ATTACHMENT B

SYDCOL WASTE TRANSFER FACILITY

FACILITY DESCRIPTION
[40 CFR 270.14]

MARCH 15, 2021

TABLE OF CONTENTS

1 GENERAL DESCRIPTION 1
2 TOPOGRAPHIC MAP 1
3 FACILITY INFORMATION 2
3.1 Location 2
3.2 Seismic and Floodplain Hazards 2
3.3 Drywells 3
3.4 Wind Patterns 3
4 TRAFFIC PATTERNS 3
4.1 Incoming Traffic 3
4.2 Outgoing Traffic 3
4.3 Area Traffic Information 4
4.4 Learning Site Avoidance Areas 4

FIGURES

1. Site Location Map
2. Surrounding Topography
3. Vicinity Hazards Map
4. Floodplain Map
5. Traffic Routes and Avoidance Areas

1 GENERAL DESCRIPTION

This description of the Facility has been prepared in support of the Sydcol RCRA Part B permit application. A list of all acronyms and a definition of key terms used in this description is provided with General Information provided in Appendix A of Attachment A of the RCRA Part B permit application.

The Facility is located at 2264 E. 13th Street in unincorporated Yuma County at the location shown in Figure 1. The site is 4.75 acres of developed property identified by the Yuma County Assessor's office as Parcel Number 666-17-050. Site developments include a main building, an existing concrete storage pad and two planned concrete storage pads to be used as waste management units, four concrete pads for roll-off containers, a water tank for fire suppression, and a perimeter chain-link fence.

The main building is a metal-frame structure with a large storage area including a shipping and receiving loading docks, a laboratory, offices, and an emergency eye wash and shower area. ~~The storage area in the main building will be used to unload hazardous wastes and to access the HWMUs located behind the building~~. A planned concrete pad adjacent and west of the main building is designated HWMU1 and a second planned concrete pad northwest of the main building is designated as HWMU2. A larger existing concrete pad located north of the main building is designated HWMU3. HWMU1 ~~is~~ will be constructed with a metal shade structure to provide shade while checking in hazardous wastes. HWMU1, HWMU2, and HWMU3 are all constructed with containment curbs and are sloped to drain to one side where spills or other releases will collect for removal.

Incoming waste materials are typically transported to the Facility in tankers and/or containers (e.g. 55-gallon drums, totes, roll-off containers, end dumps, etc.) on flat bed or tractor trailers. Incoming traffic enter the Site via a gate located on the south side of the Facility and are directed to a designated receiving area and transferred to HWMU1 for check in.

2 TOPOGRAPHIC MAP

A topographic map of the area within 1,000 feet of the Facility is provided in Figure 2. Regional and site topography indicate a very slight land slope to the north-northwest of 0.17 feet per 100 feet or 8.8 feet per mile.

Note that for the purposes of 40 CFR §270.14(b)(19), there are no 100-year floodplains, surface waters, injection wells, drainage barriers or flood control structures within 1,000 feet of the Facility and therefore none are shown on Figure 2.

3 FACILITY INFORMATION

3.1 Location

The Facility is located at 2264 E. 13th Street in an unincorporated area of Yuma County, Arizona at Latitude 32° 42'18.20 N and Longitude 114 ° 35' 42.26" W. The cadastral location is in the northeast quarter of the northwest quarter of the southwest quarter of Section 26 of Township 8 South, Range 23 West of the Gila and Salt River Base and Meridian, Yuma County, Arizona. The Site's zip code is 85365. The Yuma County Recorder's office identifies the Site as Lot 11 and the east 40.97 feet of Lot 12 or the Gila Acres subdivision.

Based on the Yuma County Zoning Map, the Facility property is currently zoned Heavy Industrial, 1-acre minimum lot size (HI-1). Zoning in the vicinity of the Facility is a mixture of HI, Light Industrial (LI), and Rural Area, 20-acre minimum lot size (RA-20) for the farmland located north of the Facility.

