

Tijuana River Pilot Channel & Smuggler's Gulch Channel

Attachment 1d – IMP Maintenance Methodology

FACILITY/CHANNEL	SMUGGLER'S GULCH (SG)	TIJUANA RIVER PILOT (PILOT)
DIMENSIONS	3040 FEET (LENGTH) 20 FEET (WIDTH) 15 FEET (DEPTH ¹) (APPROXIMATE) ¹ DEPTH MEASURED FROM BERM TOP	5400 FEET (LENGTH) 23 FEET (WIDTH) 5-7 FEET (DEPTH) (APPROXIMATE)
MAINTENANCE METHOD	MECHANIZED SEDIMENT AND VEGETATION REMOVAL PRE-MAINTENANCE AND AS-NEEDED PUMPING OF PONDED WATER WITHIN THE CHANNEL AREA	
EQUIPMENT (EQUIPMENT WILL BE EQUIVALENT OR SMALLER IN SIZE/TYPE)	<ul style="list-style-type: none"> • BULLDOZER (D9 CAT, D6 CAT, D65 KOMATSU) • EXCAVATORS (50 D JOHN DEER, 349 CAT, 330 65' REACH/320 CAT) • FRONT-END LOADERS (950/966 CAT, KOMATSU WA 380) • BACKHOE (410 JOHN DEER) • DITCH WITCH TRENCHER • SKID STEER (BOBCAT 553) • ROCK TRUCKS (740/725 CAT) • DUMP TRUCKS (10/12 YD) • WATER TRUCK (4,000 GL) • VACTOR (SUPER VAC) • FUEL TRUCK (1,200 GL) • PUMPS (CRITICALLY SILENCED) 	
MAINTENANCE PROCEDURE		
PRECONSTRUCTION MEETING	<p>CONDUCT PRE-MAINTENANCE MEETING ON-SITE PRIOR TO THE START OF ANY MAINTENANCE ACTIVITY THAT OCCURS WITHIN OR ADJACENT TO SENSITIVE BIOLOGICAL/HISTORICAL/WATER QUALITY RESOURCES. THE PRE-MAINTENANCE MEETING SHALL INCLUDE THE QUALIFIED BIOLOGIST, ARCHEOLOGIST, WATER QUALITY SPECIALIST, CITY SWD, MAINTENANCE MANAGER (MM), MITIGATION MONITORING COORDINATOR (MMC), AND MAINTENANCE CONTRACTOR (MC), RESIDENT ENGINEER (RE), FIELD ENGINEER/PLANNER, EQUIPMENT OPERATORS/SUPERINTENDENT AND ANY OTHER KEY PERSONNEL CONDUCTING OR INVOLVED WITH THE CHANNEL MAINTENANCE ACTIVITIES. THE QUALIFIED SPECIALIST SHALL:</p> <ul style="list-style-type: none"> • POINT OUT OR IDENTIFY SENSITIVE BIOLOGICAL/HISTORICAL/WATER QUALITY RESOURCES TO BE AVOIDED DURING MAINTENANCE; • FLAG/DELINEATE SENSITIVE RESOURCES TO BE AVOIDED; • REVIEW SPECIFIC MEASURES TO BE IMPLEMENTED TO MINIMIZE DIRECT/INDIRECT IMPACTS; AND • DIRECT CREWS OR OTHER PERSONNEL TO PROTECT SENSITIVE RESOURCES AS NECESSARY. 	
TRAINING	CONDUCT TRAINING FOR PERSONNEL RESPONSIBLE FOR THE PROPER INSTALLATION, INSPECTION, AND MAINTENANCE OF ON-SITE BMPS.	

