

## Stormwater Industrial Routine Facility Inspection Report

General Information			
Facility Name	Caldwell Industrial Airport		
NPDES Tracking No.	IDR 050007		
Date of Inspection	December 1, 2021	Start/End Time	2:30 PM / 4:00 PM
Inspector's Name(s)	Emily Johnson		
Inspector's Title(s)	Environmental Engineer (City of Caldwell Stormwater Program)		
Inspector's Contact Information	ejohnson@cityofcaldwell.org		
Inspector's Qualifications	SWPPP Primary Contact		
Weather Information			
<b>Weather at time of this inspection?</b>			
<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Sleet <input type="checkbox"/> Fog <input type="checkbox"/> Snow <input type="checkbox"/> High Winds <input type="checkbox"/> Other:                                      Temperature: 51°F			
<b>Have any previously unidentified discharges of pollutants occurred since the last inspection?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe:			
<b>Are there any discharges occurring at the time of inspection?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: Groundwater was discharging from AP-06			

### Control Measures

	Structural Control Measure	Control Measure is Operating Effectively?	If No, In Need of Maintenance, Repair, or Replacement?	Maintenance or Corrective Action Needed and Notes
1	AP-02 Pond	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	Small amount of trash accumulated in and around the BMP should be cleaned up.
2	Ap-04 Pond	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	Portions of the side slope to the pond contains exposed soil, showing signs of minor erosion into the pond basin. Seeds have been planted on the slope for stabilization via vegetation to prevent erosion into the pond basin. Plant additional seeds as needed to achieve stabilization.  Some trash accumulated in and around the BMP, should be cleaned up.
3	AP-06 Pond	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	N/A, control measure is in good condition. Consider raising outlet elevation to retain elevated groundwater within the BMP, and allow overflow to be limited to regulating water level bounce from stormwater runoff.
4	AP-08 Vegetated Channel	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	Contributing drainage area contains exposed soil, showing minor rill erosion into the swale. Additional seeds have been planted in these areas for stabilization via vegetation. Previously planted vegetation is establishing well and beginning to spread out, covering exposed soils.  Minor amount of trash accumulated around the BMP should be cleaned up.

	Structural Control Measure	Control Measure is Operating Effectively?	If No, In Need of Maintenance, Repair, or Replacement?	Maintenance or Corrective Action Needed and Notes
5	AP-09 Pond	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	Soils around pond are not fully vegetated, should be stabilized to prevent soil from eroding into the pond. Seeds have been planted in these areas for stabilization. Partial vegetation establishment from previous planting efforts, but more complete ground cover is needed. Plant additional seeds as needed to achieve stabilization
6	AP-10 Pond	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	Soils around pond are not vegetated, should be stabilized to prevent soil from eroding into the pond. Seeds have been planted in these areas for stabilization. Plant additional seeds as needed to achieve stabilization
7	AP-11 Pond	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Maintenance <input checked="" type="checkbox"/> Repair <input type="checkbox"/> Replacement	Southwest corner of the BMP facility receives surface runoff flow from the adjacent taxiway and the surround fields. This corner (from the concrete pad to the basin) is eroding significantly and needs to be stabilized with larger cobble to prevent scouring.
8	AP-SB01 Drain field	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	N/A
9	AP-SB02 Drain field	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	N/A
10	Refuel Runoff Capture	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	N/A
11	Pump Cover (Silverhawk)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	N/A

#### Areas of Industrial Materials or Activities Exposed to Stormwater

	Area/Activity	Inspected?	Controls Adequate (appropriate, effective and operating)?	Maintenance or Corrective Action Needed and Notes
1	Material loading/unloading and storage areas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	See Non-Compliance section below for description of tenant-specific concerns and recommendations.
2	Vehicle / Aircraft/ Equipment maintenance areas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	See Non-Compliance section below for description of tenant-specific concerns and recommendations.
3	Fueling areas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Midfield Aviation: Pump cover must be installed. Spill kit is onsite and well-marked.  Silverhawk fueling station: Onsite spill kit is easily accessible and clearly marked. All fuel trucks have individual spill kits that are well marked. Pump cover installed and looks in good repair.
4	Outdoor vehicle and equipment washing areas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	No outdoor vehicle or equipment washing observed during the inspection. No designated areas for these activities identified.
5	Waste handling and disposal areas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	No single waste handling or disposal area, instead inspected individual tenants for the

