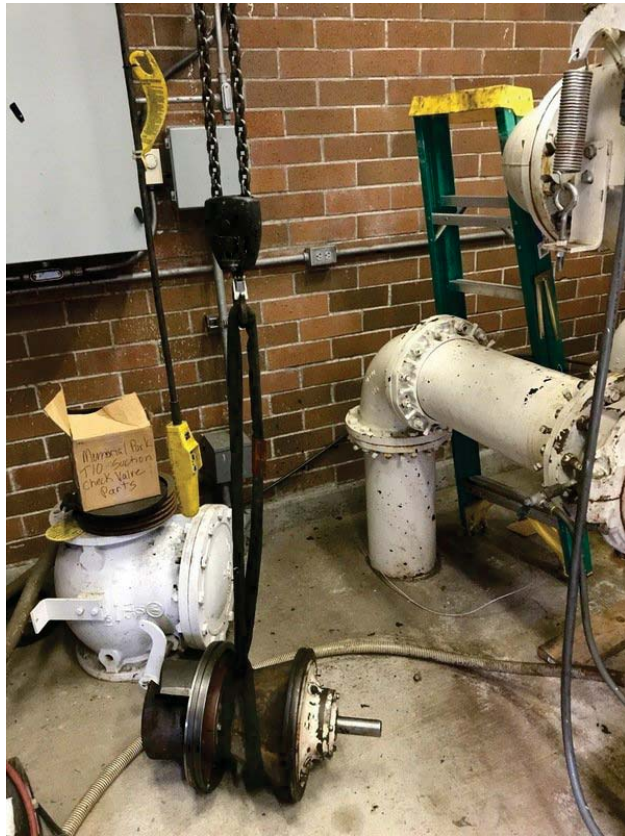
## Photos

















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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Lift Station

Created	2019-03-27 00:10:53 UTC by Tony Van Haverbeke
Updated	2019-05-28 23:09:20 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-27
Time	09:38
Area or Function	Lift Station

## Asset Description/Equipment List

Lift Station	Memorial Park Auxillary Engine, MEMP-LS-03-AUX
Station ID	MEMP-LS-03-AUX
Asset Description	Memorial Park Auxillary Engine
What type of Asset?	Mechanical
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Engine did not run while onsite. Assume the engine functions as intended Covers need to be reinstalled as it is a safety hazard.

Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## LiR Statiby

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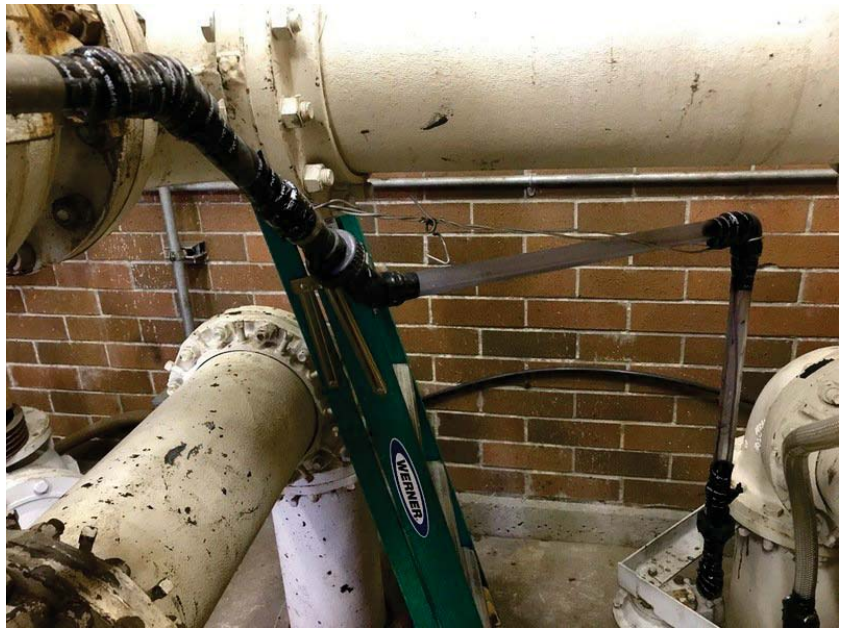
## Asset Descriptibyq / uivmeyt List

