

MEMORANDUM

DATE: 2/12/2025

TO: Mr. Michael Carr, Santa Fe County
Ms. Jacqueline Beam, Santa Fe County

FROM: Sarah Ganley, PE, ENV SP

SUBJECT: Santa Fe County MS4 2024 Dry Weather Field Screening Report

Introduction

Bohannon Huston, Inc. (BHI) and Santa Fe County (County) conducted a field visit on December 9, 2024. This field visit included inventory reconnaissance as well as dry weather field screening of identified stormwater outfalls for the County Municipal Separate Storm Sewer System (MS4) jurisdictional areas.

In addition to the sites visited on December 9, 2024, BHI and the County conducted a field visit on February 24, 2022, to look at the County's drainage facilities and potential outfall locations. The locations visited in 2022 would not be included in the County's MS4 dry weather field screening program but were potential locations for future, cooperative wet weather monitoring.

This memo summarizes the County stormwater outfalls visited in December 2024 and the field screening observations. In addition, it includes the recommended outfall sites that should be inspected for the County's MS4 dry weather field screening program.

MS4 Permit and SWMP Requirements

The dry weather field screening meets the requirements in the County's MS4 permit and the Stormwater Management Program (SWMP) Strategy 3.1.2, supporting detecting and eliminating illicit discharges into the stormwater drainage systems within the County, which relates to the 2007 MS4 Permit NMR040000 (2007 MS4 Permit), Section 5.2.3.7, Illicit Discharge Detection and Elimination. This memo completes Task 3 of BHI's Professional Services Agreement for Small MS4 Permit with the County.

The 2007 MS4 Permit, Section 5.2.3.7, Illicit Discharge Detection and Elimination, requires that the County conduct dry weather field screening for non-stormwater flows. The screening must include field tests of selected chemical parameters as indicators of discharge sources if any runoff is detected. Screening level tests may utilize less expensive "field test kits" using test methods not approved by EPA under 40 CFR 136, provided the manufacturer's published detection ranges are adequate for the illicit discharge detection purposes.

The 2024 New Mexico (NM) Strawman MS4 Permit, which is a draft of the proposed MS4 Permit for all of NM, has similar dry weather field screening requirements in Section I.D.4.d.(i)(c), with more details and schedules for the screening than the County's current 2007 MS4 Permit. For example, the 2024 NM Strawman MS4 Permit requires the permittee to screen the entire regulated area at least once every 5 years and high priority areas at least once every year.

The dry weather field screening is one component of the current and proposed MS4 Illicit Discharge and Elimination requirements. In addition to annual and permit term field screening, this field screening process should be followed if and when the County becomes aware of any non-stormwater flows (illicit discharges) within its MS4 jurisdiction.

December 2024 Dry Weather Field Screening Findings

An *Outfall Inventory/Sample Collections Sheet* was completed for each of the locations visited on December 9, 2024. No runoff was noted at any of the locations visited during this dry weather field screening and therefore, no field testing or lab testing of any samples were required. The completed *Outfall Inventory/Sample Collection Field Sheets* are included in an attachment to this memo. BHI used the Esri Field Maps application during the field visit and photos were collected within this application. The geodatabase, including feature points with the photos from this field visit have been provided to the County.

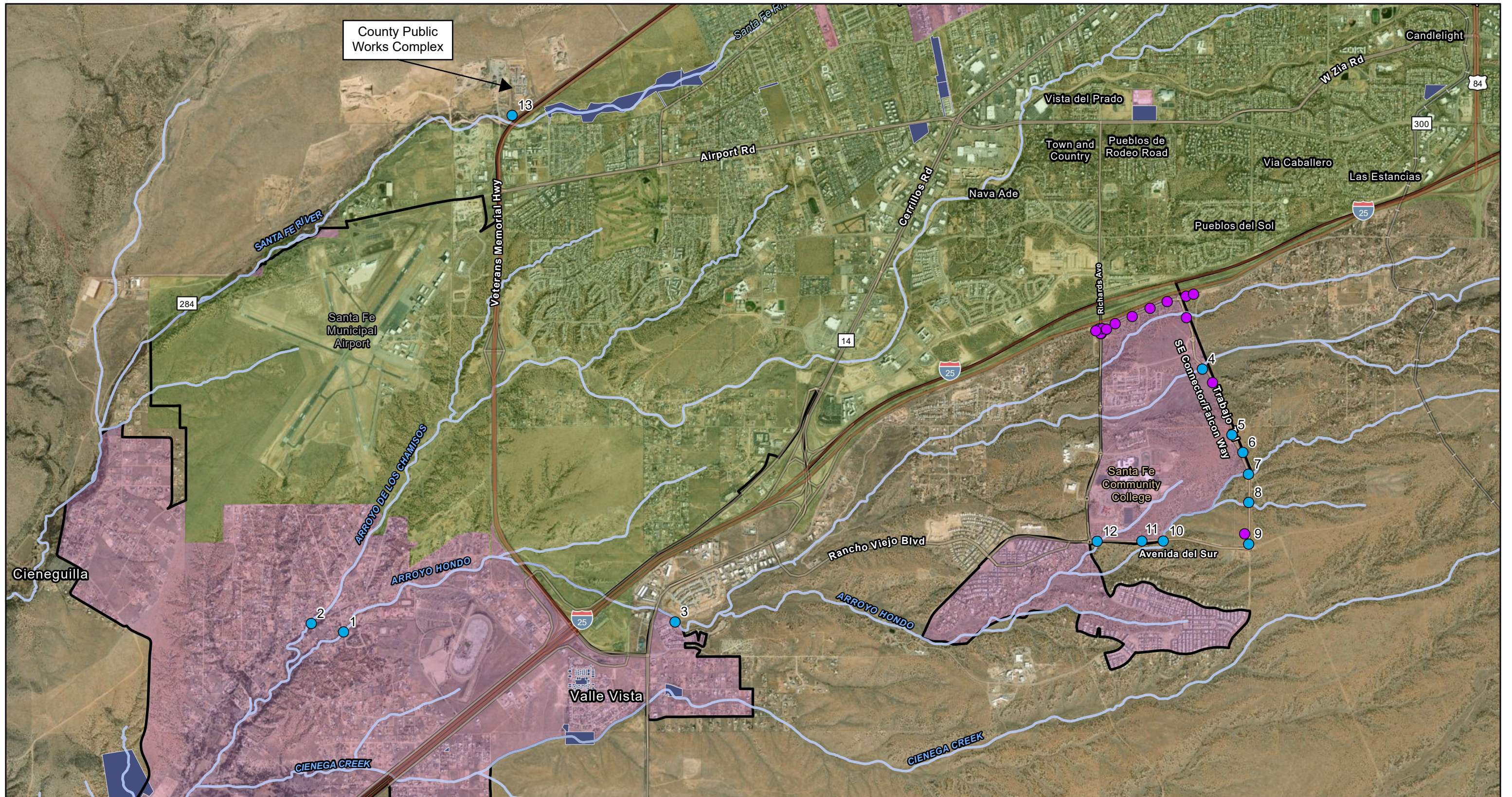
Tables 1 and 2 summarize the outfall locations visited and documented on December 9, 2024. Table 1 identifies outfall locations that the County should inspect as part of the MS4 dry weather field screening program. These locations are also shown on Figure 1 - Santa Fe County December 2024 MS4 Dry Weather Field Screening Locations (page 4). Table 2 (page 5) identifies locations that do not need regular inspections for this program but are documented as potential future locations to consider if downstream water quality becomes a concern.

