

Stormwater Pollution Prevention Plan

for:

City of Cottonwood Municipal Airport
1001 W. Mingus Avenue
Cottonwood, AZ 86326

SWPPP Contact (s):

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Date:

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SECTION 1: FACILITY DESCRIPTION AND CONTACT INFORMATION

1.1 Facility Information

Facility Information

Name of Facility: City of Cottonwood Municipal Airport

Street: 1001 W. Mingus Avenue

City: Cottonwood State: AZ ZIP Code: 86326

County: Yavapai

Previous Permit Tracking Number: N/A (if covered under a previous permit)

Facility Latitude/Longitude

Latitude:

1. 34.734515 N (decimal degrees)

Longitude:

2. (-) 112.039421 W (decimal degrees)

Parcel Number: 406-08-002P

Driving Directions: ¼ mile west on Mingus Avenue of the intersection of State Route 89A and Mingus Avenue

Method for determining latitude/longitude (check one):

☐ USGS topographic map (specify scale: _____)

☒ ADEQ Web site ☐ GPS

☐ Other (please specify): _____

Is the facility located in Indian Country? ☐ Yes ☒ No

If yes, ADEQ cannot permit this facility. Please contact EPA as the permitting authority of the Reservation.

List total number of acres exposed to stormwater: 99.95 (acres)

Discharge Information

Is stormwater discharged to a Municipal Separate Storm Sewer System (MS4)? ☒ Yes ☐ No

If yes, provide the name of the city / county / university / military installation / VA hospital who owns the MS4:

City of Cottonwood

List of Outfall(s) (Enter all locations where industrial stormwater leaves the property, this may be a pipe, sheet flow, curb cut, ditch, etc.)

Outfall Name	Latitude (decimal degrees)	Longitude (decimal degrees)	Receiving Water
Detention Basin #1	34.736368	-112.038893	Blowout Creek

Receiving Waters

Will industrial stormwater discharge to an "Impaired Water"? ☒ Yes ☐ No

If Yes, a copy of the SWPPP must be submitted to ADEQ for review with the Notice of Intent (new permit coverage only, unless otherwise requested by ADEQ)

Name of the impaired water (and segment, if applicable): Verde River, Sycamore Creek – Oak Creek

Pollutant(s) causing the impairment: E. Coli

For pollutants identified, could those pollutants be present in the stormwater discharge? ☒ Yes ☐ No

If no, explain why: _____

For those pollutants identified, is there a completed TMDL? ☐ Yes ☒ No

TMDL information is available at ADEQ's website: <http://www.azdeq.gov>

Are any of your discharges directly into any segment of an "Outstanding Arizona Water (OAW)"?

☐ Yes ☒ No

If Yes, a copy of the SWPPP must be submitted to ADEQ for review with the NOI (new permit coverage only).

List the parameters that will be monitored for the OAW: _____

Is any part of the facility **within** 2.5 miles of an impaired water or OAW? ☒ Yes ☐ No

Effluent Limitation Guidelines (ELG)

Are any of your stormwater discharges subject to an Effluent Limitation Guideline? ☐ Yes ☒ No

If Yes, which ELG(s) apply (List Sector and Activity)? _____

Primary Industrial Activity (refer to Appendix C of the MSGP)

Identify your Primary sector and subsector: Air Transportation (Sector S)

Primary Standard Industrial Classification (SIC) Code or 2-letter Activity Code: 4581

Of the total acres exposed to stormwater, how many acres are being used for the primary activity: 99.95

Co-located Industrial Activity (if applicable): _____

SIC Code or 2-letter Activity Code: _____

Of the total acres exposed to stormwater, how many acres are being used for the secondary activity: _____

1.2 Contact Information/Responsible Parties

Facility Operator:

Contact Name: Jeffrey Tripp
Contact Telephone Number: (928) 340-2722
Contact Email Address: jtripp@cottonwoodaz.gov
Operator Business Name: City of Cottonwood
Operator Mailing Address: 1001 W. Mingus Avenue, Cottonwood, AZ 86326

1.3 Stormwater Pollution Prevention Team

SWPPP Contacts:

SWPPP Contact Name: Jeffrey Tripp
SWPPP Contact Telephone Number: (928) 340-2722
SWPPP Contact Email Address: jtripp@cottonwoodaz.gov

SWPPP Contact Name: James Bramble
SWPPP Contact Telephone Number: (928) 340-2770
SWPPP Contact Email Address: jbramble@cottonwoodaz.gov

SWPPP Contact Name: Jolten Larremore
SWPPP Contact Telephone Number: (928) 340-2772
SWPPP Contact Email Address: jlarremore@cottonwoodaz.gov

Staff Names	Individual Responsibilities
Jeffrey Tripp	Airport Manager
James Bramble	Senior Engineer, Stormwater Manager
Jolten Larremore	Stormwater Specialist

1.4 Activities at the Facility

Industrial activities on the airport property include fuel storage, aircraft storage, aircraft maintenance, aircraft fueling, and aircraft washing.