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## Lift Station

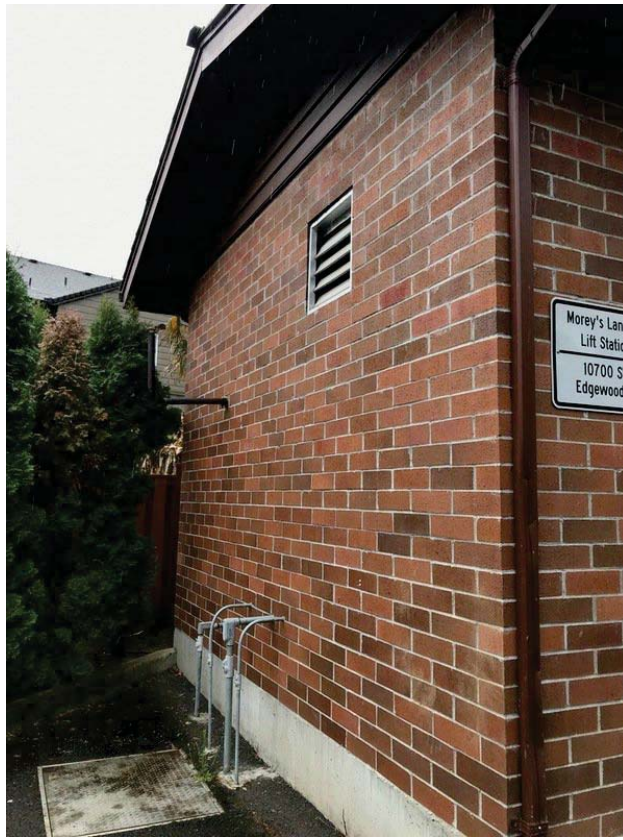
Created	2019-03-27 00:11:14 UTC by Tony Van Haverbeke
Updated	2019-05-28 23:00:28 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-27
Time	12:13
Area or Function	Lift Station

## Asset Description/Equipment List

Lift Station	Morey's Landing Lift Station, MORL-LS-08
Station ID	MORL-LS-08
What type of Asset?	Structural
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Junction box for pump and check instrumentation not secured in place. Insulation starting to fall down Plastic cover on ceiling coming down in the center. No confined space entry sign on wet well. Hose running from inside pump station to soaker system for trees. General house keeping issues.

## Photos

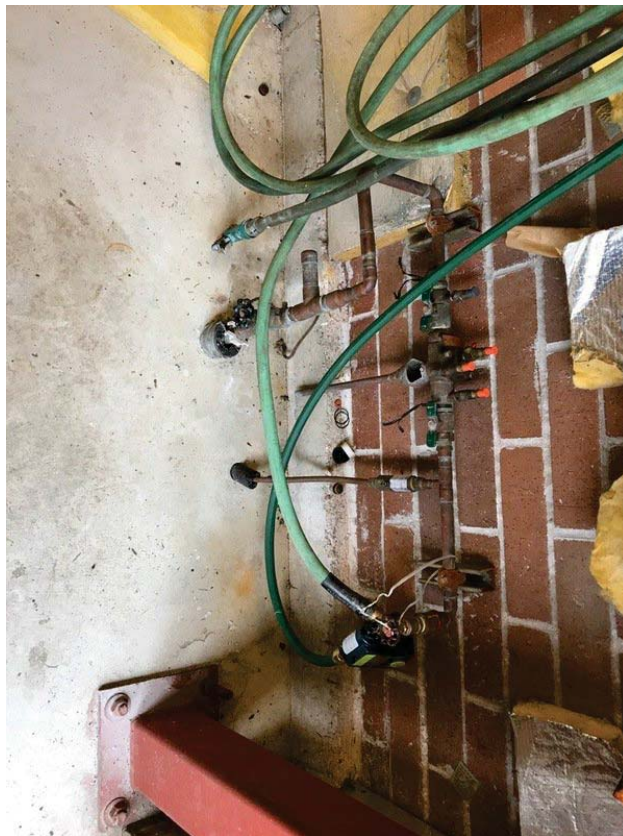














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City Staff Present (names)

None

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Assessment By (names)

Simon

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## Lift Station

Created	2019-03-27 00:10:53 UTC by Tony Van Haverbeke
Updated	2019-05-28 23:01:02 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-27
Time	12:29
Area or Function	Lift Station

