PERMIT ATTACHMENT

APPENDIX XII

INSPECTON SCHEDULE AND CHECKLISTS

The date of the document was changed from April 2014 to July 2014 to match the footer on the page and the date on the file name as received from the Facility.

September 2018

APPENDIX XII

INSPECTON SCHEDULE AND CHECKLISTS

FOR

EVOQUA WATER TECHNOLOGIES

PARKER REACTIVATION FACILITY

PARKER, ARIZONA

Revision 2
July not April 2014
(as shown in footer)

Evoqua Water Technologies

DAILY RCRA INSPECTION CHECKLIST **40 CFR 264.15**

CONTAINER STORAGE AREA	Acceptable	Unacceptable	Notes
RCRA containers closed during storage			
RCRA containers have required labels			
Check for leaking RCRA containers			
Check storage pad - free of cracks and gaps that would prevent a spill from being contained			
Aisles not blocked and allow inspection			
Sump clean and free of contamination			
Containers in compliance with Subpart CC			

NOTE: Response to Container leaks/spills shall be in accordance with 40 CFR 264.1086(c)(4)(iii).

UNLOADING PAD

Check for cracks/gaps and spills			

STORAGE TANK SYSTEMS/ANCILLIARY EQUIPMENT **(SEE GUIDANCE DOCUMENT FOR SPECIFIC DETAILS ON ANCILLARY EQUIPMENT)**

T-1 Valves/Leaks/Piping Outside Secondary Containment			
T-1 Tank Corrosion/Signs of Leakage			
T-1 Waste Feed Cutoff (Overfill Control)- Proper Operation			
T-1 construction materials and area immediately surrounding the externally accessible portion of the tank system, including secondary containment system to detect erosion or signs of releases of hazardous waste.			
T-2 Valves/Leaks/Piping Outside Secondary Containment			
T-2 Tank Corrosion/Signs of Leakage			
T-2 Waste Feed Cutoff (Overfill Control) - Proper Operation			
T-2 construction materials and area immediately surrounding the externally accessible portion of the tank system, including secondary containment system to detect erosion or signs of releases of hazardous waste.			
T-5 Valves/Leaks/Piping Outside Secondary Containment			
T-5 Tank Corrosion/Signs of Leakage			
T-5 Waste Feed Cutoff (Overfill Control) - Proper Operation			
T-5 construction materials and area immediately surrounding the externally accessible portion of the tank system, including secondary containment system to detect erosion or signs of releases of hazardous waste.			
T-6 Valves/Leaks/Piping Outside Secondary Containment			
T-6 Tank Corrosion/Signs of Leakage			
T-6 Waste Feed Cutoff (Overfill Control) - Proper Operation			
T-6 construction materials and area immediately surrounding the externally accessible portion of the tank system, including secondary containment system to detect erosion or signs of releases of hazardous waste.			
T-18 Valves/Leaks/Piping			
T-18 Tank Corrosion/Signs of Leakeage			
T-18 Waste Feed Cutoff (Overfill Control) - Proper Operation			
T-18 Internal Tank Integrity/Internal Tank Free of Leaks			
T-18 construction materials and area immediately surrounding the externally accessible portion of the tank system, including secondary containment system to detect erosion or signs of releases of hazardous waste.			

NOTE: Inspections to be conducted according to 40 CFR 264.195. Response to Tank System leaks/spills shall be in accordance with 40 CFR 264.196.

Secondary Containment - Free of Cracks and Gaps			
Secondary Containment Sump - Clean and Free of Contaminants			

Carbon adsorption systems (WS-1, WS-2, WS-3) - Check for leaks, proper operation.			

Evoqua Water Technologies

DAILY RCRA INSPECTION CHECKLIST **40 CFR 264.15**

TRANSFER EQUIPMENT

Hopper H-1 - Leaks/Corrosion			
Hopper H-2 - Leaks/Corrosion			

THERMAL TREATMENT SYSTEM

RF-2 Associated Equipment – Furnace Feed Valve Proper operations and Dewater Screw Corrosion			
RF-2 Associated Equipment - Weigh Belt Corrosion			
Rotary Air Lock			
RF-2 Furnace for leaks and fugitive emissions			
RF-2 Furnace and associated equipment (pumps, valves, conveyors, pipes, etc.) - thorough visual inspection for leaks, spills, fugitive emissions, and signs of tampering.			
RF-2 APC Equipment (Afterburner, Quench/Venturi, Packed bed, WESP, ID Fan, Pumps, etc.) for leaks, drips, spills			
CEMS Operation - Calibration - Proper Working OrderCEMS Operation - Calibration - Proper Working Order including a review of the calibration check data, an inspection of the recording system, an inspection of the control panel warning lights, and an inspection of the sample transport and interface system (e.g., flowmeters, filters, etc.) as appropriate.			
Water Seal Quench Venturi– Inspect for Level/Corrosion			
Process monitoring instrument readouts (Control Room) - Proper Operation			
Alarms - Proper Working Order			