1.5 Site Location Map

See Attachment A.

1.6 Detailed Site Map

See Attachment B.

SECTION 2: SUMMARY OF POLLUTANT SOURCES

2.1 Industrial Activity and Associated Pollutants

Industrial Activity	Associated Pollutants
Aircraft Fueling	100LL Avgas, Jet A
Aircraft Maintenance	Waste oil storage
Aircraft Washing	Oil, grease, soap

2.2 Spills and Leaks

Areas of Site Where Potential Spills/Leaks Could Occur

Location	Outfalls
Fuel Storage (Tank Farm)	Detention Basin #1 / Blowout Creek
Waste Oil Storage	Detention Basin #1 / Blowout Creek

Description of Past Spills/Leaks

Date	Description	Outfalls

2.3 Unauthorized Non-Stormwater Discharges Documentation

- Date of evaluation: September 21, 2022
- Description of the evaluation criteria used:
Visual inspection to observe/detect:
 - a) Oil sheen or other contaminants on the surface near the fuel tanks
 - b) Stains or discoloration of earth or other surfaces
 - c) Stressed or dying vegetation
 - d) Poor housekeeping
 - e) Corroded or leaking storage containers
- List of the outfalls or onsite drainage points that were directly observed during the evaluation:
Detention Basin 1.

- Different types of non-stormwater discharge(s) and source locations: No non-stormwater discharges were observed.
- Action(s) taken, such as a list of control measures used to eliminate unauthorized discharge(s), if any were identified. For example, a floor drain was sealed, a sink drain was re-routed to sanitary, or an AZPDES permit application was submitted for an unauthorized cooling water discharge: No action necessary at this time.

Occurrence of Unauthorized Non-Stormwater Discharges

Date	Description	Outfalls

SECTION 3: STORMWATER CONTROL MEASURES

3.1 *Minimize Exposure*

Fuel pumps are located under canopies. Fuel tanks are double-walled and protected by steel bollards. Portable fuel trailers/trucks are double walled.

Waste oil is temporarily stored inside drums under a canopy and surrounded by a concrete secondary containment structure.

Water from aircraft washing is collected at the wash rack. It then flows through an oil separator and into the sewer system for collection and treatment.

3.2 *Good Housekeeping*

1. Sweeping apron as needed
2. Cleaning of fuel storage area when monthly inspections indicate
3. Maintain clean floors in buildings to prevent track out
4. Clearly post spill procedures and train airport users
5. Maintain spill kit supplies
6. Immediately contain spills
7. Wash aircraft only at the wash rack
8. Maintain vegetated perimeter swales
9. Properly dispose of used oil
10. Properly dispose of waste fuel
11. Regularly pick up and properly dispose of garbage and waste material.
12. Inspect monthly to identify leaks or conditions that could lead to discharges of chemicals or contact of stormwater with fuel or oil
13. Clearly label chemical and waste containers

3.3 Maintenance

1. Inspect fuel tanks, trucks and trailers monthly
2. Post contact information at the tank farm to report malfunctioning or leaking equipment
3. Regularly mow the vegetated areas around the facility

3.4 Spill Prevention and Response

1. Complete refueling activities under the canopy whenever possible
2. Immediately clean up any spills
3. Store used oil under the canopy in the designated used oil storage area.
4. Empty used oil receptacles as soon as possible when they are full
5. Post contact information for reporting spills at the tank farm and at the used oil storage area

3.5 Erosion and Sediment Controls

Detention Basin #1 is located at the west end of the runway. A perimeter berm is located along the fence on the north side of the property to direct runoff to the detention basin. All site runoff is collected in the basin allowing sediment to settle out before runoff leaves the site. Unpaved areas of the airport have maintained or native vegetation which minimizes erosion potential.