Table 1: County Outfall Locations to Inspect for MS4 Dry Weather Field Screening Program








Outfall Number	Latitude	Longitude	Location Description	Arroyo
1	35.5902415°N	106.0892637°W	Low water crossing on Paseo Del Angel South. The County should monitor and remove any sediment buildup on the roadway. Removed sediment should be placed so that it does not reenter the arroyo. The adjacent property has erosion issues on roadway slope. The County should monitor this slope for general roadway maintenance.	Arroyo Hondo
2	35.5910438°N	106.0930474°W	Los Pinos Road bridge crossing. This is within the County MS4 jurisdiction, near the boundary with the City of Santa Fe. This point is located upstream of confluence with Arroyo Hondo.	Arroyo de Los Chamisos
3	35.5911900°N	106.0503904°W	This location is in the County MS4 area and located at the downstream edge of the County's Sustainable Development Area (SDA) 1, an area of increasing development identified as a stormwater management priority area for the County.	Arroyo Hondo

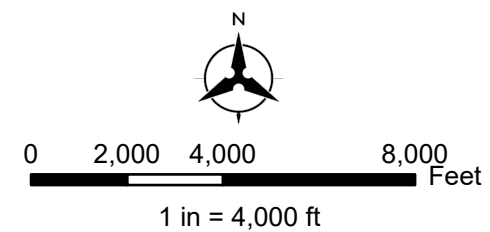
Table 1: County Outfall Locations to Inspect for MS4 Dry Weather Field Screening Program (continued)

Outfall Number	Latitude	Longitude	Location Description	Arroyo
4	35.6152956°N	105.9885633°W	County SE Connector Road, also named Falcon Way. This location has eight (8)-8' x 6' box culverts with two (2) County inlets discharging County roadway runoff to Arroyo Hondo.	Arroyo Hondo
5	35.6090258°N	105.9851024°W	County SE Connector Road, also named Falcon Way. One (1) inlet discharges to an 18-inch culvert and into a tributary to Arroyo Hondo.	Arroyo Hondo
6	35.6073506°N	105.9838180°W	County SE Connector Road, also named Falcon Way. A 36-inch culvert south of College Drive roundabout. Discharge is a tributary of Arroyo Hondo.	Arroyo Hondo
7	35.6052732°N	105.9831607°W	County SE Connector Road, also named Falcon Way. Three (3) inlets connect to the 48-inch culverts under the road and discharge into a tributary to Arroyo Hondo.	Arroyo Hondo
8	35.6025844°N	105.9831294°W	County SE Connector Road, also named Falcon Way. One (1) inlet connects into a 36-inch culvert under the roadway and discharges to the culverts located to the south. This inlet discharges to an unnamed tributary to Rancho Canada, tributary to Arroyo Hondo.	Arroyo Hondo
9	35.5986102°N	105.9831318°W	County SE Connector Road, also named Falcon Way. Two (2) curb inlets located at roundabout. Plans show a second inlet on the northbound lane that was not located in the field. Inlets discharge into 24-inch culvert.	Arroyo Hondo
10	35.5989014°N	105.9931495°W	Inlets into six (6) – 36-inch culverts under Avenida del Sur.	Arroyo Hondo
11	35.5988996°N	105.9956539°W	Inlets into one (1) – 36-inch culvert under Avenida del Sur.	Arroyo Hondo
12	35.5988785°N	105.0009070°W	Inlets discharge to four (4) – 36-inch culverts under Avenida del Sur.	Arroyo Hondo
13	35.6394665°N	106.0694967°W	County Public Works Complex. Culvert outlet from the main ponding area. Outfall location for this pond is currently unknown and County will determine its location.	Santa Fe River



Bohannon  **Huston**
www.bhinc.com 800.877.5332

-  2021 Census Urbanized Area
-  Santa Fe County MS4 Urbanized Area
-  Santa Fe County MS4 Jurisdiction
-  City of Santa Fe MS4 Jurisdiction
-  MS4 Dry Weather Field Screening Locations
-  Potential Future MS4 Dry Weather Field Screening Locations
-  Flowline



Santa Fe County MS4

Figure 1
December 2024
Dry Weather Field
Screening Locations

Table 2: Outfall Locations Related Inspections That Do Not Need MS4 Dry Weather Field Screening

Latitude	Longitude	Location Description	Arroyo
35.6127390°N	106.0720767°W	This location is in the City of Santa Fe MS4 jurisdiction and upstream of the County MS4 area by approximately 1.8 miles. This outfall should not be monitored by the County unless there are any downstream water quality issues identified in the future.	Arroyo de Los Chamisos
35.6100415°N	105.9997628°W	This is a permitted wastewater discharge into Arroyo Hondo from the small domestic water system that is located east of Richards Avenue and north of the Santa Fe Community College. This outfall is permitted to Santa Fe Community College through the New Mexico Environment Department (NMED) Groundwater Bureau and BHI did not find any violations reported for this permit. The County does not need to monitor this location. However, if E. coli or nutrients become an issue in future downstream stormwater monitoring, this location could be looked at as a potential source.	Arroyo Hondo

The County provided BHI with the roadway construction plan set for the SE\NE Connectors Road Project, May 2022 (Roadway Plans), after the December 9, 2024 field inspection. Upon review of the Roadway Plans, BHI identified several locations that should be inspected for the MS4 dry weather field screening starting in 2025. Discharge from the locations listed below will reach Arroyo Hondo. The approximate location of the inlets listed below are shown in Figure 1 and have not been assigned outfall numbers. These areas are potential future screening locations that should be located and inspected in 2025 and assigned outfall numbers, if appropriate, at that time.

A. County SE Connector Road, also named Falcon Way

The following inlets were not inspected in 2024, and should be located and inspected in 2025:

- One (1) inlet on west side of roadway, located approximately 725 feet south of Outfall #4. (Inlets into the eight (8) - 8' x 6' box culverts). Roadway Plans sheet number 10-28.
- One (1) inlet on west side of roadway, located approximately 2,300 feet north of Outfall #4. (Inlets into the eight (8) - 8' x 6' box culverts). Roadway Plans sheet number 10-32.
- Two (2) inlets at roundabout with SE Connector and Avenida del Sur. Roadway Plans sheet number 10-11.

B. *County Rabbit Road/NE Connector, Roadway* (Plans sheets 10-1 through 10-10)

This area was not investigated in December 2024, and should be located and inspected in 2025:

- There are an estimated four (4) inlets at the Dinosaur Trail/Richards Avenue/Rabbit Road roundabout. Roadway Plans sheets 10-1 and 10-2.
- One (1) inlet on Dinosaur Trail west of the Dinosaur Trail/Richards Avenue/Rabbit Road roundabout. Roadway Plans sheet 10-3.
- There are an estimated seven (7) inlets along Rabbit Road between the Dinosaur Trail/Richards Avenue/Rabbit Road roundabout and SE Connector Road, also named Falcon Way. Some of the locations shown in Figure 1 may have multiple inlets. Roadway Plans sheets 10-4 through 10-10.

Summary and Next Steps

The dry weather field screening meets the requirements in the County's MS4 permit and the SWMP Strategy 3.1.2, supporting detecting and eliminating illicit discharges into the stormwater drainage systems within the County, which relates the 2007 MS4 Permit, Section 5.2.3.7, Illicit Discharge Detection and Elimination. Thirteen (13) locations were identified as dry weather field screening outfalls (Table 1), with the majority of them located along the new County SE Connector Road, also named Falcon Way, and Avenida del Sur. Review of the SE\NE Connectors Roadway Plans provided after the field screening identified up to 13 additional potential locations to consider for dry weather field screening. The County should visit and document these additional locations in 2025.