3.2 Seismic and Floodplain Hazards

Yuma County is listed in Appendix VI of 40 CFR Part 264, indicating that compliance with seismic and floodplain location standards in 40 CFR 264.18(a) and (b) must be demonstrated. For seismic considerations, the Facility cannot be located within 200 feet of a geological fault which has had a displacement in Holocene time. The closest known fault to the Facility is the Algodones Fault. The Algodones Fault is oriented in a northwesterly –southeasterly direction south, southeast of Yuma. The Facility is approximately 11 miles north of the north end of the fault. Based on the distance of the Facility from the Algodones Fault, the Facility satisfies the requirement of 40 CFR Section 264.18 (a).

For floodplain considerations, the design, construction, and operation of a facility located within a 100-year floodplain must prevent washout of hazardous waste from the facility. The Facility is located approximately 1 mile from the Colorado River and 0.75 miles from the Yuma Levee, in area with a 0.2 percent change of flooding in any given year, or a 500-year floodplain, as designated by FEMA. Based on the FEMA designation, the Facility is outside the area of a 100-year flood and is exempt from the requirements of 40 CFR Section 264.18(b).

Figure 3 illustrates the location of active faults and flood hazard areas in the broader vicinity of the Facility. The FEMA floodplain map showing the Facility site is not located in a flood hazard area is provided in Figure 4.

3.3 Drywells

There are no drywells located at the Facility.

3.4 Wind Patterns

Wind patterns are generally calm to less than 20 mile per hour sustained wind speeds, with the predominant wind direction from the southeast or the north. Occasional high winds of 19 to 25 mile per hour sustained wind speeds occur, predominantly from the west or the south. A wind rose diagram for Yuma is presented on Figure 2.

4 TRAFFIC PATTERNS

Incoming waste material shipments and outgoing consolidated waste shipments will be transported by vehicular traffic to and from the Facility. Incoming and outgoing traffic will be directed to follow the following routes, as illustrated in Figure 5:

4.1 Incoming Traffic

Incoming waste shipments will be directed to the Facility via a route from Interstate 8 or State Route 95 to Avenue 3E. Traffic traveling eastbound on Interstate 8 will pass through the interstate interchange, crossing the Avenue 3E southbound lane, two left turn lanes for westbound traffic onto Interstate 8, and the Interstate 8 westbound exit ramp lane before reaching the Avenue 3E northbound lane. A traffic signal is at the Interstate 8 on and off ramp intersections with Avenue 3E.

Avenue 3E is an asphalt-paved roadway that has four traffic lanes for a short distance north of Interstate 8 and then merging into a two-lane roadway. Avenue 3E serves as the main arterial roadway to the industrial and agricultural area north of Interstate 8. Traffic will continue northbound on Avenue 3E, passing through a traffic signal at State Route 95 until its intersection with 13th Street, where traffic will turn west crossing one lane of southbound traffic. State Route 95 is a four-lane highway along the alignment of 16th Street in Yuma. Thirteenth Street is an asphalt-paved two-lane roadway. Traffic will continue travelling west on 13th Street to the Facility entrance on the western side of the Facility.

4.2 Outgoing Traffic

Waste shipments leaving the Facility will be directed to exit through the Facility entrance on the south side of the Facility and turn easterly onto 13th Street, crossing the westbound traffic lane. Traffic is to continue on 13th Street until it intersects with Avenue 3E, where traffic will stop at a stop sign and wait for clear traffic. Traffic will then turn onto the southbound

lane of Avenue 3E and continue south. Eastbound shipments can continue to either State Route 95 or Interstate 8; traffic crossing the northbound traffic lane of Avenue 3E at the State Route 95 intersection, which has a traffic signal. Eastbound traffic traveling on Interstate 8 will cross the on-off ramp lane for Interstate 8 westbound traffic and the Avenue 3E northbound lane when clear via the traffic signal. Westbound traffic will continue to the Interstate 8 interchange, crossing the intersection with State Route 95 and turning onto the on ramp for Interstate 8 when clear via the traffic signal. Waste shipments with then continue to their final destination.