3.6 Management of Stormwater Runoff

All site runoff is contained by the perimeter berm and routed through vegetated areas allowing it to infiltrate before collecting in Detention Basin #1.

3.7 Salt Storage Piles or Piles Containing Salt

Salt is not used or stored at this facility.

3.8 Employee Training

1. Familiarize all site employees with the SWPPP and good housekeeping practices.
2. Remind existing site employees of the SWPPP and good housekeeping practices
3. Train inspectors to be able to identify non-stormwater discharges including fuel, oil, sediment and other contaminants.

3.9 Unauthorized Non-Stormwater Discharges

Refer to Section 2.3

3.10 Dust Generation and Vehicle Tracking of Industrial Materials

Areas where motor vehicles travel are paved or stabilized with gravel eliminating track out potential. The remaining site area has native grass-like vegetation that is regularly mowed which eliminates the potential for blowing dust during windy weather conditions.

SECTION 4: DESCRIPTION OF MONITORING AND SAMPLING PROCEDURES

1. **Sample Location(s).** Describe where samples will be collected (outfall name and location), including any determination that two or more outfalls are substantially identical.

Outfall Name	Location
Detention Basin #1 / Blowout Creek	1003 W. Mingus Ave. (Northeast of the Runway)

2. **Types of Analytical Monitoring, the Pollutant to be sampled and the Monitoring Frequency.** Include the type of monitoring, a list of the pollutant parameters that will be sampled and the frequency of sampling for each parameter.

Monitoring Type	Pollution Parameter	Monitoring Frequency
Impairment	E. Coli Colony (CFU)	Once per Wet Season
Nutrient	Total Nitrogen as N 1	Once per Wet Season
Impairment	Dissolved Oxygen	Once per Wet Season
Nutrient	Total Phosphorus	Once per Wet Season

3. **Types of Samples.** Include the type of samples you plan to take for each parameter, whether grab and/or composite and the method used to collect the sample such as active or passive. If you take a flow-weighted composite sample either continuous or combination, will need to record the duration of the storm, and for the combination sample, the number of samples and the time between the collection of samples.).

Pollution Parameter	Sample Type	Collection Method
E. Coli Colony (CFU)	Grab	Active
Total Nitrogen as N 1	Grab	Active
Dissolved Oxygen	Grab	Active
Total Phosphorus	Grab	Active

4. **Numeric Limitations.** Not applicable
5. **Permit Limits.** Not applicable
6. **Procedures.** Describe procedures you will follow for collecting samples, including responsible staff who will be involved, logistics for taking samples, handling samples, sample volumes, sample preservatives, holding times, laboratory to be used, QA/QC procedures, etc.

a. E. Coli Colony (CFU)

- i. **Staff Involved:** The staff responsible for collecting samples for this parameter are:

1. Jolten Larremore

- ii. **Laboratory Used:** Legend Technical Services, Inc.

- iii. **Logistics for Taking Samples:**

1. **CAS Number:** None
2. **Analytical Method:** SM 9223 (Colilert-18)
3. **Matrix:** Groundwater/Wastewater
4. **Category:** Microbiological