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<p>PRE-MAINTENANCE AND (POTENTIAL) DURING-MAINTENANCE PUMPING</p>	<p>COORDINATE WITH QUALIFIED BIOLOGIST TO DETERMINE LEAST-SENSITIVE PUMP INSTALLATION LOCATIONS. ENSURE NOISE ATTENUATION, IF NEEDED, BETWEEN THE PUMP AND SENSITIVE BIOLOGICAL RESOURCES.</p> <p>INSTALL CRITICALLY-SILENCED PUMP ADJACENT TO PONDED WATER PRESENT IN EASTERN PORTION OF PILOT CHANNEL. PUMP PONDED WATER WESTWARD THROUGH TEMPORARY HOSE(S) TO LOCATION(S) DOWNSTREAM AND AT THE WESTERN LIMIT OF THE PROJECT. DISCHARGE PUMPED WATER WITHIN CHANNEL ALLOWING FOR DISTRIBUTED DISCHARGE AND INFILTRATION.</p> <p>IF NEEDED, CONTINUE PUMPING ACTIVITIES DURING MAINTENANCE TO TRANSPORT PONDED WATER FROM WORK AREA TO DOWNSTREAM PORTION OF PILOT CHANNEL.</p>
<p>BMP INSTALLATION</p>	<p>INSTALL SEDIMENT/EROSION CONTROL BMPS (E.G. SHAKER PLATES, VISQUEEN, SILT/CONSTRUCTION FENCING, FIBER ROLLS) AT STOCKPILE/STAGING AREAS B ACCORDING TO PROJECT WATER POLLUTION CONTROL PLAN (WPCP). THE SAME WILL APPLY TO STAGING AREA D, IF UTILIZED.</p> <p>INSTALL CONSTRUCTION ENTRANCE/EXIT AT STAGING AREA B. THE SAME WILL APPLY TO STAGING AREA D, IF UTILIZED.</p> <p>INSTALL SEDIMENT/EROSION CONTROL ALONG ACCESS ROUTES ACCORDING TO WPCP.</p> <p>MOBILIZE EQUIPMENT AT STAGING AREAS B. THE SAME WILL APPLY TO STAGING AREA D, IF UTILIZED.</p> <p>REMOVE VEGETATION FROM AND REINFORCE TEMPORARY ACCESS RAMP AT SG CHANNEL, AS NECESSARY.</p>
<p>BIOLOGY</p>	<p>BIOLOGIST SHALL REVIEW THE PROPOSED EROSION CONTROL METHODS TO CONFIRM THAT THEY POSE NO RISK TO WILDLIFE (E.G., NON-BIODEGRADABLE BLANKETS WHICH MAY ENTANGLE WILDLIFE).</p> <p>BEFORE EACH WORKDAY, QUALIFIED BIOLOGIST MUST SURVEY THE PROJECT FOOTPRINT TO CHECK FOR CLAPPER RAILS.</p> <p>INSTALL 3 TO 5-FOOT TALL EXCLUSIONARY FENCE WITH 2-INCH MESH OPENINGS (E.G. SNOW FENCE) TO PROHIBIT CLAPPER RAILS.</p>
<p>ACCESS</p>	<p>EQUIPMENT ENTERS CHANNELS VIA TEMPORARY ACCESS RAMP AND EXISTING ACCESS ROADS AND TRAILS (SEE SHEET 1 OF THE CONSTRUCTION PLANS).</p>

