

TABLE 1
ANALYTICAL RESULTS FOR METALS IN SOIL
 Crescent Mills Industrial Site
 Crescent Mills, California

Sample Location	Sample Depth (ft bgs)	Sample Type	Duplicate Sample	Sample Date	Metals (U.S. EPA 6010B/7471A/6020) (mg/kg) (a)(b)																		
					Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	
SMR-1	0-0.5	Discrete		10/9/2017	<2	6.8	120	<1	<1	14	--	7.9	93	14	0.18	<1	8.4	<1	<0.12	<1	35	43	
SMR-2	0-0.5	Discrete		10/9/2017	<2	2.4	60	<1	<1	24	--	7.1	52	4.8	<0.10	<1	13	<1	<0.12	<1	34	33	
SLS-3	0-0.5	Discrete		10/9/2017	<2	4.3	85	<1	<1	11	--	5	64	9.7	0.2	<1	6.7	<1	<0.12	<1	25	38	
SMR-4	0-0.5	Discrete		10/9/2017	<2	5.4	71	<1	<1	12	--	8.3	62	19	0.18	<1	10	<1	<0.12	<1	27	41	
SMR-5	0-0.5	Discrete		10/9/2017	<2	7.8	69	<1	<1	13	--	8.1	84	10	0.18	<1	11	<1	<0.12	<1	31	41	
SLDRP-6	0-0.5	Discrete		10/9/2017	<2	4.3	110	<1	<1	21	--	9.7	190	12	0.23	<1	15	<1	<0.12	<1	46	90	
SMR-7	0-0.5	Discrete		10/9/2017	<2	8.1	94	<1	<1	14	--	10	160	10	0.16	<1	11	<1	<0.12	<1	37	57	
SMR-8	0-0.5	Discrete		10/9/2017	<2	13	90	<1	<1	12	--	8.4	170	6.6	<0.10	<1	11	<1	<0.12	<1	29	43	
SMR-9	0-0.5	Discrete		10/9/2017	<2	5.8	110	<1	<1	14	--	10	340	9.3	0.26	<1	14	<1	<0.12	<1	32	65	
SMR-10	0-0.5	Discrete		10/9/2017	<2	4.3	56	<1	<1	8.7	--	6.9	67	4.3	<0.10	<1	5.8	<1	<0.12	<1	27	38	
SP5-S11	0-0.5	Discrete		10/9/2017	<2	9.1	70	<1	<1	9.6	--	6	95	19	0.43	<1	6.5	<1	<0.12	<1	24	38	
SMR-12	0-0.5	Discrete	X	10/9/2017	<2	7.7	65	<1	<1	13	--	8	88	9.8	0.2	<1	11	<1	<0.12	<1	32	42	
DU-1	0-0.5	ISM		2/8/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
DU-2	0-0.5	ISM		2/8/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
DU-3	0-0.5	ISM		2/8/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
DU-4	0-0.5	ISM		2/7/2017	<0.19	13 J-	19	0.079	0.085	4	--	1.6	14	3.3	0.073	<0.15	2.7	<0.28	<0.018	<0.17	8.8	16	
DU-5	0-0.5	ISM		2/7/2017	<0.93	19	86	0.37	0.18 J	19	--	7.6	47	22	0.11	<0.75	14	<1.4	<0.50	<0.83	34	86	
DU-6	0-0.5	ISM		2/7/2017	--	--	--	--	0.42	15	--	--	--	62	--	--	13	--	--	--	--	180	
DU-7	0-0.5	ISM		2/7/2017	--	--	--	--	0.20	21	--	--	--	25 J+	--	--	12	--	--	--	--	81	
DU-8	0-0.5	ISM		2/9/2017	<0.94	6.9	57	0.34	0.084 J	19	--	6.9	51	12	0.018 J	<0.75	17	<1.4	<0.50	<0.84	45	51	
DU-9	0-0.5	ISM		2/9/2017	<0.93	28	64	0.38	0.18 J	17	--	8.3	41	23	0.17	<0.75	15	<1.4	<0.50	<0.83	32	75	
DU-11	0-0.5	ISM		2/9/2017	1.5 J	35	71	0.44	0.27	27	--	8.8	38	34	0.18	<0.75	20	<1.4	<0.50	<0.84	35	100	
DU-12	0-0.5	ISM		2/9/2017	<0.93	16	74	0.40	0.20	19	--	9.2	160	34	0.19	<0.74	13	<1.4	<0.50	<0.83	40	89	