	Area/Activity	Inspected?	Controls Adequate (appropriate, effective and operating)?	Maintenance or Corrective Action Needed and Notes
				presence of proper waste disposal receptacles (garbage cans with lids). Specific tenants observed having insufficient or no receptacles are identified in the Non-Compliance section below.
6	<b>Erodible areas/construction</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Erodible areas: especially areas near the structural BMPs have exposed soils, these areas should be stabilized, preferably through vegetation establishment.  Construction: multiple areas of construction as new hangars are being constructed. Specific tenants observed having insufficient or no BMPs in place are identified in the Non-Compliance section below.
7	<b>Non-stormwater/ illicit connections</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	No non-stormwater or illicit connections were identified during the inspection.
8	<b>Salt storage piles or pile containing salt</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	Airport does not use salt.
9	<b>Dust generation and vehicle tracking</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Minimal sediment tracking from construction areas. See Notes section below for additional description.
10	<b>Apron areas</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	See Non-Compliance section below for description of tenant-specific concerns and recommendations.
11	<b>Areas where industrial activity has taken place in the past and significant materials remain and are exposed to storm water</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	See Non-Compliance section below for description of tenant-specific concerns and recommendations.

### Discharge Points

<p><b><u>Airport Outfall AP-01</u></b>  <b>Facility Condition:</b> Not inspected – not accessible due to Ustick Road overpass construction.  <b>Outfall Structure:</b> Concrete Manhole  <b>Outfall Type:</b> Direct Discharge  <b>Number of contributing catch basins:</b> One (1)  <b>Discharges To:</b> East Caldwell Drain  <b>Other Contributing Water Source:</b> Groundwater  <b>Notes:</b> The AP-01 manhole lid is difficult to lift, especially during rain. A small day-lighted section of the East Caldwell Drain is visible directly upstream of AP-01. The City of Caldwell anticipates that this site will be replaced during the Ustick Road widening project, which began in June of 2021. Only one catch basin drains to AP-01, catch basin was inspected during the inspection, surrounding area is not well vegetated, potential for sediment to be eroded into the catch basin during a rain event. Recommend sealing off the catch basin to eliminate drainage to AP-01, instead allowing stormwater to runoff into the adjacent vegetated field.</p> <p><b><u>Airport Outfall AP-02</u></b>  <b>Facility Condition:</b> Functional  <b>Outfall Structure:</b> Concrete Overflow Box  <b>Outfall Type:</b> Sedimentation Pond with Overflow  <b>Number of contributing catch basins:</b> Two (2)  <b>Discharges To:</b> East Caldwell Drain</p>
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**Other Contributing Water Source:** None

**Notes:** The majority of AP-02 is stabilized with vegetation. Side slope of the pond along Aviation Way was stabilized with riprap following the 2021 Q1 inspection, effectively addressing rill erosion. Minor amount of trash has accumulated in the BMP, needs to be cleaned out.

#### **Airport Outfall AP-03**

**Facility Condition:** Normal (exterior only inspected)

**Outfall Structure:** Concrete Manhole

**Outfall Type:** Direct Discharge

**Number of contributing catch basins:** Three (3)

**Discharges To:** East Caldwell Drain

**Other Contributing Water Source:** Groundwater, intermittent agricultural runoff

**Notes:** The AP-03 manhole lid is difficult to lift, especially during rain. Due to the difficulty of removing the manhole lid, this site is not sampled or accessed easily. Look into possible retrofits that would make this site more accessible for monitoring and inspections. Overgrowth and erosion from the canal bank onto the manhole lid was cleaned off following the 2021 Q1 inspection.

#### **Airport Outfall AP-04**

**Facility Condition:** Functional, maintenance required

**Outfall Structure:** Concrete Overflow Box

**Outfall Type:** Sedimentation Pond with Overflow

**Number of contributing catch basins:** Eleven (11)

**Discharges To:** East Caldwell Drain

**Other Contributing Water Source:** Groundwater

**Notes:** Gravel was added around the two unpaved catch basin inlets contributing stormwater to AP-04 following the 2021 Q1 inspection. The drainage pathway to the west corner of the pond was stabilized with riprap to reduce rill erosion and the repair appears to have been effective. A portion of the side slope to the pond has been stabilized with vegetation, the remaining portions of the side slope need to be stabilized with vegetation to prevent erosion. Significant amount of trash has accumulated in the BMP, including larger items. The BMP needs to be cleaned out, all trash removed.