4.3 Area Traffic Information

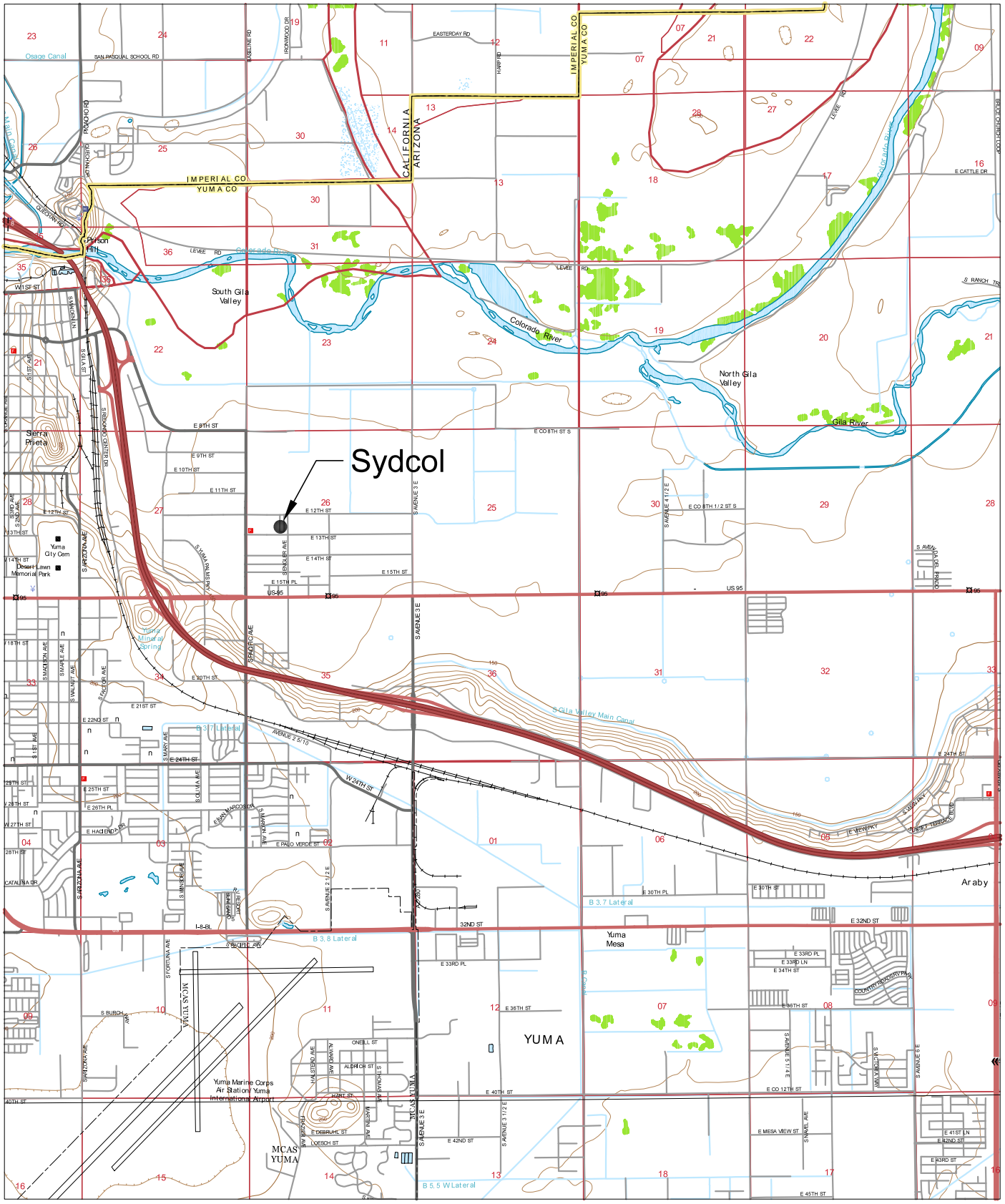
Traffic counts are not available for 13th Street in the vicinity of the facility. Based on the Yuma Metropolitan Planning Organization 2017 July biannual traffic count, East 16th St. (Highway 95) west of South Avenue 3 East had an average annual daily traffic rate of 21,538 vehicles and Highway 95 west of Araby Road had an average annual daily traffic rate of 9,501 vehicles.

The speed limit on 13th Street is not currently posted; however, based on the industrial area, the speed limit defaults to 25 miles per hour (mph). According to the Arizona Department of Transportation, the speed limit on State Route Highway 95 is 45 mph around Avenue 3E. Based on the current zoning and/or uses of the property and its vicinity, streets along the planned route will support the vehicles anticipated to enter and exit the Facility

4.4 Learning Site Avoidance Areas

Two learning sites have been identified within a 2-mile radius of the facility, as shown in the attached Figure 5. These include Harvest Preparatory Academy – Yuma Campus, located approximately 1.76 miles west-southwest of the Facility, and Desert View Academy, 1.95 miles south-southwest of the Facility. In-bound and out-bound transporters of hazardous waste will be notified in advance to avoid routing adjacent to these learning sites by providing them a copy of the route restrictions shown in Figure 5.