As the County progresses in developing written MS4 procedures, an Illicit Discharge Detection and Elimination dry weather field screening procedure is recommended and is part of the SWMP strategy 3.1.2 requirement. It is recommended that this procedure include the following:

1. Schedule for regular dry weather field screening,
2. Timing of outfall dry weather field screening related to antecedent dry period,
3. Field screening checklist (already developed with this task and used for this report),
4. Procedure for a field screening process to follow if and when the County becomes aware of any non-stormwater flows (illicit discharges) within its MS4 jurisdiction,
5. Determination and identification of field tests to use for selected chemical parameters as indicators of discharge sources,
6. Procedures to follow if lab analysis is required of any flows identified during the dry weather field screening, and
7. Corrective action responses by the County for typical illicit discharges that may be encountered.

SG/ab

Attachment: Completed Outfall Inventory/Sample Collection Field Sheets - December 9, 2024



OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 1: BACKGROUND DATA

Date: 12/9/24		Time: 1:30pm	
Investigators: Michael Carr (SFC), Brickman House (SFC), Sarah Gantley (BHT)			
Air Temperature (°F): 46°F	Rainfall (in.):	Last 24 hours: 0"	Last 48 hours: 0"
Latitude: 35.612789°N	Longitude: 106.072077°W	GPS Unit: ESRI Field Maps	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Open Space		
<input type="checkbox"/> Ultra-Urban Residential	<input type="checkbox"/> Institutional		
<input checked="" type="checkbox"/> Suburban Residential (upstream)	Other: _____		
<input type="checkbox"/> Commercial	Known Industries: _____		
Notes (e.g., origin of outfall, if known):			
Arroyo de los Chamisos. First MS4 inspection by County.			
Not in County MS4 area. No need to monitor this annually,			

SECTION 2: OUTFALL DESCRIPTION

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
NMDOT 599 <input checked="" type="checkbox"/> Closed Pipe box culverts	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input checked="" type="checkbox"/> Other: 7 box culverts	Diameter/Dimensions: NMDOT Infrastructure Did not measure	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open Drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> Rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic: <input type="checkbox"/> Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If No, skip to Section 5)				
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

SECTION 3: QUANTITATIVE CHARACTERIZATION N/A

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	--
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	_____, _____	Ft, In	Tape measure
	Measured length	_____, _____	Ft, In	Tape measure
	Time of travel		S	Stop watch
Water Temperature			°F	Thermometer
pH			pH Units	Test strip / Probe
Ammonia			mg/L	Test strip
DO			mg/L	
Conductivity			uS/cm	



OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 4: PHYSICAL INDICATORS FOR FLOWING OUTFALLS ONLY *N/A - No Flow*

Are Any Physical Indicators Present in the Flow? ☐ Yes ☐ No *(If No, skip to Section 5)*

INDICATOR	CHECK IF PRESENT	DESCRIPTION	RELATIVE SEVERITY INDEX (1 - 3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables - Does Not Include Trash!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (toilet paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

SECTION 5: PHYSICAL INDICATORS FOR BOTH FLOWING AND NON-FLOWING OUTFALLS

Are Physical Indicators That Are Not Related to Flow Present? ☐ Yes ☒ No *(If No, skip to Section 6)*

INDICATOR	CHECK IF PRESENT	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor Pool Quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe Benthic Growth (bacteria and algae)	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

SECTION 6: OVERALL OUTFALL CHARACTERIZATION FOR POTENTIAL ILLICIT DISCHARGE CONCERNS

☒ Unlikely ☐ Potential (presence of two or more indicators)
☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

SECTION 7: DATA COLLECTION *N/A*

1. Sample for the lab? ☐ Yes ☐ No
 2. If yes, collected from: ☐ Flow ☐ Pool

SECTION 8: ANY NON-ILLICIT DISCHARGE CONCERNS (e.g., trash or needed infrastructure repairs)?

This location is in City of Santa Fe MS4 jurisdiction. This is upstream of the County MS4 area (approx. 1.8 miles). This outfall should not be monitored by the County unless there is a downstream issue & you need to trace your way upstream to investigate.



OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 1: BACKGROUND DATA

Date: 12/9/24		Time: 1:50	
Investigators: Michael Carr (SFC), Brickman House (SFC), Sarah Ganley (BHI)			
Air Temperature (°F): 46°F	Rainfall (in.):	Last 24 hours: 0"	Last 48 hours: 0"
Latitude: 35.590241° N	Longitude: 106.089264° W	GPS Unit: Esri field maps	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial	<input type="checkbox"/> Open Space		
<input type="checkbox"/> Ultra-Urban Residential	<input type="checkbox"/> Institutional		
<input checked="" type="checkbox"/> Suburban Residential - rural residential	Other: _____		
<input type="checkbox"/> Commercial	Known Industries: _____		
Notes (e.g., origin of outfall, if known):			
Hondo Arroyo, low water crossing in County N4 area. Paseo de Angel S. Adjacent property has erosion issues on roadway slope.			

SECTION 2: OUTFALL DESCRIPTION

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input type="checkbox"/> Circular <input type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: _____	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input checked="" type="checkbox"/> Open Drainage	<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Earthen - crossed paved road <input type="checkbox"/> Rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic: <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	(Sediment had been cleared off roadway.)
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If No, skip to Section 5)			
Flow Description (if present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

SECTION 3: QUANTITATIVE CHARACTERIZATION N/A

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	--
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Water Temperature			°F	Thermometer
pH			pH Units	Test strip / Probe
Ammonia			mg/L	Test strip
DO			mg/L	
Conductivity			uS/cm	



OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 4: PHYSICAL INDICATORS FOR FLOWING OUTFALLS ONLY

Are Any Physical Indicators Present in the Flow? ☐ Yes ☐ No (If No, skip to Section 5) *N/A - No flow*

INDICATOR	CHECK IF PRESENT	DESCRIPTION	RELATIVE SEVERITY INDEX (1 - 3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables - Does Not Include Trash!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (toilet paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

SECTION 5: PHYSICAL INDICATORS FOR BOTH FLOWING AND NON-FLOWING OUTFALLS

Are Physical Indicators That Are Not Related to Flow Present? ☐ Yes ☒ No (If No, skip to Section 6)

INDICATOR	CHECK IF PRESENT	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor Pool Quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe Benthic Growth (bacteria and algae)	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

SECTION 6: OVERALL OUTFALL CHARACTERIZATION FOR POTENTIAL ILLICIT DISCHARGE CONCERNS

☒ Unlikely ☐ Potential (presence of two or more indicators)
☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

SECTION 7: DATA COLLECTION *N/A*

1. Sample for the lab? ☐ Yes ☐ No
 2. If yes, collected from: ☐ Flow ☐ Pool

SECTION 8: ANY NON-ILLICIT DISCHARGE CONCERNS (e.g., trash or needed infrastructure repairs)?

Hondo Arroyo. In MS4 jurisdiction for County. County should monitor sediment and sediment build up / release into the arroyo.

**Suggest Monitoring Here 1x per year.*



OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 1: BACKGROUND DATA

Date: 12/9/24	Time: 1:55
Investigators: Michael Carr (GFC), Brickman House (SFC), Sarah Gamley (BHE)	
Air Temperature (°F) 46°F	Rainfall (in.): Last 24 hours: 0" Last 48 hours: 0"
Latitude: 35.591044°N	Longitude: 106.093047°W GPS Unit: ESRI field maps
Land Use in Drainage Area (Check all that apply): <input type="checkbox"/> Industrial <input type="checkbox"/> Open Space <input type="checkbox"/> Ultra-Urban Residential <input type="checkbox"/> Institutional <input checked="" type="checkbox"/> Suburban Residential -rural residential Other: _____ <input type="checkbox"/> Commercial Known Industries: _____	
Notes (e.g., origin of outfall, if known): Arroyo de los Chamisos, Los Pinos Rd. Bridge crossing. County has opening work on this bridge (in 2025)?	