SAFETY EQUIPMENT

Telephone - Proper Working Order			
Lighting - Proper Operation			
SCBA's/Escape Pack - Filled Properly			
Cell Phone - Proper Working Order, charged.			

Date: _____ **Inspector:**_____

Evoqua Water Technologies

WEEKLY RCRA INSPECTION CHECKLIST **40 CFR 264.15**

CONTAINER STORAGE AREA	Acceptable	Unacceptable	Notes
RCRA containers closed during storage			
RCRA containers have required labels			
Check for leaking RCRA containers			
Check storage pad - free of cracks and gaps that would prevent a spill from being contained			
Aisles not blocked and allow inspection			

NOTE: Response to Container leaks/spills in accordance with 40 CFR 264.1086(c)(4)(iii).

UNLOADING PAD

Check for cracks/gaps and spills			

FUEL STORAGE

Propane Tank - Proper Working Order			
Gas/Diesel Storage - Proper Storage			
Flammable Cabinet - Grounded/Vents			

SECURITY FENCE

Security Fence - No Breaks/Holes			

DUST COLLECTION SYSTEM

Hopper Dust Collector - Bag Condition/Pressure Drop			

Date: _____ **Inspector:**_____

Evoqua Water Technologies

MONTHLY RCRA INSPECTION CHECKLIST **40 CFR 264.15**

SAFETY EQUIPMENT	Acceptable	Unacceptable	Notes
Eyewash/Shower - Pressure/Sanitation/Walkways Open			
Respirators - Proper Inventory/Inspection			
Spill Control Equipment - Accessable, Inventory			
Paging System - Proper Working Order			
Fire Extinguishers - Pressure Check			
Emergency Lighting - Proper Operation			
Fire Protection System - Alarms/Proper Water Pressure			

WASTE FEED CUT-OFF TEST

Furnace Feed Rate			
Minimum Afterburner Temperature			
Minimum Venturi/Quench Total Flow			
Minimum Venturi Pressure Drop			
Minimumj Packed Bed pH			
Minimum WESP Secondary Voltage			
Maximum Stack Flow			
Maximum CO Correct to 7% Oxygen			
Maximum Chlorine Feed Rate (12-Hr)			
Maximum Mercury Feed Rate (12-Hr)			
Maximum Semivolatile Feed Rate (Cd+Pb) (12-Hr)			
Maximum Volatile Feed Rate (As + Be + Cr) (12-Hr)			

Date: _____ **Inspector:**_____

Evoqua Water Technologies

INSPECTION CHECKLIST - Completed Every 18 Months Maximum

SAFETY EQUIPMENT	Acceptable	Unacceptable	Notes
Furnace Draft Sensor - Check for Buildup and Plugging			
Quench/Venturi Sprays - Visual Inspection			
Quench/Venturi Magnetic Flow Meters Calibration			
Packed Bed Scrubber Sprays Visual Inspection			
Packed Bed Scrubber Packing Inspection Packing Condition			

Date: _____ **Inspector:**_____

Inspection Points for Storage Tank Systems
Ancillary Equipment

H1: From the hopper to the warehouse wall there are:
8 – Victaulic Couplings (or equivalent)

T1: From the warehouse wall to the spent carbon storage containment pad:
5 – Victaulic Couplings (or equivalent)

T2: From the warehouse wall to the spent carbon storage containment pad:
5 – Victaulic Couplings (or equivalent)