DU-13	0-0.5	ISM		2/9/2017	<0.94	22	69	0.28	0.11 J	12	--	7.7	200	31	0.36	<0.75	11	<1.4	<0.50	<0.84	31	60	
DU-14	0-0.5	ISM		2/9/2017	<0.93	5.1	54	0.30	<0.03	6.1	--	7.8	79	4.9	0.017 J	<0.74	4.6	<1.4	<0.089	<0.83	41	48	
DU-15	1-5	ISM		2/9/2017	1.1 J	7.2	95	0.34	0.045 J	15	--	6	86	19	0.33	<0.75	8.4	<1.4	<0.50	<0.84	35	42	
DU-16	1-3	ISM		2/9/2017	<0.93	9.9	130	0.47	0.060 J	18	--	8.7	240	9.5	0.28	<0.75	11	<1.4	<0.50	<0.83	53	76	
DU-17	1-3	ISM		2/9/2017	<0.93	11	120	0.47	0.057 J	18	--	9.3	490	8.3	0.38	<0.74	11	<1.4	<0.49	<0.83	53	62	
DU-18	0.5-1	ISM		2/9/2017	<0.93	9.8	120	0.35	0.087 J	15	--	7	99	16	0.35	<0.74	9.1	<1.4	<0.49	<0.83	37	50	
DU-19	1-5	ISM		2/9/2017	<0.93	9.2	130	0.43	0.091 J	20	--	8.3	110	19	0.22	0.81 J	13	1.4 UJ	<0.50	0.83 J	46	56	
DU-20	1-3	ISM		2/9/2017	<0.94	9.1	140	0.41	0.10 J	19	--	8.4	110	18	0.33	<0.75	11	<1.4	<0.50	<0.84	43	100	
DU-21	1-3	ISM		2/9/2017	<0.94	25	140	0.50	0.12 J	18	--	8.9	140	52	2.1	<0.75	12	<1.4	<0.50	<0.84	46	72	
SB-2	0.5-1	Discrete		2/8/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	0.5-1	Discrete	X	2/8/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-3	2-4	Discrete		2/8/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-5	1-3	Discrete		2/6/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-6	3-5	Discrete		2/6/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-11	0.5-1	Discrete		2/7/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-12	4-5	Discrete		2/7/2017	<0.3	1.3	260	0.18 J	<0.28	1.2	<0.56	3.8	10	1.4	<0.0094	<0.56	0.78 J	0.46 J	<0.11	<0.28	16	21	
SB-13	1-3	Discrete		2/6/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-14	1-4	Discrete		2/8/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	1-4	Discrete	X	2/8/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-15	2-5	Discrete		2/6/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Commercial/Industrial DTSC-SL (c)					--	-- (h)	--	210	7.3	--	--	--	--	320	4.5	--	--	--	1,500	--	1,000	--	
Industrial RSL (d)					470	-- (h)	220,000	--	--	1,800,000	6.3	350	47,000	--	--	5,800	--	5,800	--	12	--	350,000	
Estimated Maintenance Worker DTSC-SL (e)					3,540	-- (h)	76,000	180	41	13,000,000	4.8	49	350,000	--	110	44,000	1,700	44,000	44,000	89	12,000	2,700,000	
Construction Worker ESL (f)					140	-- (h)	3,000	42	43	530,000	2.8	28	14,000	160	44	1,800	86	1,700	1,800	3.5	470	110,000	
Arsenic Background (g)					--	9.8 (0-3 ft bgs) 4.7 (>3 ft bgs)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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 Crescent Mills, California