SECTION 2: OUTFALL DESCRIPTION

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input type="checkbox"/> Circular <input type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: _____	In Water: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input checked="" type="checkbox"/> Open Drainage	<input checked="" type="checkbox"/> Concrete bridge <input checked="" type="checkbox"/> Earthen channel <input type="checkbox"/> Rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic: <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If No, skip to Section 5)			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

SECTION 3: QUANTITATIVE CHARACTERIZATION N/A

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	--
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Water Temperature			°F	Thermometer
pH			pH Units	Test strip / Probe
Ammonia			mg/L	Test strip
DO			mg/L	
Conductivity			uS/cm	

OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 4: PHYSICAL INDICATORS FOR FLOWING OUTFALLS ONLY *N/A/No Flow*

Are Any Physical Indicators Present in the Flow? ☐ Yes ☐ No *(If No, skip to Section 5)*

INDICATOR	CHECK IF PRESENT	DESCRIPTION	RELATIVE SEVERITY INDEX (1 – 3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Faint	<input type="checkbox"/> 2 – Easily detected	<input type="checkbox"/> 3 – Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Faint colors in sample bottle	<input type="checkbox"/> 2 – Clearly visible in sample bottle	<input type="checkbox"/> 3 – Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 – Slight cloudiness	<input type="checkbox"/> 2 – Cloudy	<input type="checkbox"/> 3 – Opaque
Floatables – Does Not Include Trash!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (toilet paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Few/slight; origin not obvious	<input type="checkbox"/> 2 – Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 – Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

SECTION 5: PHYSICAL INDICATORS FOR BOTH FLOWING AND NON-FLOWING OUTFALLS

Are Physical Indicators That Are Not Related to Flow Present? ☐ Yes ☒ No *(If No, skip to Section 6)*

INDICATOR	CHECK IF PRESENT	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor Pool Quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe Benthic Growth (bacteria and algae)	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

SECTION 6: OVERALL OUTFALL CHARACTERIZATION FOR POTENTIAL ILLICIT DISCHARGE CONCERNS

☒ Unlikely ☐ Potential (presence of two or more indicators)
☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

SECTION 7: DATA COLLECTION *N/A*

1. Sample for the lab? ☐ Yes ☐ No
 2. If yes, collected from: ☐ Flow ☐ Pool

SECTION 8: ANY NON-ILLICIT DISCHARGE CONCERNS (e.g., trash or needed infrastructure repairs)?

*Arroyo de Los Chamisos. In MS4 jurisdiction for County.
Suggest monitoring here 1x per year.*



OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 1: BACKGROUND DATA

Date: 12/9/24		Time: 2:00 pm	
Investigators: Michael Carr (SFC), Brickman House (SFC), Sarah Ganley (BHE)			
Air Temperature (°F): 46°F	Rainfall (in.): Last 24 hours: 0"	Last 48 hours: 0"	
Latitude: 35.59119°N	Longitude: 106.05639°W	GPS Unit: ESRI field maps	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial <input type="checkbox"/> Ultra-Urban Residential <input checked="" type="checkbox"/> Suburban Residential <input type="checkbox"/> Commercial		<input type="checkbox"/> Open Space <input type="checkbox"/> Institutional Other: _____ Known Industries: _____	
Notes (e.g., origin of outfall, if known): Arroyo Honda in County MS4 area and near downstream edge of SDAI High Development Area. Area is downstream of lots of developing areas.			

SECTION 2: OUTFALL DESCRIPTION

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
<input type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: _____ _____	In Water: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input checked="" type="checkbox"/> Open Drainage	<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Earthen <input type="checkbox"/> Rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic: <input type="checkbox"/> Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If No, skip to Section 5)				
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

SECTION 3: QUANTITATIVE CHARACTERIZATION N/A

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	--
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	_____ ' _____"	Ft, In	Tape measure
	Measured length	_____ ' _____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Water Temperature			°F	Thermometer
pH			pH Units	Test strip / Probe
Ammonia			mg/L	Test strip
DO			mg/L	
Conductivity			uS/cm	



OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 4: PHYSICAL INDICATORS FOR FLOWING OUTFALLS ONLY *N/A - No Flow*

Are Any Physical Indicators Present in the Flow? ☐ Yes ☐ No *(If No, skip to Section 5)*

INDICATOR	CHECK IF PRESENT	DESCRIPTION	RELATIVE SEVERITY INDEX (1 - 3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables - Does Not Include Trash!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (toilet paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

SECTION 5: PHYSICAL INDICATORS FOR BOTH FLOWING AND NON-FLOWING OUTFALLS

Are Physical Indicators That Are Not Related to Flow Present? ☐ Yes ☒ No *(If No, skip to Section 6)*

INDICATOR	CHECK IF PRESENT	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor Pool Quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe Benthic Growth (bacteria and algae)	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

SECTION 6: OVERALL OUTFALL CHARACTERIZATION FOR POTENTIAL ILLICIT DISCHARGE CONCERNS

☒ Unlikely ☐ Potential (presence of two or more indicators)
☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

SECTION 7: DATA COLLECTION *N/A*

1. Sample for the lab? ☐ Yes ☐ No
 2. If yes, collected from: ☐ Flow ☐ Pool

SECTION 8: ANY NON-ILLICIT DISCHARGE CONCERNS (e.g., trash or needed infrastructure repairs)?

lots of development is and will occur upstream of here.
 This is a good location to monitor 1x per year.



OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 1: BACKGROUND DATA

Date: 12/9/24	Time: 2:15pm		
Investigators: Michael Carr (SFC), Brickman House (SFC), Sarah Canley (BHL)			
Air Temperature (°F) 48°F	Rainfall (in.):	Last 24 hours: 0"	Last 48 hours: 0"
Latitude: 35.610041°N	Longitude: 105.999763°W	GPS Unit: Esri Field maps	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Open Space		
<input type="checkbox"/> Ultra-Urban Residential	<input type="checkbox"/> Institutional		
<input type="checkbox"/> Suburban Residential	Other: _____		
<input type="checkbox"/> Commercial	Known Industries: _____		
Notes (e.g., origin of outfall, if known): This is a permitted (NMED Groundwater Bureau) outfall for the SFCC wastewater system. County does not need to monitor unless downstream sampling (future) has any pollutant concerns - then could look to this area as a potential source.			