- iv. **Collection Vessel:** Samples are to be collected in a 100 mL sterile container. The container should have a seal on the cap (shrunk plastic or tape) from the manufacturer that indicates the container is sterile. The seal should not be removed until just before the sample is collected.
- v. **Handling Samples:** The stormwater sample(s) will be filled to the neck of the container(s). Be cautious not to overflow, rinse out or spill the preservatives contained in the bottles.
- vi. **Preservation:** Samples are to be placed on ice in the field and kept at 4°C (plus or minus 2 degrees) until analysis. Samples containing chlorine should be preserved with a dechlorinating agent like sodium thiosulfate.
- vii. **Quality Control:** Utilizing the same type of container, a field blank will be prepared utilizing distilled water and kept on ice and transported with the samples.
- viii. **Hold Time(s):** Analysis is to be completed within 8 hours of sample collection.
- b. **Total Nitrogen as N 1**
 - i. **Staff Involved:** The staff responsible for collecting samples for this parameter are:
 - 1. Jolten Larremore
 - ii. **Laboratory Used:** Legend Technical Services, Inc.
 - iii. **Logistics for Taking Samples:**
 - 1. **CAS Number:** None
 - 2. **Analytical Method:** EPA 351.2
 - 3. **Matrix:** Drinking Water, Solid & Liquid Waste, Groundwater/Wastewater
 - 4. **Category:** Inorganic Chemistry
 - iv. **Collection Vessel:** A clean 250-500 mL plastic bottle is needed to collect a stormwater sample for total nitrogen as N 1.
 - v. **Handling Samples:** The stormwater sample will be filled to the neck of the container. Be cautious not to overflow, rinse out or spill the preservatives contained in the bottles.
 - vi. **Preservation:** Samples are to be acidified with sulfuric acid to pH <2, and cooled to 4°C (plus or minus 2 degrees) at the time of collection.
 - vii. **Quality Control:** None.
 - viii. **Hold Time(s):** Analysis is to be completed within 28 days of sample collection.
- c. **Dissolved Oxygen**
 - i. **Staff Involved:** The staff responsible for collecting samples for this parameter are:
 - 1. Jolten Larremore
 - ii. **Laboratory Used:** Legend Technical Services, Inc.
 - iii. **Logistics for Taking Samples:**
 - 1. **CAS Number:** 7782-44-7
 - 2. **Analytical Method:** SM 4500-O_G
 - 3. **Matrix:** Groundwater/Wastewater
 - 4. **Category:** Inorganic Chemistry
 - iv. **Collection Vessel:** A single 1 L plastic bottle is needed to collect a stormwater sample for dissolved oxygen.
 - v. **Handling Samples:** The stormwater sample will be filled to the neck of the container. Be mindful not to overflow or pre-rinsed the bottle.
 - vi. **Preservation:** No preservatives are needed for this parameter.
 - vii. **Quality Control:** None.
 - viii. **Hold Time(s):** Dissolved oxygen is typically a field measurement. Whether on the field or in a laboratory, it should be analyzed within 24 hours of collection.
- d. **Total Phosphorus**
 - i. **Staff Involved:** The staff responsible for collecting samples for this parameter are:
 - 1. Jolten Larremore

- ii. **Laboratory Used:** Legend Technical Services, Inc.
- iii. **Logistics for Taking Samples:**
 - 1. **CAS Number:** 7723-14-0
 - 2. **Analytical Method:** EPA 365.3
 - 3. **Matrix:** Groundwater/Wastewater
 - 4. **Category:** Inorganic Chemistry
- iv. **Collection Vessel:** A clean 250-500 mL plastic bottle is needed to collect a stormwater sample for total phosphorus.
- v. **Handling Samples:** The stormwater sample will be filled to the neck of the container. Be cautious not to overflow, rinse out or spill the preservatives contained in the bottles.
- vi. **Preservation:** Samples are to be acidified with sulfuric acid to pH <2, and cooled to 4°C (plus or minus 2 degrees) at the time of collection.
- vii. **Quality Control:** None.
- viii. **Hold Time(s):** Analysis is to be completed within 28 days of sample collection.

7. Previous Sampling Results.

There is no previous data. The airport has traditionally been a no-discharge facility and not under ADEQ permit.

SECTION 5: INSPECTIONS

Routine facility inspections will be completed by:

- 1. Jeffrey Tripp
- 2. James Bramble
- 3. Jolten Larremore

Routine facility inspections will be conducted once each quarter as defined below:

- 1. January through March
- 2. April through June
- 3. July through September
- 4. October through December

The following areas will be inspected (See Attachment B):

- 1. Detention Basin #1
- 2. Fuel Farm
- 3. Waste Oil Storage
- 4. Wash Rack

Visual inspections will be completed by:

- 1. Jeffrey Tripp
- 2. James Bramble
- 3. Jolten Larremore

Visual inspections will be conducted once each quarter as defined below:

- 1. January through March
- 2. April through June
- 3. July through September
- 4. October through December

The following areas will be visually inspected (See Attachment B):

1. Detention Basin #1
2. Fuel Farm
3. Waste Oil Storage
4. Wash Rack

SECTION 6: SECTOR SPECIFIC REQUIREMENTS

Deicing chemicals are not used at this airport so there are no sector specific requirements.

SECTION 7: SWPPP CERTIFICATION

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.