Sample Location	Sample Depth (ft bgs)	Sample Type	Duplicate Sample	Sample Date	Metals (U.S. EPA 6010B/7471A/6020) (mg/kg) (a)(b)																	
					Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
LP-B01	0	Discrete		8/27/2014	--	23	--	--	0.39 J	40	--	--	--	52	--	--	20	--	--	--	--	150
	2	Discrete		8/27/2014	--	9.9 J	--	--	<0.56	16 J	--	--	--	16 J	--	--	6.3 J	--	--	--	--	88 J
	2	Discrete	X	8/27/2014	--	56 J	--	--	0.61	8.4 J	--	--	--	74 J	--	--	17 J	--	--	--	--	180 J
	4	Discrete		8/27/2014	--	7	--	--	<0.55	21	--	--	--	8.2	--	--	6.9	--	--	--	--	61
	6	Discrete		8/27/2014	--	6.9	--	--	<0.57	17	--	--	--	5.8	--	--	6.1	--	--	--	--	43
LP-B02	0	Discrete		8/27/2014	--	5.9	--	--	<0.53	9.1	--	--	--	5.4	--	--	7.1	--	--	--	--	64
	2	Discrete		8/27/2014	--	8.3	--	--	<0.54	40	--	--	--	3.7 J	--	--	18	--	--	--	--	45
	4	Discrete		8/27/2014	--	5.9	--	--	<0.51	45	--	--	--	8.2	--	--	34	--	--	--	--	56
	6	Discrete		8/27/2014	--	44	--	--	0.36 J	8.9	--	--	--	67 J	--	--	9.7	--	--	--	--	190
LP-SC01	0.5	5-point composite		8/27/2014	--	15 J	--	--	--	--	--	--	--	15 J	--	--	--	--	--	--	--	--
	0.5	5-point composite	X	8/27/2014	--	25 J	--	--	--	--	--	--	--	35 J	--	--	--	--	--	--	--	--
LP-SC02	0.5	5-point composite		8/26/2014	--	65	--	--	--	--	--	--	--	26	--	--	--	--	--	--	--	--
LP-SC03	0.5	5-point composite		8/26/2014	--	130	--	--	--	--	--	--	--	11	--	--	--	--	--	--	--	--
LP-SC04	0.5	5-point composite		8/26/2014	--	6.9	--	--	--	--	--	--	--	7.3	--	--	--	--	--	--	--	--
LP-SPC01	1-2	5-point composite		8/26/2014	--	13	--	--	--	--	--	--	--	9.4	--	--	--	--	--	--	--	--
LP-SPC02	1-2	5-point composite		8/26/2014	--	18	--	--	--	--	--	--	--	13	--	--	--	--	--	--	--	--
LP-SPC03	1-2	5-point composite		8/26/2014	--	9.7	--	--	--	--	--	--	--	14	--	--	--	--	--	--	--	--
LP-SPC04	1-2	5-point composite		8/26/2014	--	26	--	--	--	--	--	--	--	29	--	--	--	--	--	--	--	--
DP4	4	Discrete		12/13/2002	ND	ND	73	ND	0.75	18	--	7.9	13	1.8	0.0475	ND	6.9	ND	ND	ND	34	32
HA3	0	Discrete		12/13/2002	ND	ND	52	ND	0.99	21	--	6.4	42	114	0.0647	ND	12	ND	ND	ND	20	344
	3	Discrete		12/13/2002	ND	ND	92	ND	ND	16	--	8.8	15	3.8	0.0735	ND	6.4	ND	ND	ND	29	76
Commercial/Industrial DTSC-SL (c)					--	-- (h)	--	210	7.3	--	--	--	--	320	4.5	--	--	--	1,500	--	1,000	--
Industrial RSL (d)					470	-- (h)	220,000	--	--	1,800,000	6.3	350	47,000	--	--	5,800	--	5,800	--	12	--	350,000
Estimated Maintenance Worker DTSC-SL (e)					3,540	-- (h)	76,000	180	41	13,000,000	4.8	49	350,000	--	110	44,000	1,700	44,000	44,000	89	12,000	2,700,000
Construction Worker ESL (f)					140	-- (h)	3,000	42	43	530,000	2.8	28	14,000	160	44	1,800	86	1,700	1,800	3.5	470	110,000
Arsenic Background (g)					--	9.8 (0-3 ft bgs) 4.7 (>3 ft bgs)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Abbreviations:

