



**LEGEND**

	EXISTING GROUND SURFACE		Cr CONCENTRATION <70 ug/L
	GROUNDWATER SURFACE, SHALLOW WELLS (MAY/JUNE, 2020)		Cr CONCENTRATION >70 ug/L
	STRUCTURE		Cr ISOCOINTOUR 70 ug/L
	GROUNDWATER MONITORING WELL		Cr ISOCOINTOUR 100 ug/L
	EXISTING SHEETPILE		Cr ISOCOINTOUR 1,000 ug/L
	WELL RISER		Cr ISOCOINTOUR 10,000 ug/L
	WELL SCREEN		Cr ISOCOINTOUR 100,000 ug/L
	SHALLOW WATER-BEARING ZONE WELL POTENTIOMETRIC HEAD (MAY/JUNE 2018)		Cr ISOCOINTOUR 1,000,000 ug/L
	INTERMEDIATE WATER-BEARING ZONE WELL POTENTIOMETRIC HEAD (MAY/JUNE 2018)		INFERRED Cr ISOCOINTOUR
	DEEP WATER-BEARING ZONE WELL POTENTIOMETRIC HEAD (MAY/JUNE 2018)		
	DIRECTION OF VERTICAL HYDRAULIC GRADIENT (MAY/JUNE 2018)		ESTIMATED HYDRAULIC CONDUCTIVITY LOG FROM HYDRAULIC PROFILE TOOL (HPT), FEET/DAY

**STRATIGRAPHY**

	FILL: FINE TO COARSE SAND WITH SILT AND GRAVEL, MAY INCLUDE VARIOUS MATERIALS ASSOCIATED WITH HISTORICAL FILL SUCH AS CONSTRUCTION SPILLS, DEMOLITION DEBRIS, GARBAGE, INCINERATOR ASH, COAL ASH, SHIP BALLAST, AND INDUSTRIAL WASTE		SAND WITH LENSES OF GRAVEL, SILT, OR CLAY
	DENSE-GRADE AGGREGATE FILL: FINE TO COARSE SAND WITH FINE GRAVEL AND SILT		SILT AND CLAY, WITH LENSES OF INTERBEDDED VERY FINE SAND
	FINE TO MEDIUM SAND WITH LENSES OF SILT, TRACE FINE GRAVEL		BASAL TILL (LOWER FACIES OF RAHWAY TILL) REDDISH-BROWN SILTY CLAYS, SANDY SILTS, AND SILTY SANDS WITH SUBROUND TO SUBANGULAR FINE TO COARSE GRAVEL AND COBBLES, AND OCCASIONAL INTERBEDDED LENSES OF CLAY, SILT, OR FINE SAND. HARD, DENSE, COMPACT, AND TYPICALLY DRY.
	MEADOW MAT, ESTUARINE AND SALT MARSH DEPOSITS		BEDROCK: STOCKTON FORMATION, LOCKATONG FORMATION, OR DIABASE
	SAND AND SILTY SAND WITH LENSES OF GRAVEL, SILT, OR CLAY		AREA WITH VISUAL OBSERVATIONS OF CCPW, CONSISTING OF COPR, GREEN-GRAY MUD, OR FILL MIXED WITH COPR OR GREEN-GRAY MUD
	TRANSITION ZONE: INTERBEDDED FINE TO VERY FINE SAND, SILT, AND CLAY		DENOTES INFERRED STRATIGRAPHIC CONTACT
			FERROBLACK-H AMENDED BACKFILL AREA

- NOTES:**
- ELEVATIONS ARE SHOWN IN FT NAVD88.
  - THE GWQS FOR Cr IS 70 ug/L.
  - DATA PRESENTED ON THIS FIGURE ARE FROM SAMPLES COLLECTED FROM MONITORING WELLS BETWEEN JUNE 15, 2011 AND FEBRUARY 2021, FOR VARIOUS GROUNDWATER PROGRAMS, INCLUDING BUT NOT LIMITED TO: GROUNDWATER RISE (HISTORICAL AND RECENTLY COMPLETED), GROUNDWATER PILOT TESTING AND INTERIM REMEDIAL MEASURES (IRM) ON SITE 114, CAPILLARY RISE GROUNDWATER MONITORING AND SITE-WIDE FERROBLACK-H PERMIT-BY-RULE (PBR) COMPLIANCE MONITORING.
  - DATA FROM SAMPLES COLLECTED FROM HISTORICAL MONITORING WELLS LOCATED IN REMEDIAL AREAS (E.G., SITE 114) ARE SUPERCEDED BY MORE RECENT DATA COLLECTION PROGRAMS THAT WERE IMPLEMENTED AFTER THE COMPLETION OF SOIL REMEDIATION ACTIVITIES.
  - RESULTS PRESENTED ARE FROM THE ANALYSIS OF UNFILTERED GROUNDWATER SAMPLES.
  - CHROMIUM CONCENTRATIONS ARE PRESENTED IN UNITS OF MICROGRAMS PER LITER.

**QUALIFIERS:**

J	RESULT IS AN ESTIMATED VALUE
U	ANALYTE WAS NOT DETECTED ABOVE THE METHOD DETECTION LIMIT OR REPORTING LIMIT

**DEFINITIONS:**

CCPW	CHROMATE CHEMICAL PRODUCTION WASTE
COPR	CHROMITE ORE PROCESSING RESIDUE
Cr	TOTAL CHROMIUM
FT NAVD88	FEET IN NORTH AMERICAN VERTICAL DATUM OF 1988
GWQS	GROUNDWATER QUALITY STANDARD
RI	REMEDIATION INVESTIGATION
ug/L	MICROGRAMS PER LITER



File: \\aecom-sharpoint.com\sites\PPG\Documents\GDS\910\_CAD\20\_SHEETS\DW\Fence\Sheet\2020\_Tech\_Memo\F5-FSP\_Fence\_Diagrams\_A-L\_B-G\_03-2020.dwg