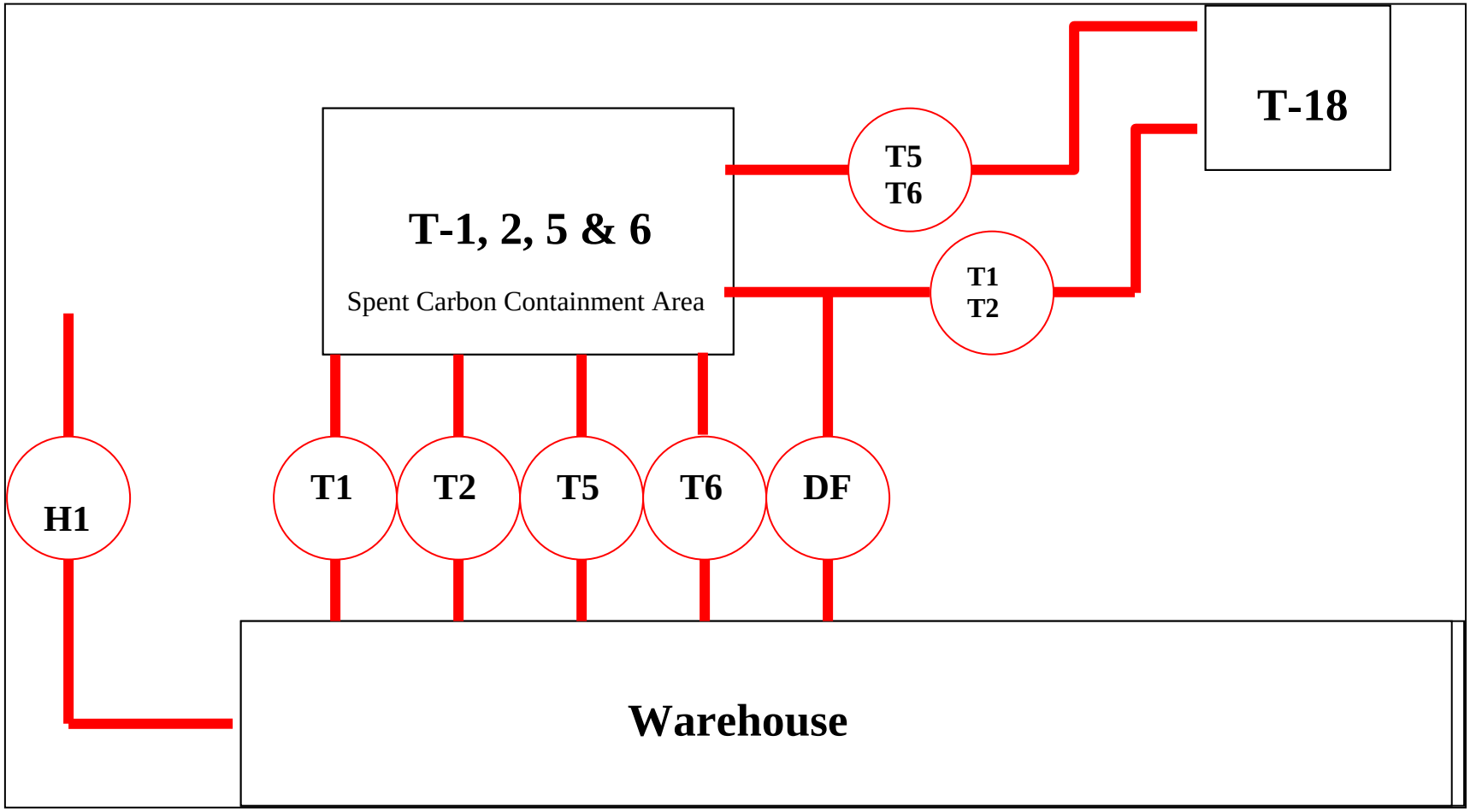
T5: From the warehouse wall to the spent carbon storage containment pad:
6 – Victaulic Couplings (or equivalent)

T6: From the warehouse wall to the spent carbon storage containment pad:
5 – Victaulic Couplings (or equivalent)

T5 / 6: From the spent carbon storage containment pad to T-18:
13 – Victaulic Couplings (or equivalent)
2 – Ball Valves
1 – Pipe Tee
6 – Welded Flanges
1 – Air Connection
1 – Bushing Reducer

T1 / 2: From the spent carbon storage containment pad to T-18:
16 – Victaulic Couplings (or equivalent)
2 – Ball Valves
1 – Pipe Tee
6 – Welded Flanges
1 – Air Connection
1 – Sanitary Y Pipe

DF: Direct Feed Bypass line direct from H-2 to T-1 feed line for T-18:
3 – Victaulic Couplings (or equivalent)
1 – Gate Valve
2 – Welded Flanges
2 – Welded Male Cam & Groove Connections
1 – Soft Plumbing with Female Cam & Groove Connections at each end.



Schematic of Piping/Fittings/Couplings to be Inspected