Name: James Bramble

Title: Senior Engineer

Signature: 

Date: September 27, 2022

SECTION 8: SWPPP MODIFICATIONS

SWPPP Amendment Log (Attach additional pages as needed)

No.	Description	Date	Prepared By:

SWPPP ATTACHMENTS

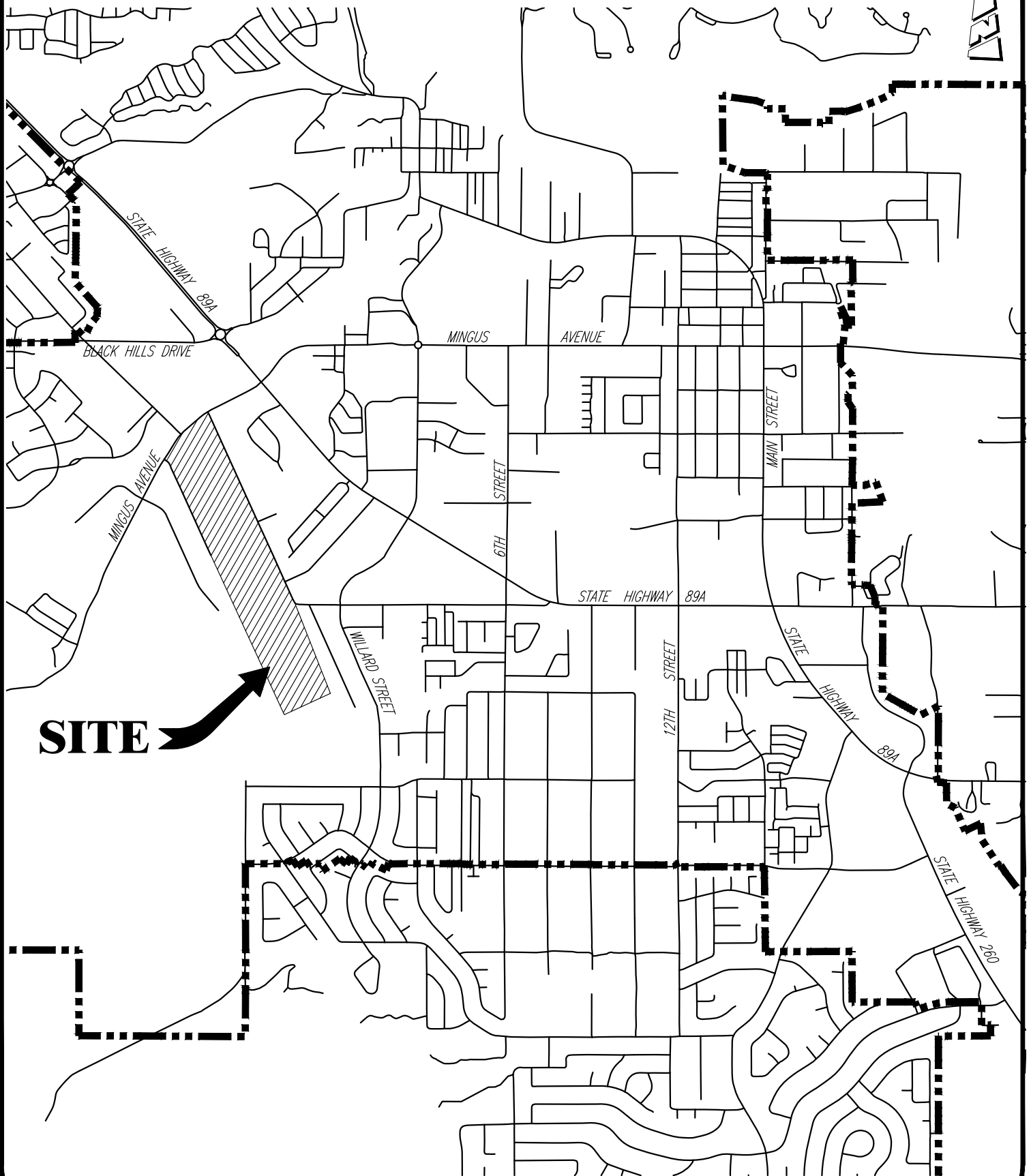
Attachment A – General Location Map

Attachment B – Detailed Site Map

Attachment C – Copy of the MSGP

ATTACHMENT A

GENERAL LOCATION MAP



ATTACHMENT B DETAILED SITE MAP

NOTES:

PROPERTY SIZE: 100 ACRES

INSPECTION SITES:

1. DETENTION BASIN #1
2. CULVERT (OFFSITE)
3. SILVER SPRINGS CULVERT (OFFSITE)
4. FUEL FARM
5. WASTE OIL STORAGE AREA
6. WASH RACK