FIGURES


Sydcol
IMPERIAL CO
YUMA CO
CALIFORNIA
ARIZONA
Colorado River
Gila River
South Gila Valley
North Gila Valley
Sierra Prieta
Yuma City Cem
Desert Lawn Memorial Park
Yuma Mineral Spring
S Gila Valley Main Canal
B 3.7 Lateral
B 3.8 Lateral
B 5.5 W Lateral
Yuma Mesa
YUMA
Araby
Yuma Marine Corps Air Station/Yuma International Airport
MCAS YUMA
US 95
I-8-BL
E 8TH ST
E 9TH ST
E 10TH ST
E 11TH ST
E 12TH ST
E 13TH ST
E 14TH ST
E 15TH ST
E 20TH ST
E 24TH ST
W 24TH ST
32ND ST
E 40TH ST
E 42ND ST
E 45TH ST
E CO 8TH ST S
E CO 8TH 1/2 ST S
E CO 12TH ST
S AVENUE 3 E
S AVENUE 2 1/2 E
S AVENUE 3 1/2 E
S AVENUE 5 1/2 E
S AVENUE 1 E
S ARIZONA AVE
S MAIN ST
S GILA ST
S FORTUNA AVE
S MARY AVE
S COLMA AVE
S MCKEEN AVE
S MAPLE AVE
S WALNUT AVE
S PACIFIC AVE
S SENDER AVE
S MCLEAN AVE
S MCCAS YUMA
S MCTOWNSEND AVE
S MCTOWNSEND PL
S MCTOWNSEND LN
S MCTOWNSEND WAY
S MCTOWNSEND CT
S MCTOWNSEND TER
S MCTOWNSEND RD
S MCTOWNSEND PKWY
S MCTOWNSEND BLVD

LEGEND

- 139 Elevation Contour
- Property Boundary
- SWMU: Solid Waste Management Unit
- HWMU: Hazardous Waste Management Unit
- Concrete Surface
- Registered Well (Location Approximate)

Figure 2
SURROUNDING TOPOGRAPHY
Sydcol
2264 E. 13th St.,Yuma, AZ 85365

CLIENT:	APPROVED BY: JGP
PROJECT:	PROJECT NO:
DESIGNED BY: JGP	DATE: 11/5/21
DRAWN BY: TML	DWG/FILE: JGP-SYDCOL04
REVISION:	

JGP Consulting, PLC
Environmental Compliance Services

Legend

Active Faults Latest Motion

- Within 10,000 years
- Within 750,000 years
- Within 2.5 million years

Flood Potential

- High

Figure 3

Vicinity Hazards Map

Sydcol

2264 E. 13th St., Yuma, AZ 85365

CLIENT:	APPROVED BY: JGP
PROJECT:	PROJECT NO:
DESIGNED BY: JGP	DATE: 4/16/19
DRAWN BY: TML	DWG/FILE: JGP-SYDCOL06
REVISION:	

JGP Consulting, PLC

Environmental Compliance Services

National Flood Hazard Layer FIRMette

FEMA

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/12/2019 at 4:10:32 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Figure 4