"--" = not analyzed/not applicable
 <0.3 = not detected above the stated laboratory reporting limit
Gray and Bold = analyte reported above screening level
 DTSC = Department of Toxic Substances Control
 DTSC-SL = DTSC Screening Level
 ESL = RWQCB Environmental Screening Level
 ft bgs = feet below ground surface
 HERO = Office of Human and Ecological Risk
 ISM = Incremental Sampling Methodology composite sample

J = analyte positively identified; approximate concentration reported
 J- = analyte positively identified; approximate concentration with negative bias reported
 J+ = analyte positively identified; approximate concentration with positive bias reported
 mg/kg = milligrams per kilogram
 ND = non-detect; method detection limit not reported
 RSL = U.S. EPA Regional Screening Level
 RWQCB = Regional Water Quality Control Board
 U.S. EPA = United States Environmental Protection Agency

Notes:

- (a) Data collected in previous investigations were not confirmed with lab reports or validated.
- (b) Metals analyzed by U.S. EPA method 6010B, with the exception of mercury, which was analyzed using U.S. EPA Method 7471A, and arsenic, which was analyzed by U.S. EPA Method 6020.
- (c) DTSC Screening Levels (DTSC-SLs; Note 3 - DTSC HERO (2018)) for commercial/industrial soil. DTSC-SLs applied when available.
- (d) U.S. EPA Region 9 (2018) Regional Screening Levels (RSLs) for industrial soil. RSL shown and applied only when DTSC-SL was not available.
- (e) The screening levels for maintenance workers were estimated using U.S. EPA's online RSL calculator for outdoor workers and exposure assumptions discussed in the text. The toxicity data for chemicals listed in DTSC's *Human Health Risk Assessment Note 3* (DTSC HERO, 2018) were used as needed.
- (f) RWQCB (2016) Environmental Screening Levels (ESLs) for soil for construction workers.
- (g) Based on site-specific background concentrations for arsenic established using ISM sampling in fill (0-3 ft bgs) and native material (>3 ft bgs). Background concentration >3 ft bgs only applies to native materials, therefore 0-3 ft bgs screening level compared to soil stockpile data that was >3 ft bgs (Geosyntec, 2017).
- (h) The screening level for arsenic is not shown because it is below the established background concentrations for the site.

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Crescent Mills Industrial Site
Crescent Mills, California

References:

DTSC HERO, 2018. *Human Heath Risk Assessment Note 3*, June 2018.

Geosyntec, 2017. *Targeted Site Investigation Report, Crescent Mills Industrial Site, 15690 California Highway 89, Crescent Mills, CA*, Geosyntec Consultants, Inc., April 2017.

U.S. EPA, 2018. *Regional Screening Levels (RSLs) - Generic Tables*, May 2018.

RWQCB, 2016. *Environmental Screening Levels (ESLs)*, February 2016, Revision 3.