#### **Airport Outfall AP-05**

**Facility Condition:** Functional

**Outfall Structure:** Concrete Manhole

**Outfall Type:** Direct Discharge

**Number of contributing catch basins:** Two (2)

**Discharges To:** East Caldwell Drain

**Other Contributing Water Source:** Groundwater, intermittent agricultural runoff (in collection manhole trough)

**Notes:** AP-05 is frequently observed to have standing water in the collection trough at the bottom of the manhole. Stormwater samples are not collected from the trough, but from the pipe entering the manhole from the northwest, which receives drainage from the Aviation Way borrow ditch.

#### **Airport Outfall AP-06**

**Facility Condition:** Functional, minor maintenance required

**Outfall Structure:** Concrete Overflow Box

**Outfall Type:** Sedimentation Pond with Overflow

**Number of contributing catch basins:** Twenty-eight (28)

**Discharges To:** East Caldwell Drain

**Other Contributing Water Source:** Groundwater

**Notes:** AP-06 has relatively uniform vegetation growth and minimal erosion of the side slopes. AP-06 has historically been observed discharging groundwater during dry weather seasons, indicating a significant groundwater contribution to the pond. Groundwater was observed discharging from the pond during the inspection. Vegetation around the inlet was over-cleared during routine maintenance, but vegetation is beginning to re-establish. Consider raising the outlet elevation to reduce the discharge of groundwater, and to give the BMP additional retention capacity for stormwater.

#### **Airport Outfall AP-07**

**Facility Condition:** Functional

**Outfall Structure:** Concrete Manhole

**Outfall Type:** Direct Discharge

**Number of contributing catch basins:** Two (2)

**Discharges To:** East Caldwell Drain

**Other Contributing Water Source:** Possibly seasonal groundwater

**Notes:** AP-07 discharges frequently, and is most frequently sampled by staff as the representative for the direct discharge outfalls. AP-07 is distinct from the other outfalls because its tributary drainage area is paved and contains the Airport's larger fueling station. Stormwater samples from this outfall often have elevated levels of TSS; a possible source is the small unpaved parking area. To minimize the potential impact of this area, it was covered in asphalt following the Q1 inspection. Another potential source of TSS is sediment tracking onto the paved area from surrounding unpaved areas, or dust blown onto the pavement. Given the size of the contributing drainage area and the intensity of potential pollutant activity occurring by necessity, consider installing control measure(s)/BMP(s) between the drainage area and this outfall to attenuate sediment and other pollutants from the stormwater before discharging.

#### **Airport Outfall AP-08**

**Facility Condition:** Functional, maintenance required

**Outfall Structure:** Vegetated Swale and CMP Culvert to Borrow Ditch

**Outfall Type:** Direct Discharge

**Number of contributing catch basins:** Seven (7)

**Discharges To:** Indian Creek

**Other Contributing Water Source:** Intermittent agricultural runoff

**Notes:** AP-08 tributary lines cross the full width of the Airport site, flowing from northeast to southwest. From the upstream portion, AP-08 receives agricultural runoff; the downstream section is a vegetated swale, which receives runoff from the paved taxiway surfaces. Active discharge from this site is infrequent, occurring once during the historical MSGP monitoring, when the storm event occurred during the irrigation season. The contributing drainage area around the vegetated swale contains exposed soil, rill erosion is occurring in these areas, should be vegetated. Riprap was placed in the bottom of the channel, following the 2021 Q1 inspection, to reduce erosion. The exposed areas have been seeded, and vegetation is beginning to establish. Additional vegetation should be planted, as needed to stabilize exposed soils.

#### **Airport Outfall AP-09**

**Facility Condition:** Poor, significant maintenance required

**Outfall Structure:** Culvert beneath fence and Aviation Way

**Outfall Type:** Sedimentation Pond with Overflow

**Number of contributing catch basins:** Nine (9)

**Discharges To:** Indian Creek

**Other Contributing Water Source:** None

**Notes:** AP-09 is relatively large and shallow, 2 feet deep or less. The bottom of the pond is cobble, and cobbles have been used to temporarily stabilize the borrow ditch tributary to the fence culvert. This BMP has experienced significant erosion and deterioration. Additional assessment and observation should be conducted to determine the best course of action to stabilize the pond, contributing drainage area, and outfall. In the interim, vegetation should be established in and around the BMP to reduce erosion. The exposed areas have been seeded, and vegetation is beginning to establish in some areas, but additional vegetative cover is needed.