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<p>METHODOLOGY</p>	<p><u>SG NORTH OF DISNEY BRIDGE AND PILOT CHANNEL WEST OF HOLLISTER BRIDGE:</u></p> <ol style="list-style-type: none"> 1. EQUIPMENT ENTERS SG AT TEMPORARY ACCESS RAMP NORTH OF DISNEY BRIDGE 2. BULLDOZER (D9) PUSHES MATERIAL TO A CENTRAL LOCATION IN CHANNEL 3. EXCAVATOR STATIONED AT CENTRAL LOCATION SCOOPS ACCUMULATED MATERIAL AND LOADS INTO ROCK TRUCK 4. ROCK TRUCK (USING DESIGNATED TURNAROUNDS AND ACCESS ROADS/RAMP) HAULS MATERIAL TO STAGING AREA B <p><u>CULVERTS UNDER DISNEY BRIDGE:</u></p> <ol style="list-style-type: none"> 1. SKID-STEER (BOBCAT) ENTERS SG AT TEMPORARY ACCESS RAMP 2. SKID-STEER PUSHES MATERIAL IN CULVERTS TO EXCAVATOR STATIONED AT ACCESS RAMP 3. EXCAVATOR LOADS ROCK TRUCK/DUMP TRUCK 4. ROCK/DUMP TRUCK HAULS MATERIAL TO STAGING AREA B
	<p><u>SG SOUTH OF DISNEY BRIDGE/NORTH OF MONUMENT:</u></p> <ol style="list-style-type: none"> 1. BULLDOZER ENTERS CHANNEL FROM DESIGNATED ACCESS POINT ALONG ACCESS ROUTE 2. BULLDOZER PUSHES MATERIAL TO CENTRAL LOCATION 3. EXCAVATOR STATIONED ON ACCESS ROAD SCOOPS MATERIAL FROM CENTRAL LOCATION 4. EXCAVATOR LOADS MATERIAL INTO ROCK TRUCK 5. ROCK TRUCK USES EXISTING ACCESS ROADS TO HAUL MATERIAL TO STAGING AREA B <p>NOTE: MAINTENANCE OF THE SOUTHERN PORTION OF SG CHANNEL SHALL BE PERFORMED SUCH THAT IDENTIFIED SENSITIVE RESOURCES ARE AVOIDED. SENSITIVE RESOURCES ARE LOCATED ON THE EARTHEN BERM BETWEEN THE CHANNEL AND STAGING AREA B (SEE SHEET 5 OF THE CONSTRUCTION PLANS).</p> <p><u>CULVERT UNDER MONUMENT ROAD:</u></p> <ol style="list-style-type: none"> 1. VACTOR STATIONED ON MONUMENT RD FLUSHES ACCUMULATED MATERIAL IN CULVERT AND VACUUMS MATERIAL TO BE HAULED TO AN APPROPRIATE DISPOSAL FACILITY
	<p><u>PILOT CHANNEL EAST OF HOLLISTER BRIDGE:</u></p> <ol style="list-style-type: none"> 1. EQUIPMENT WILL USE ACCESS ROAD EAST OF HOLLISTER STREET/SOUTH OF HOLLISTER BRIDGE 2. LONG-REACH EXCAVATOR STATIONED ON PAD ABOVE CHANNEL BANK SCOOPS MATERIAL FROM CHANNEL AND LOADS MATERIAL INTO DUMP TRUCK 3. DUMP TRUCK HAULS MATERIAL TO STAGING AREA D <p>NOTE: PRIOR TO DREDGING, VEGETATION FOR EQUIPMENT PAD AND ACCESS WILL BE TRIMMED/REMOVED FOR EQUIPMENT CLEARANCE; STANDING WATER MUST BE PUMPED OR VACTORED, AS NEEDED.</p>

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<p>STAGING AREAS</p>	<p><u>STAGING AREA B:</u></p> <ol style="list-style-type: none"> 1. ROCK TRUCK TRANSPORTS/DUMPS SPOILS TO STAGING AREA B 2. BULLDOZER MANAGES STOCKPILE 3. LOADER DUMPS MATERIAL INTO DUMP TRUCK 4. DUMP TRUCK HAULS MATERIAL TO APPROPRIATE DISPOSAL FACILITY AND/OR GREENERY OR STAGING AREA D (IF UTILIZED). <p><u>STAGING AREA D:</u></p> <ol style="list-style-type: none"> 1. DUMP TRUCK TRANSPORTS/DUMPS SPOILS TO STAGING AREA D 2. BULLDOZER MANAGES STOCKPILE 3. BACKHOE SEPARATES AND SORTS MATERIAL (WASTE TIRES, VEGETATION, TRASH) FROM STOCKPILE 4. LOADER DUMPS MATERIAL INTO DUMP TRUCK 5. DUMP TRUCKS HAUL TO APPROPRIATE DISPOSAL FACILITY AND/OR GREENERY <p>NOTE: COMPLETE COMPREHENSIVE TRIP LOG MANIFEST IF TRANSPORTING 9 OR MORE WASTE TIRES.</p>
<p>POST-CONSTRUCTION</p>	<p>DEMobilize EQUIPMENT</p> <hr/> <p>REMOVE TEMPORARY CONSTRUCTION BMPS</p>
<p>OTHER NOTES</p>	<p>CONSTRUCT/MAINTAIN ACCESS ROADS AS NECESSARY.</p> <p>TRIM/REMOVE VEGETATION WITHIN CHANNEL FOOTPRINT FOR SURVEY(S), AS NECESSARY.</p> <p>MAINTAIN EXISTING 25' X 30' TURNAROUND ALONG NORTH BANK OF PILOT CHANNEL AND MAINTAIN EXISTING TURNAROUNDS, AS NECESSARY.</p> <p>PERFORM INSPECTION/MAINTENANCE OF GABION ROCK MATTRESS LOCATED NEAR CONFLUENCE OF SG AND PILOT CHANNELS.</p> <p>FUEL EQUIPMENT IN DESIGNATED AREA.</p> <p>PLACE BARRIERS AT TRAIL HEADS AND DISNEY BRIDGE.</p>