## Asset Description/Equipment List

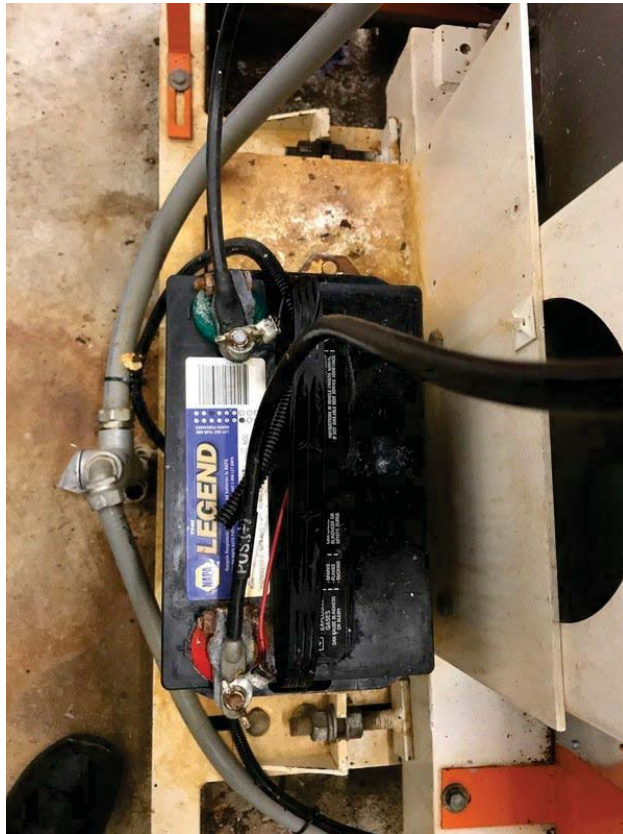
Lift Station	Morey's Lndng Auxillary Engine, MORL-LS-08-AUX
Station ID	MORL-LS-08-AUX
Asset Description	Morey's Lndng Auxillary Engine
What type of Asset?	Mechanical

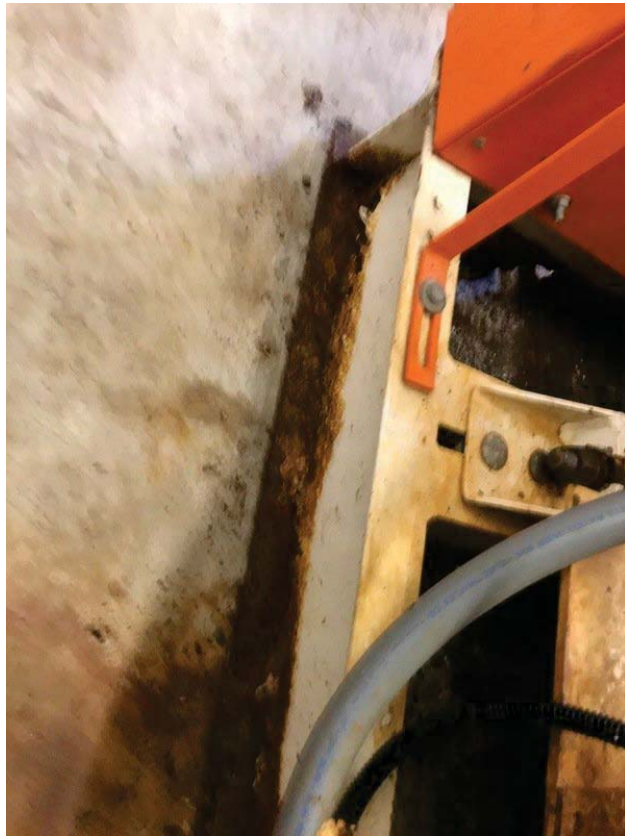
## Mechanical

Field Observations	Corrosion
Condition Score	3 - Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Unit did not operate while onsite Electrical connections corroded Battery not tied down No cover over battery posts Frame corroded Gas supply line is not supported very well and could easily be knocked out of place by an employee.