SECTION 2: OUTFALL DESCRIPTION

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
NMED Permitted Closed Pipe Wastewater discharge from SFCC	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: _____	In Water: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open Drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> Rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic: <input type="checkbox"/> Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If No, skip to Section 5)				
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

SECTION 3: QUANTITATIVE CHARACTERIZATION - N/A

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	--
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	_____ ' _____"	Ft, In	Tape measure
	Measured length	_____ ' _____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Water Temperature			°F	Thermometer
pH			pH Units	Test strip / Probe
Ammonia			mg/L	Test strip
DO			mg/L	
Conductivity			uS/cm	



OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 4: PHYSICAL INDICATORS FOR FLOWING OUTFALLS ONLY

Are Any Physical Indicators Present in the Flow? ☐ Yes ☐ No (If No, skip to Section 5) *N/A - no flow*

INDICATOR	CHECK IF PRESENT	DESCRIPTION	RELATIVE SEVERITY INDEX (1 - 3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables - Does Not Include Trash!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (toilet paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

SECTION 5: PHYSICAL INDICATORS FOR BOTH FLOWING AND NON-FLOWING OUTFALLS

Are Physical Indicators That Are Not Related to Flow Present? ☒ Yes ☐ No (If No, skip to Section 6)

INDICATOR	CHECK IF PRESENT	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	<i>Because of discharge - There is a lot of veg. growth. Cat tails and other veg. types not typical in arid climate.</i>
Poor Pool Quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe Benthic Growth (bacteria and algae)	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

SECTION 6: OVERALL OUTFALL CHARACTERIZATION FOR POTENTIAL ILLICIT DISCHARGE CONCERNS

- ☐ Unlikely ☐ Potential (presence of two or more indicators)
☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

SECTION 7: DATA COLLECTION *N/A*

1. Sample for the lab? ☐ Yes ☐ No
 2. If yes, collected from: ☐ Flow ☐ Pool

SECTION 8: ANY NON-ILLICIT DISCHARGE CONCERNS (e.g., trash or needed infrastructure repairs)?



SANTA FE COUNTY

OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 1: BACKGROUND DATA

Date: 12/9/24	Time: 2:30pm		
Investigators: Michael Carr (SFC), Brickman House (SFC), Sarah Ganley (BHR)			
Air Temperature (°F) 48°F	Rainfall (in.):	Last 24 hours: 0"	Last 48 hours: 0"
Latitude: 35° 6' 52.96" N	Longitude: 105° 9' 88.563" W	GPS Unit: Esri Field map	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Open Space		
<input type="checkbox"/> Ultra-Urban Residential	<input type="checkbox"/> Institutional		
<input checked="" type="checkbox"/> Suburban Residential - rural residential	Other: _____		
<input type="checkbox"/> Commercial	Known Industries: _____		
Notes (e.g., origin of outfall, if known): NE SE connector - Falcon Way. Roadway inlets into Arroyo Hondo. (SE connector)			

- These 2 Inlets and outfall should be monitored at least 1 x per year.

SECTION 2: OUTFALL DESCRIPTION

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe 8-CBC's crossing w/ 1 inlet	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input checked="" type="checkbox"/> Other: 8	Diameter/Dimensions: 8' x 6' 4' x 6' Plan Set Sheet 10-29	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open Drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> Rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic: <input type="checkbox"/> Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If No, skip to Section 5)				
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

SECTION 3: QUANTITATIVE CHARACTERIZATION N/A

FIELD DATA FOR FLOWING OUTFALLS

PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	--
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Water Temperature			°F	Thermometer
pH			pH Units	Test strip / Probe
Ammonia			mg/L	Test strip
DO			mg/L	
Conductivity			uS/cm	



OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 4: PHYSICAL INDICATORS FOR FLOWING OUTFALLS ONLY

Are Any Physical Indicators Present in the Flow? ☐ Yes ☐ No (If No, skip to Section 5) *N/A*

INDICATOR	CHECK IF PRESENT	DESCRIPTION	RELATIVE SEVERITY INDEX (1 – 3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Faint	<input type="checkbox"/> 2 – Easily detected	<input type="checkbox"/> 3 – Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Faint colors in sample bottle	<input type="checkbox"/> 2 – Clearly visible in sample bottle	<input type="checkbox"/> 3 – Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 – Slight cloudiness	<input type="checkbox"/> 2 – Cloudy	<input type="checkbox"/> 3 – Opaque
Floatables – Does Not Include Trash!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (toilet paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Few/slight; origin not obvious	<input type="checkbox"/> 2 – Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 – Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

SECTION 5: PHYSICAL INDICATORS FOR BOTH FLOWING AND NON-FLOWING OUTFALLS

Are Physical Indicators That Are Not Related to Flow Present? ☐ Yes ☐ No (If No, skip to Section 6)

INDICATOR	CHECK IF PRESENT	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	<i>No concerns w/ discharge - some concern w/ slope erosion-rilling. Newly constructed.</i>
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor Pool Quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe Benthic Growth (bacteria and algae)	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

SECTION 6: OVERALL OUTFALL CHARACTERIZATION FOR POTENTIAL ILLICIT DISCHARGE CONCERNS

☒ Unlikely ☐ Potential (presence of two or more indicators)
☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

SECTION 7: DATA COLLECTION *N/A*

1. Sample for the lab? ☐ Yes ☐ No
 2. If yes, collected from: ☐ Flow ☐ Pool

SECTION 8: ANY NON-ILLICIT DISCHARGE CONCERNS (e.g., trash or needed infrastructure repairs)?



OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 1: BACKGROUND DATA

Date: 12/9/24	Time: 2:45 pm		
Investigators: Michael Carr (SFC), Sarah Ganley (AHP), Brickman House (SFC)			
Air Temperature (°F) 48°	Rainfall (in.):	Last 24 hours: 0"	Last 48 hours: 0"
Latitude: 35.609026°N	Longitude: 105.985102°W	GPS Unit: ESRI field map	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Open Space		
<input type="checkbox"/> Ultra-Urban Residential	<input type="checkbox"/> Institutional		
<input checked="" type="checkbox"/> Suburban Residential-rural res.	Other: _____		
<input type="checkbox"/> Commercial	Known Industries: _____		
Notes (e.g., origin of outfall, if known): @ Roundabout - College Drive (Future) SE connector - Falcon Way. One Inlet w/ 18" culvert outfall to earthen channel. Plan Set sheet 10-22. Discharges to tributary to Arroyo Honda to north. - Also many curb drainage holes in area.			

SECTION 2: OUTFALL DESCRIPTION

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED	
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> PVC <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> CMP <input type="checkbox"/> HDPE <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 18"	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open Drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> Rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic: <input type="checkbox"/> Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____		
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If No, skip to Section 5)					
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial					

SECTION 3: QUANTITATIVE CHARACTERIZATION N/A

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	--
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	_____ ' _____"	Ft, In	Tape measure
	Measured length	_____ ' _____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Water Temperature			°F	Thermometer
pH			pH Units	Test strip / Probe
Ammonia			mg/L	Test strip
DO			mg/L	
Conductivity			uS/cm	



OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 4: PHYSICAL INDICATORS FOR FLOWING OUTFALLS ONLY

Are Any Physical Indicators Present in the Flow? ☐ Yes ☐ No (If No, skip to Section 5)

INDICATOR	CHECK IF PRESENT	DESCRIPTION	RELATIVE SEVERITY INDEX (1 - 3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables - Does Not Include Trash!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (toilet paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

SECTION 5: PHYSICAL INDICATORS FOR BOTH FLOWING AND NON-FLOWING OUTFALLS

Are Physical Indicators That Are Not Related to Flow Present? ☐ Yes ☒ No (If No, skip to Section 6)

INDICATOR	CHECK IF PRESENT	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	No concerns with discharge. Newly constructed and concerns with erosion at curb drainage locations and roadway (College Dr) termination. Maintenance should inspect and repair.
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor Pool Quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe Benthic Growth (bacteria and algae)	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

SECTION 6: OVERALL OUTFALL CHARACTERIZATION FOR POTENTIAL ILLICIT DISCHARGE CONCERNS

☒ Unlikely ☐ Potential (presence of two or more indicators)
☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

SECTION 7: DATA COLLECTION N/A

1. Sample for the lab? ☐ Yes ☐ No
 2. If yes, collected from: ☐ Flow ☐ Pool

SECTION 8: ANY NON-ILLICIT DISCHARGE CONCERNS (e.g., trash or needed infrastructure repairs)?



OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 1: BACKGROUND DATA

Date: 12/9/24		Time: 2:50 pm	
Investigators: Michael Carr (SFC), Brickman House (SFC), Sarah Ganley (BHI)			
Air Temperature (°F): 48° F	Rainfall (in.): Last 24 hours: 0"	Last 48 hours: 0"	
Latitude: 35.607351° N	Longitude: 105.983818° W	GPS Unit: ESRI field map	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Open Space		
<input type="checkbox"/> Ultra-Urban Residential	<input type="checkbox"/> Institutional		
<input checked="" type="checkbox"/> Suburban Residential-rural resid.	Other: _____		
<input type="checkbox"/> Commercial	Known Industries: _____		
Notes (e.g., origin of outfall, if known): SE Connector-Falcon Way, S. of College Dr. roundabout. 1 Inlet - 36" culvert outfall. Discharges to tributary of Cienega Creek. (Rancho Canada) plan set - sheet 10-21			

SECTION 2: OUTFALL DESCRIPTION

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input checked="" type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 36"	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open Drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> Rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic: <input type="checkbox"/> Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If No, skip to Section 5)				
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

SECTION 3: QUANTITATIVE CHARACTERIZATION N/A

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	--
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Water Temperature			°F	Thermometer
pH			pH Units	Test strip / Probe
Ammonia			mg/L	Test strip
DO			mg/L	
Conductivity			uS/cm	



OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 4: PHYSICAL INDICATORS FOR FLOWING OUTFALLS ONLY

Are Any Physical Indicators Present in the Flow? ☐ Yes ☐ No (If No, skip to Section 5)

INDICATOR	CHECK IF PRESENT	DESCRIPTION	RELATIVE SEVERITY INDEX (1 – 3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Faint	<input type="checkbox"/> 2 – Easily detected	<input type="checkbox"/> 3 – Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Faint colors in sample bottle	<input type="checkbox"/> 2 – Clearly visible in sample bottle	<input type="checkbox"/> 3 – Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 – Slight cloudiness	<input type="checkbox"/> 2 – Cloudy	<input type="checkbox"/> 3 – Opaque
Floatables – Does Not Include Trash!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (toilet paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Few/slight; origin not obvious	<input type="checkbox"/> 2 – Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 – Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

SECTION 5: PHYSICAL INDICATORS FOR BOTH FLOWING AND NON-FLOWING OUTFALLS

Are Physical Indicators That Are Not Related to Flow Present? ☐ Yes ☐ No (If No, skip to Section 6)

INDICATOR	CHECK IF PRESENT	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	Newly constructed, Concerns w/ roadway side slope rilling and sediment in culvert outfall. Maintenance should inspect. No illicit discharge concerns
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor Pool Quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe Benthic Growth (bacteria and algae)	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

SECTION 6: OVERALL OUTFALL CHARACTERIZATION FOR POTENTIAL ILLICIT DISCHARGE CONCERNS

☒ Unlikely ☐ Potential (presence of two or more indicators)
☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

SECTION 7: DATA COLLECTION N/A

1. Sample for the lab? ☐ Yes ☐ No
 2. If yes, collected from: ☐ Flow ☐ Pool

SECTION 8: ANY NON-ILLICIT DISCHARGE CONCERNS (e.g., trash or needed infrastructure repairs)?



OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 1: BACKGROUND DATA

Date: 12/9/24		Time: 3pm	
Investigators: Michael Carr (SFC), Brickman House (SFC), Sarah Ganley (BHE)			
Air Temperature (°F): 48°	Rainfall (in.): Last 24 hours: 0"	Last 48 hours: 0"	
Latitude: 35.605273°N	Longitude: 105.983161°W	GPS Unit: ESRT field map	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Open Space		
<input type="checkbox"/> Ultra-Urban Residential	<input type="checkbox"/> Institutional		
<input checked="" type="checkbox"/> Suburban Residential - rural res.	Other: _____		
<input type="checkbox"/> Commercial	Known Industries: _____		
Notes (e.g., origin of outfall, if known): SE Connector - Falcon Way - Roadway 3 Inlets into Cienega Creek Trib- (SE Connector) Rancho Canada			

SECTION 2: OUTFALL DESCRIPTION

Plan Set sheets 10-17, 18, 19 & 20

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input checked="" type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input checked="" type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 3 inlets - all connect to the 48" culverts under rd.	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open Drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> Rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic: <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If No, skip to Section 5)			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

SECTION 3: QUANTITATIVE CHARACTERIZATION N/A

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	--
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____, ____"	Ft, In	Tape measure
	Measured length	____, ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Water Temperature			°F	Thermometer
pH			pH Units	Test strip / Probe
Ammonia			mg/L	Test strip
DO			mg/L	
Conductivity			uS/cm	



OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 4: PHYSICAL INDICATORS FOR FLOWING OUTFALLS ONLY

Are Any Physical Indicators Present in the Flow? ☐ Yes ☒ No (If No, skip to Section 5) *N/A*

INDICATOR	CHECK IF PRESENT	DESCRIPTION	RELATIVE SEVERITY INDEX (1 – 3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Faint	<input type="checkbox"/> 2 – Easily detected	<input type="checkbox"/> 3 – Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Faint colors in sample bottle	<input type="checkbox"/> 2 – Clearly visible in sample bottle	<input type="checkbox"/> 3 – Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 – Slight cloudiness	<input type="checkbox"/> 2 – Cloudy	<input type="checkbox"/> 3 – Opaque
Floatables – Does Not Include Trash!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (toilet paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Few/slight; origin not obvious	<input type="checkbox"/> 2 – Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 – Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

SECTION 5: PHYSICAL INDICATORS FOR BOTH FLOWING AND NON-FLOWING OUTFALLS

Are Physical Indicators That Are Not Related to Flow Present? ☐ Yes ☐ No (If No, skip to Section 6)

INDICATOR	CHECK IF PRESENT	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	<i>Newly constructed. Inlets look good. Major erosion occurring on SW side of outfall crossing from roadway right. Maintenance should inspect.</i>
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor Pool Quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe Benthic Growth (bacteria and algae)	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

SECTION 6: OVERALL OUTFALL CHARACTERIZATION FOR POTENTIAL ILLICIT DISCHARGE CONCERNS

☒ Unlikely ☐ Potential (presence of two or more indicators)
☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

SECTION 7: DATA COLLECTION *N/A*

1. Sample for the lab? ☐ Yes ☐ No
 2. If yes, collected from: ☐ Flow ☐ Pool

SECTION 8: ANY NON-ILLICIT DISCHARGE CONCERNS (e.g., trash or needed infrastructure repairs)?



OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 1: BACKGROUND DATA

Date: 12/9/24		Time: 3:10pm	
Investigators: Michael Carr (SFC), Brickman House (SFC), Sarah Ganley (BHR)			
Air Temperature (°F): 46°F	Rainfall (in.): Last 24 hours: 0"	Last 48 hours: 0"	
Latitude: 35.602584° N	Longitude: 105.983129° W	GPS Unit: ESRI Field map	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Open Space		
<input type="checkbox"/> Ultra-Urban Residential	<input type="checkbox"/> Institutional		
<input checked="" type="checkbox"/> Suburban Residential - rural res.	Other: _____		
<input type="checkbox"/> Commercial	Known Industries: _____		
Notes (e.g., origin of outfall, if known): SE Connector - Falcon Way. 1 Inlets into 36" culverts under roadway. Unnamed trib - to Rancho Canada to Cienega Creek.			