Fema Floodplain Map

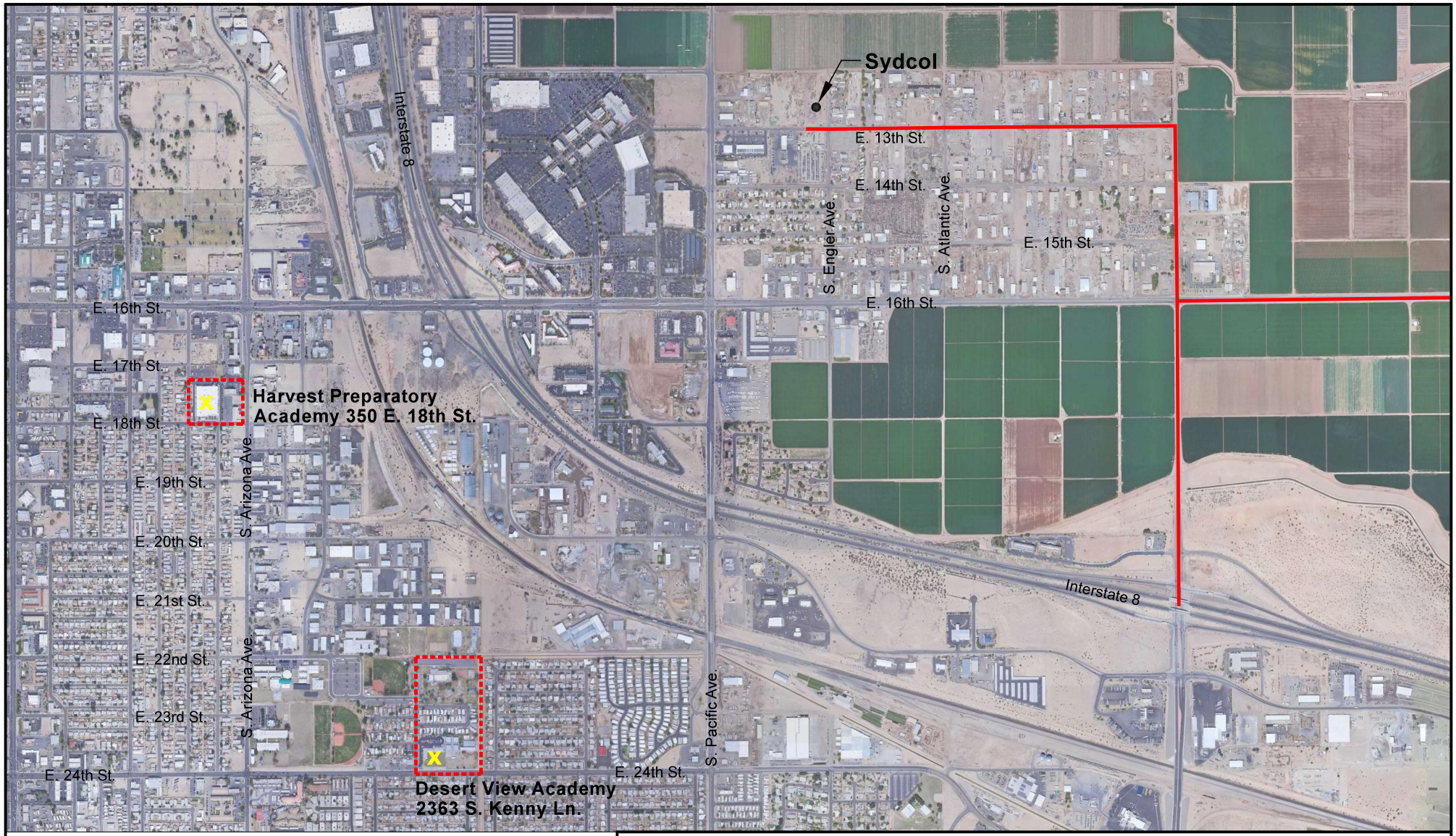
Sydcol

2264 E. 13th St., Yuma, AZ 85365

CLIENT:	APPROVED BY: JGP
PROJECT:	PROJECT NO:
DESIGNED BY: JGP	DATE: 6/14/19
DRAWN BY: TML	DWG/FILE: JGP-SYDCOL07
REVISION:	

JGP Consulting, PLC

Environmental Compliance Services



LEGEND

- X Learning Site
- Traffic Avoidance Area
- Principal Traffic Route

N

SCALE

0 800' 1,600'

SCALE IN FEET

Note:
All Hazardous Waste Transportation Vehicles Must Not Enter the Designated Traffic Avoidance Areas.

Figure 5
Nearby Learning Sites
Sydcol
2264 E. 13th St., Yuma, AZ 85365

CLIENT:	APPROVED BY: JGP
PROJECT:	PROJECT NO:
DESIGNED BY: JGP	DATE: 4/6/20
DRAWN BY: TML	DWG/FILE: JGP-SYDCOL07
REVISION:	

JGP Consulting, PLC

Environmental Compliance Services