## Photos











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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Lift Station

Created	2019-03-27 00:11:02 UTC by Tony Van Haverbeke
Updated	2019-05-28 23:02:06 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-27
Time	12:23
Area or Function	Lift Station

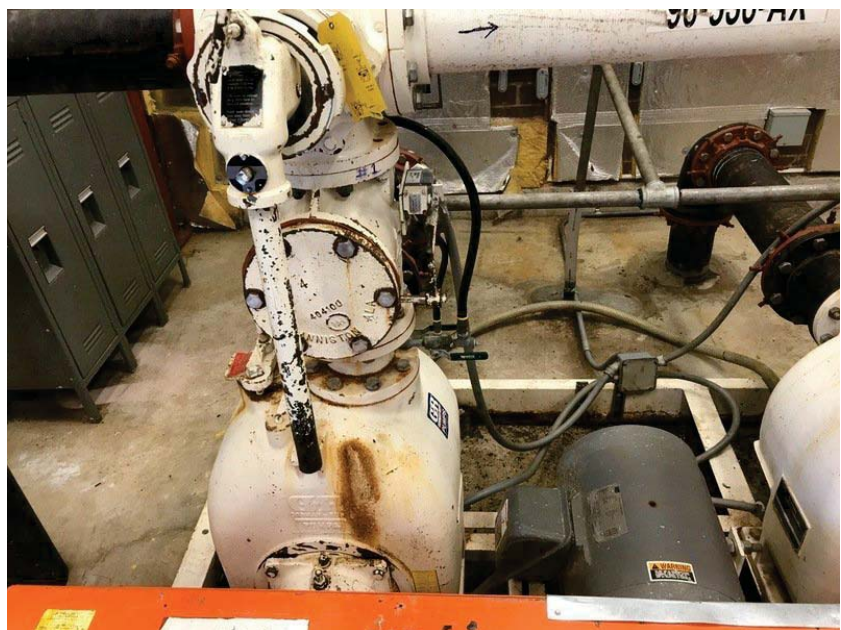
## Asset Description/Equipment List

Lift Station	Morey's Landing Lift Pump #1, MORL-LS-08-P1
Station ID	MORL-LS-08-P1
What type of Asset?	Pumps and Motors

## Pumps and Motors

Field Observations	Corrosion
Condition Score	3 - Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/Comments	Pump mounting frame corroded Leak on inspection cover

Photos







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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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Created	2019-03-27 00:11:02 UTC by Tony Van Haverbeke
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PhotoW







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City Staff Prevent (naive)

None

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AWW Prevent By (naive)

65 on mat

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## Lift Station

Created	2019-03-27 00:11:08 UTC by Tony Van Haverbeke
Updated	2019-03-27 00:11:08 UTC by Tony Van Haverbeke
Location	0.0, 0.0
Area or Function	Lift Station
Station ID	RIVG-LS-1
What type of Asset?	Pumps and Motors



## Lift Station

Created	2019-03-27 00:11:08 UTC by Tony Van Haverbeke
Updated	2019-03-27 00:11:08 UTC by Tony Van Haverbeke
Location	0.0, 0.0
Area or Function	Lift Station
Station ID	RIVG-LS-2
What type of Asset?	Pumps and Motors



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## River Village Lift Station

Please refer to Table 4-8 in Section 4.8 of the report.



## Lift Station

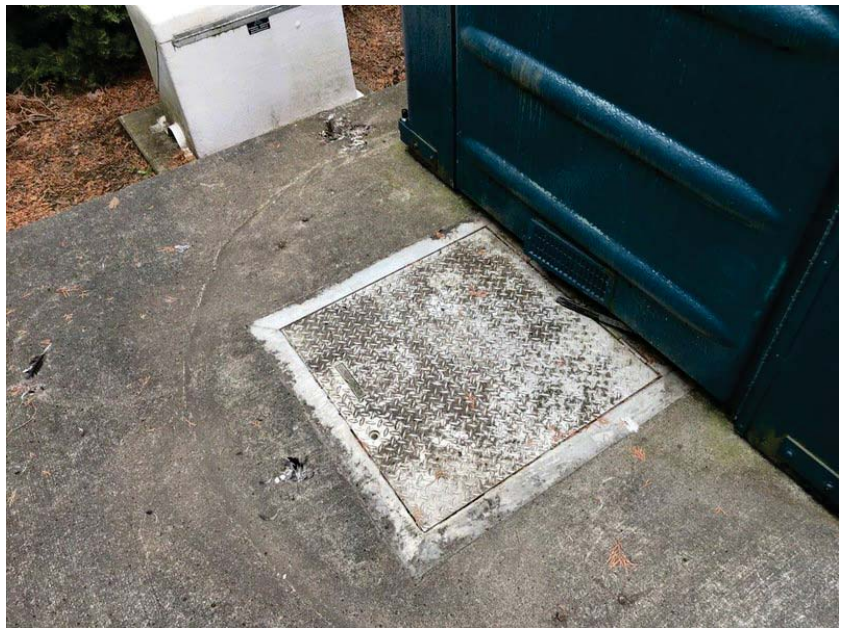
Created	2019-03-27 00:11:15 UTC by Tony Van Haverbeke
Updated	2019-05-28 23:07:30 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-27
Time	07:26
Area or Function	Lift Station