Plan sets - sheets 10-13 & 10-14

SECTION 2: OUTFALL DESCRIPTION

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input checked="" type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 24" from inlet to 36" culvert under road	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open Drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> Rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic: <input type="checkbox"/> Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If No, skip to Section 5)				
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

SECTION 3: QUANTITATIVE CHARACTERIZATION N/A

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	--
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Water Temperature			°F	Thermometer
pH			pH Units	Test strip / Probe
Ammonia			mg/L	Test strip
DO			mg/L	
Conductivity			uS/cm	



OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 4: PHYSICAL INDICATORS FOR FLOWING OUTFALLS ONLY

Are Any Physical Indicators Present in the Flow? ☐ Yes ☐ No (If No, skip to Section 5) N/A

INDICATOR	CHECK IF PRESENT	DESCRIPTION	RELATIVE SEVERITY INDEX (1 – 3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Faint	<input type="checkbox"/> 2 – Easily detected	<input type="checkbox"/> 3 – Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Faint colors in sample bottle	<input type="checkbox"/> 2 – Clearly visible in sample bottle	<input type="checkbox"/> 3 – Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 – Slight cloudiness	<input type="checkbox"/> 2 – Cloudy	<input type="checkbox"/> 3 – Opaque
Floatables – Does Not Include Trash!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (toilet paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Few/slight; origin not obvious	<input type="checkbox"/> 2 – Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 – Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

SECTION 5: PHYSICAL INDICATORS FOR BOTH FLOWING AND NON-FLOWING OUTFALLS

Are Physical Indicators That Are Not Related to Flow Present? ☐ Yes ☒ No (If No, skip to Section 6)

INDICATOR	CHECK IF PRESENT	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor Pool Quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe Benthic Growth (bacteria and algae)	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

SECTION 6: OVERALL OUTFALL CHARACTERIZATION FOR POTENTIAL ILLICIT DISCHARGE CONCERNS

☒ Unlikely ☐ Potential (presence of two or more indicators)
☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

SECTION 7: DATA COLLECTION N/A

1. Sample for the lab?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow	<input type="checkbox"/> Pool

SECTION 8: ANY NON-ILLICIT DISCHARGE CONCERNS (e.g., trash or needed infrastructure repairs)?

--



OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 1: BACKGROUND DATA

Date: 12/9/24		Time: 3:15pm	
Investigators: Michael Carr (SFC), Brickman House (SFC), Sarah Gouley (B.H.D.)			
Air Temperature (°F): 46°F	Rainfall (in.): Last 24 hours: 0"	Last 48 hours: 0"	
Latitude: 35.598610° N	Longitude: 105.983132° W	GPS Unit: Esri field map	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Open Space		
<input type="checkbox"/> Ultra-Urban Residential	<input type="checkbox"/> Institutional		
<input checked="" type="checkbox"/> Suburban Residential - rural res.	Other: _____		
<input type="checkbox"/> Commercial	Known Industries: _____		
Notes (e.g., origin of outfall, if known):			
2 curb inlets @ roundabout on SE connector. Connects to 24" culvert. NW side of roundabout with Avenida del Sur.			

Plan set sheet 10-12 - shows 2 curb inlets

SECTION 2: OUTFALL DESCRIPTION

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input checked="" type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 24"	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open Drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> Rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic: <input type="checkbox"/> Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	(inlet of culvert has sediment)
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If No, skip to Section 5)				
Flow Description (if present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

SECTION 3: QUANTITATIVE CHARACTERIZATION N/A

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	--
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Water Temperature			°F	Thermometer
pH			pH Units	Test strip / Probe
Ammonia			mg/L	Test strip
DO			mg/L	
Conductivity			uS/cm	



OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 4: PHYSICAL INDICATORS FOR FLOWING OUTFALLS ONLY

Are Any Physical Indicators Present in the Flow? ☐ Yes ☐ No (If No, skip to Section 5) *N/A*

INDICATOR	CHECK IF PRESENT	DESCRIPTION	RELATIVE SEVERITY INDEX (1 – 3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Faint	<input type="checkbox"/> 2 – Easily detected	<input type="checkbox"/> 3 – Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Faint colors in sample bottle	<input type="checkbox"/> 2 – Clearly visible in sample bottle	<input type="checkbox"/> 3 – Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 – Slight cloudiness	<input type="checkbox"/> 2 – Cloudy	<input type="checkbox"/> 3 – Opaque
Floatables – Does Not Include Trash!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (toilet paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Few/slight; origin not obvious	<input type="checkbox"/> 2 – Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 – Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

SECTION 5: PHYSICAL INDICATORS FOR BOTH FLOWING AND NON-FLOWING OUTFALLS

Are Physical Indicators That Are Not Related to Flow Present? ☐ Yes ☒ No (If No, skip to Section 6)

INDICATOR	CHECK IF PRESENT	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor Pool Quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe Benthic Growth (bacteria and algae)	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

SECTION 6: OVERALL OUTFALL CHARACTERIZATION FOR POTENTIAL ILLICIT DISCHARGE CONCERNS

☒ Unlikely ☐ Potential (presence of two or more indicators)
☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

SECTION 7: DATA COLLECTION *N/A*

1. Sample for the lab? ☐ Yes ☐ No
 2. If yes, collected from: ☐ Flow ☐ Pool

SECTION 8: ANY NON-ILLICIT DISCHARGE CONCERNS (e.g., trash or needed infrastructure repairs)?



OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 1: BACKGROUND DATA

Date: 12/19/24	Time: 3:20pm		
Investigators: Michael Carr (SFC), Brickman House (SFC), Sarah Gantley (BHR)			
Air Temperature (°F): 46°F	Rainfall (in.):	Last 24 hours: 0"	Last 48 hours: 0"
Latitude: 35.599141°N	Longitude: 105.99326°W	GPS Unit: Ersi field maps	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Open Space		
<input type="checkbox"/> Ultra-Urban Residential	<input type="checkbox"/> Institutional		
<input checked="" type="checkbox"/> Suburban Residential - rural res.	Other: _____		
<input type="checkbox"/> Commercial	Known Industries: _____		
Notes (e.g., origin of outfall, if known): Inlets into 6-36" culverts under Avenida del Sur, Avenida			

Plan Set sheet 10-39

SECTION 2: OUTFALL DESCRIPTION

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input checked="" type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input checked="" type="checkbox"/> Other: 6	Diameter/Dimensions: 36"	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open Drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> Rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic: <input type="checkbox"/> Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If No, skip to Section 5)				
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

SECTION 3: QUANTITATIVE CHARACTERIZATION N/A

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	--
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	_____, _____	Ft, In	Tape measure
	Measured length	_____, _____	Ft, In	Tape measure
	Time of travel		S	Stop watch
Water Temperature			°F	Thermometer
pH			pH Units	Test strip / Probe
Ammonia			mg/L	Test strip
DO			mg/L	
Conductivity			uS/cm	



OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 4: PHYSICAL INDICATORS FOR FLOWING OUTFALLS ONLY

Are Any Physical Indicators Present in the Flow? ☐ Yes ☐ No (If No, skip to Section 5) *N/A*

INDICATOR	CHECK IF PRESENT	DESCRIPTION	RELATIVE SEVERITY INDEX (1 – 3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Faint	<input type="checkbox"/> 2 – Easily detected	<input type="checkbox"/> 3 – Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Faint colors in sample bottle	<input type="checkbox"/> 2 – Clearly visible in sample bottle	<input type="checkbox"/> 3 – Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 – Slight cloudiness	<input type="checkbox"/> 2 – Cloudy	<input type="checkbox"/> 3 – Opaque
Floatables – Does Not Include Trash!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (toilet paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Few/slight; origin not obvious	<input type="checkbox"/> 2 – Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 – Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