#### **Airport Outfall AP-10**

**Facility Condition:** Functional, maintenance required

**Outfall Structure:** Borrow Ditch to AP-09

**Outfall Type:** Sedimentation Pond with Overflow to Borrow Ditch

**Number of contributing catch basins:** One (1)

**Discharges To:** East Caldwell Drain

**Other Contributing Water Source:** None

**Notes:** AP-10 is relatively small and shallow. The BMP was not initially vegetated or lined with gravel, but routine facility inspections determined the contributing areas were eroding significantly into the basin. Cobble was placed in the basin and the outfall borrow ditch to temporarily stabilize the area. Additional assessment and observation should be conducted to determine the best course of action to stabilize the pond, contributing drainage area, and outfall. In the interim, vegetation should be established in and around the BMP to reduce erosion.

#### **Airport Outfall AP-11**

**Facility Condition:** Functional

**Outfall Structure:** Shared Borrow Ditch

**Outfall Type:** Sedimentation Pond with Overflow

**Number of contributing catch basins:** None

**Discharges To:** Indian Creek

**Other Contributing Water Source:** Agricultural runoff

**Notes:** AP-11 is a large and deep seepage pond, fully stabilized with river cobbles. Due to the high potential for agricultural runoff and roadway runoff from Linden Avenue, the discharge point was moved upstream to the site of the pond overflow in January 2020. The stormwater pond inlet is experiencing rill erosion, from the concrete pad to the main basin of the facility. This area needs to be stabilized with cobble.

### Non-Compliance

#### Construction Area (between 504 and 516 Dauntless Place)

Unidentified drums and containers are being stored outside without any secondary containment; these materials **must** be stored inside, under cover, or with secondary containment to prevent contamination of stormwater runoff. The dumpster must have a lid or functional cover, and must be covered. No materials that could pollute stormwater runoff can be stored outside. Concrete was previously washed out directly onto the ground and into a damaged concrete washout that was not effectively containing the material; reminder that concrete can **only** be washed out into a functioning designated concrete washout area. To remediate non-compliance status:

- Store drums and containers inside, under cover, or with sufficient secondary containment
- Obtain and use a lid (or other functional cover) for the dumpster
- Store any potential pollutants inside, under cover, or with secondary containment
- Install and maintain a concrete washout if any additional concrete pouring will occur



Notes

**Silverhawk Site Refueling Station**

Stationary fuel station has a spill kit that is well marked and easily accessible, as well as a cover for the fuel pump. All mobile tankers have individual spill kits onboard, clearly marked and easily accessible. This is a great job all around!



**Silverhawk Aviation Hangar (4505 Aviation Way)**

All of the chemical drums and containers that were being stored outdoors have been removed and the dumpster has a lid, overall Silverhawk is doing a great job!



**Midfield Aviation Stationary Self-Serve Refueling Station**

Spill kit is onsite and easy to find, great job! Please install a cover for the fuel pump.



**Cascade Aircraft Management (3901 Aviation Way)**

A lid has been installed on the dumpster since the Q3 inspection. During the Q4 inspection, there were no signs of maintenance activities being conducted outside of the hangar, good job!







**Flight Doctor West (515 Taildragger Place)**

Appears to have organized/removed some materials from the outdoor storage area. Continue to ensure that none of the materials in the outdoor storage area pose a risk to polluting stormwater runoff.



**Skydown Skydiving Hangar and Fuel Tanker**

It has been determined through conversations with the owners of Skydown Skydiving that the mobile fueling tanker is not (nor has it historically been) operable and that the intention is to sell the tanker in the near future. Please get rid of the tanker as soon as possible. Moderate amount of materials are being stored outside the hangar. Should consider garbage service (i.e. a covered dumpster) for the site.



**Vintage Airframes, LLC (4411 Aviation Way)**

Increased number of materials being stored outside on the hangar apron. Ensure that these materials are being properly protected from polluting stormwater runoff and that facility is compliant with the SWPPP.



**CERTIFICATION STATEMENT**

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

**Print name and title:** Emily Johnson, Environmental Engineer

**Signature:**  **Date:** 12/3/2021