## Asset Description/Equipment List

Lift Station	Town Center Lift Station, TOWNCENTER-LS-02
Station ID	TOWNCENTER-LS-02
What type of Asset?	Structural
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Overall condition looks good. Not sure why there is wood on top of the one panel.

### Photos







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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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## Lift Station

Created	2019-03-27 00:11:09 UTC by Tony Van Haverbeke
Updated	2019-05-28 23:08:01 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-27
Time	10:19
Area or Function	Lift Station

## Asset Description/Equipment List

Lift Station	Town Center Lift Pump #1, TOWNCENTER-LS-02-P-1
Station ID	TOWNCENTER-LS-02-P-1
What type of Asset?	Pumps and Motors
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	No immediate action required
Field Observations/Comments	Pump seems to be in good condition Pump did not run while on site

## Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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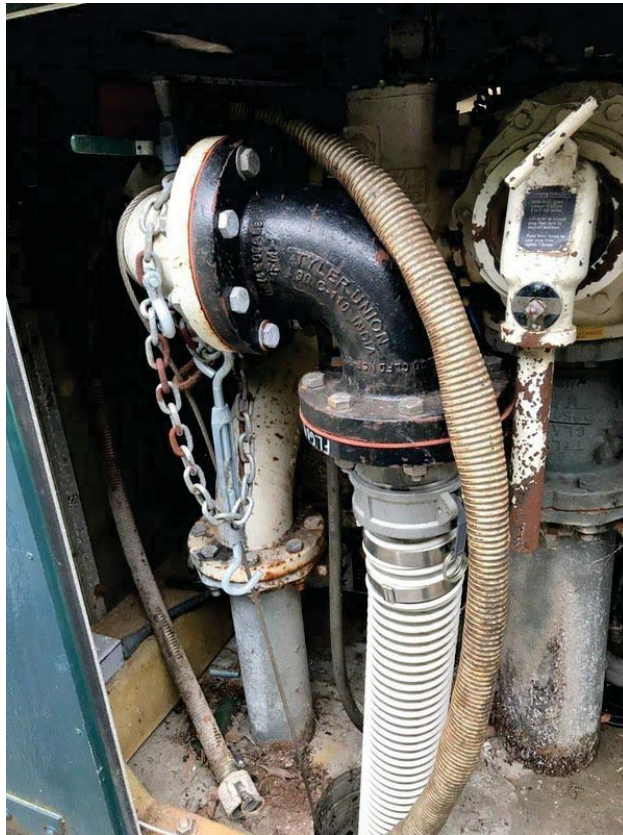
## Lift Station

Created	2019-03-27 00:11:09 UTC by Tony Van Haverbeke
Updated	2019-05-28 23:07:01 UTC by Simon Watson
Location	0.0, 0.0
Date	2019-03-27
Time	10:17
Area or Function	Lift Station

## Asset Description/ Equipment List

Lift Station	Town Center Lift Pump #2, TOWNCENTER-LS-02-P-2
Station ID	TOWNCENTER-LS-02-P-2
What type of Asset?	Pumps and Motors
Condition Score	2 - Slight Visible Degradation
Performance Score	1 - Component Functioning as Intended
Recommendation	Schedule corrective action work order near term
Field Observations/ Comments	Pump number 2 belt guard and elbow stored on top of the pump. Install belt guard and remove elbow.

## Photos





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City Staff Present (names)

None

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Assessment By (names)

Simon Watson

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**Office**

6500 SW Macadam Avenue | Suite 200  
Portland, OR 97239-3552  
T 503-244-7005