SECTION 5: PHYSICAL INDICATORS FOR BOTH FLOWING AND NON-FLOWING OUTFALLS

Are Physical Indicators That Are Not Related to Flow Present? ☐ Yes ☒ No (If No, skip to Section 6)

INDICATOR	CHECK IF PRESENT	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	<i>New construction. Some erosion around edges of culvert headwalls. Maintenance should inspect.</i>
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor Pool Quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe Benthic Growth (bacteria and algae)	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

SECTION 6: OVERALL OUTFALL CHARACTERIZATION FOR POTENTIAL ILLICIT DISCHARGE CONCERNS

☒ Unlikely ☐ Potential (presence of two or more indicators)
☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

SECTION 7: DATA COLLECTION *N/A*

1. Sample for the lab? ☐ Yes ☐ No
 2. If yes, collected from: ☐ Flow ☐ Pool

SECTION 8: ANY NON-ILLICIT DISCHARGE CONCERNS (e.g., trash or needed infrastructure repairs)?



OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 1: BACKGROUND DATA

Date: 12/9/24	Time: 3:30
Investigators: Michael Carr (SFC), Brickman House (SFC), Sarah Conley (BHL)	
Air Temperature (°F) 46°F	Rainfall (in.): Last 24 hours: 0" Last 48 hours: 0"
Latitude: 35.598900°N	Longitude: 105.995654°W GPS Unit: Esri field map
Land Use in Drainage Area (Check all that apply):	
<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Open Space
<input type="checkbox"/> Ultra-Urban Residential	<input type="checkbox"/> Institutional
<input checked="" type="checkbox"/> Suburban Residential - rural res.	Other: _____
<input type="checkbox"/> Commercial	Known Industries: _____
Notes (e.g., origin of outfall, if known): Inlets into 1-36" culvert under Avenida del Sur plan set - sheet 10-38	

SECTION 2: OUTFALL DESCRIPTION

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input checked="" type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 36"	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open Drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> Rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic: <input type="checkbox"/> Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If No, skip to Section 5)				
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

SECTION 3: QUANTITATIVE CHARACTERIZATION N/A

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	--
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____, ____"	Ft, In	Tape measure
	Measured length	____, ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Water Temperature			°F	Thermometer
pH			pH Units	Test strip / Probe
Ammonia			mg/L	Test strip
DO			mg/L	
Conductivity			uS/cm	

OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 4: PHYSICAL INDICATORS FOR FLOWING OUTFALLS ONLY

Are Any Physical Indicators Present in the Flow? ☐ Yes ☐ No (If No, skip to Section 5) *N/A*

INDICATOR	CHECK IF PRESENT	DESCRIPTION	RELATIVE SEVERITY INDEX (1 – 3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Faint	<input type="checkbox"/> 2 – Easily detected	<input type="checkbox"/> 3 – Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Faint colors in sample bottle	<input type="checkbox"/> 2 – Clearly visible in sample bottle	<input type="checkbox"/> 3 – Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 – Slight cloudiness	<input type="checkbox"/> 2 – Cloudy	<input type="checkbox"/> 3 – Opaque
Floatables – Does Not Include Trash!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (toilet paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Few/slight; origin not obvious	<input type="checkbox"/> 2 – Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 – Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

SECTION 5: PHYSICAL INDICATORS FOR BOTH FLOWING AND NON-FLOWING OUTFALLS

Are Physical Indicators That Are Not Related to Flow Present? ☐ Yes ☒ No (If No, skip to Section 6) *N/A*

INDICATOR	CHECK IF PRESENT	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor Pool Quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe Benthic Growth (bacteria and algae)	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

SECTION 6: OVERALL OUTFALL CHARACTERIZATION FOR POTENTIAL ILLICIT DISCHARGE CONCERNS

☒ Unlikely ☐ Potential (presence of two or more indicators)
☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

SECTION 7: DATA COLLECTION *N/A*

1. Sample for the lab? ☐ Yes ☐ No
 2. If yes, collected from: ☐ Flow ☐ Pool

SECTION 8: ANY NON-ILLICIT DISCHARGE CONCERNS (e.g., trash or needed infrastructure repairs)?



OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 1: BACKGROUND DATA

Date: 12/9/24 Time: 3:45

Investigators: Michael Carr (SFC), Brickman House (SFC), Sarah Gentry (PHC)

Air Temperature (°F) 46°F Rainfall (in.): Last 24 hours: 0" Last 48 hours: 0"

Latitude: 35.598879°N Longitude: 106.000907°W GPS Unit: ESRI field map

Land Use in Drainage Area (Check all that apply):

☐ Industrial ☒ Open Space

☐ Ultra-Urban Residential ☐ Institutional

☒ Suburban Residential - rural res Other: _____

☐ Commercial Known Industries: _____

Notes (e.g., origin of outfall, if known):

2 inlets - discharge to 4-36" culverts under Avenida del Sur.

Plan set Sheet 10-37

SECTION 2: OUTFALL DESCRIPTION

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input checked="" type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input checked="" type="checkbox"/> Other: 4	Diameter/Dimensions: 36"
<input type="checkbox"/> Open Drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> Rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic: <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If No, skip to Section 5)			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

SECTION 3: QUANTITATIVE CHARACTERIZATION N/A

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	--
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____, ____"	Ft, In	Tape measure
	Measured length	____, ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Water Temperature			°F	Thermometer
pH			pH Units	Test strip / Probe
Ammonia			mg/L	Test strip
DO			mg/L	
Conductivity			uS/cm	

OUTFALL INVENTORY / SAMPLE COLLECTION FIELD SHEET

SECTION 4: PHYSICAL INDICATORS FOR FLOWING OUTFALLS ONLY

Are Any Physical Indicators Present in the Flow? ☐ Yes ☐ No (If No, skip to Section 5) N/A

INDICATOR	CHECK IF PRESENT	DESCRIPTION	RELATIVE SEVERITY INDEX (1 – 3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Faint	<input type="checkbox"/> 2 – Easily detected	<input type="checkbox"/> 3 – Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Faint colors in sample bottle	<input type="checkbox"/> 2 – Clearly visible in sample bottle	<input type="checkbox"/> 3 – Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 – Slight cloudiness	<input type="checkbox"/> 2 – Cloudy	<input type="checkbox"/> 3 – Opaque
Floatables – Does Not Include Trash!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (toilet paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Few/slight; origin not obvious	<input type="checkbox"/> 2 – Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 – Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

SECTION 5: PHYSICAL INDICATORS FOR BOTH FLOWING AND NON-FLOWING OUTFALLS

Are Physical Indicators That Are Not Related to Flow Present? ☐ Yes ☒ No (If No, skip to Section 6)

INDICATOR	CHECK IF PRESENT	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor Pool Quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe Benthic Growth (bacteria and algae)	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

SECTION 6: OVERALL OUTFALL CHARACTERIZATION FOR POTENTIAL ILLICIT DISCHARGE CONCERNS

☒ Unlikely ☐ Potential (presence of two or more indicators)
☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

SECTION 7: DATA COLLECTION N/A

1. Sample for the lab?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow	<input type="checkbox"/> Pool

SECTION 8: ANY NON-ILLICIT DISCHARGE CONCERNS (e.g., trash or needed infrastructure repairs)?