**TABLE 2
ANALYTICAL RESULTS FOR PAHs, TPH, AND VOCs IN SOIL**

Crescent Mills Industrial Site
Crescent Mills, California

Sample Location	Sample Depth (ft bgs)	Sample Type	Duplicate Sample	Sample Date	PAHs U.S. EPA Method 8270C (mg/kg) (a)		TPH U.S. EPA Method 8015M (mg/kg) (a)				VOCs U.S. EPA Method 8260B (mg/kg) (a)								
					Benzo(a)pyrene	Other PAHs	TPHd with SGC	TPHd without SGC	TPHmo with SGC	TPHmo without SGC	TPHhg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Acetone	2-Butanone	Other VOCs
SMR-1	0-0.5	Discrete		10/9/2017	<0.01	ND	--	<1	--	154	--	--	--	--	--	--	--	--	--
SMR-2	0-0.5	Discrete		10/9/2017	-	ND	--	<1	--	68.4	--	--	--	--	--	--	--	--	--
SLS-3	0-0.5	Discrete		10/9/2017	<0.01	ND	--	<1	--	151	--	--	--	--	--	--	--	--	--
SMR-4	0-0.5	Discrete		10/9/2017	-	ND	--	<1	--	40.6	--	--	--	--	--	--	--	--	--
SMR-5	0-0.5	Discrete		10/9/2017	<0.005	ND	--	<1	--	25.3	--	--	--	--	--	--	--	--	--
SLDRP-6	0-0.5	Discrete		10/9/2017	-	ND	--	<1	--	47.1	--	--	--	--	--	--	--	--	--
SMR-7	0-0.5	Discrete		10/9/2017	<0.005	ND	--	<1	--	32.5	--	--	--	--	--	--	--	--	--
SMR-8	0-0.5	Discrete		10/9/2017	-	ND	--	<1	--	56.6	--	--	--	--	--	--	--	--	--
SMR-9	0-0.5	Discrete		10/9/2017	<0.005	ND	--	<1	--	78.5	--	--	--	--	--	--	--	--	--
SMR-10	0-0.5	Discrete		10/9/2017	-	ND	--	<1	--	19.1	--	--	--	--	--	--	--	--	--
SP5-S11	0-0.5	Discrete		10/9/2017	<0.01	ND	--	<1	--	596	--	--	--	--	--	--	--	--	--
SMR-12	0-0.5	Discrete	X	10/9/2017	-	ND	--	<1	--	30	--	--	--	--	--	--	--	--	--
DU-1	0-0.5	ISM		2/8/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DU-2	0-0.5	ISM		2/8/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DU-3	0-0.5	ISM		2/8/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DU-4	0-0.5	ISM		2/7/2017	<5.3	ND	340	390	1,300	1,500	--	--	--	--	--	--	--	--	--
DU-5	0-0.5	ISM		2/7/2017	<11	ND	580	470	1,400	1,300	--	--	--	--	--	--	--	--	--
DU-6	0-0.5	ISM		2/7/2017	<1	ND	190	180	500	530	--	--	--	--	--	--	--	--	--
DU-7	0-0.5	ISM		2/7/2017	<0.55	ND	67	67	180	190	--	--	--	--	--	--	--	--	--
DU-8	0-0.5	ISM		2/9/2017	<9.2	ND	1,600	1,600	3,900	4,700	--	--	--	--	--	--	--	--	--
DU-9	0-0.5	ISM		2/9/2017	<4.7	ND	510	400	1,300	1,300	--	--	--	--	--	--	--	--	--
DU-11	0-0.5	ISM		2/9/2017	<4.7	ND	380	400	1,000	1,200	--	--	--	--	--	--	--	--	--
DU-12	0-0.5	ISM		2/9/2017	<4.7	ND	370	450	980	1,300	--	--	--	--	--	--	--	--	--
DU-13	0-0.5	ISM		2/9/2017	<4.6	ND	270	290	680	770	--	--	--	--	--	--	--	--	--
DU-14	0-0.5	ISM		2/9/2017	<0.47	ND	21	23	74	88	--	--	--	--	--	--	--	--	--
DU-15	1-5	ISM		2/9/2017	<0.5	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
DU-16	1-3	ISM		2/9/2017	<0.49	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
DU-17	1-3	ISM		2/9/2017	<0.48	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
DU-18	0.5-1	ISM		2/9/2017	<5	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
DU-19	1-5	ISM		2/9/2017	<4.9	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
DU-20	1-3	ISM		2/9/2017	<1	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
DU-21	1-3	ISM		2/9/2017	<0.094	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-2	0.5-1	Discrete		2/8/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	0.5-1	Discrete	X	2/8/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-3	2-4	Discrete		2/8/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-5	1-3	Discrete		2/6/2017	<0.1	ND	1.4	1.2	<3.9	<3.9	--	--	--	--	--	--	--	--	--
SB-6	3-5	Discrete		2/6/2017	<0.098	ND	1.1	0.75 J	<4	<4	--	--	--	--	--	--	--	--	--
SB-11	0.5-1	Discrete		2/7/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-12	4-5	Discrete		2/7/2017	--	--	<1.2	<0.58	<4.3	<4.3	--	--	--	--	--	--	--	--	--
SB-13	1-3	Discrete		2/6/2017	<0.11	ND	<1.1	0.60 J	<4.3	4.6 J	--	--	--	--	--	--	--	--	--
Commercial/Industrial DTSC-SL (b)					2.1	--	--	--	--	--	--	1.4	47,000	25	2,500	210	67,000	190,000	--
Industrial RSL (c)					0.29	--	1,100	1,100	140,000	140,000	3,900	1	4,600	22	2,400	180	630,000	250,000	--
Estimated Maintenance Worker DTSC-SL (d)					12	--	22,000	22,000	800,000	800,000	70,000	34	120,000	550	63,000	4,200	6,800,000	3,000,000	--
Construction Worker ESL (e)					1.6	--	880	880	32,000	32,000	2,800	24	4,100	480	2,400	3700	260,000	140,000	--

**TABLE 2
ANALYTICAL RESULTS FOR PAHs, TPH, AND VOCs IN SOIL**

Crescent Mills Industrial Site
Crescent Mills, California

Sample Location	Sample Depth (ft bgs)	Sample Type	Duplicate Sample	Sample Date	PAHs U.S. EPA Method 8270C (mg/kg) (a)		TPH U.S. EPA Method 8015M (mg/kg) (a)				VOCs U.S. EPA Method 8260B (mg/kg) (a)								
					Benzo(a)pyrene	Other PAHs	TPHd with SGC	TPHd without SGC	TPHmo with SGC	TPHmo without SGC	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Acetone	2-Butanone	Other VOCs
SB-14	1-4	Discrete		2/8/2017	<0.11	ND	1.1	<1.1	<4.3	<4.3	--	--	--	--	--	--	--	--	--
	1-4	Discrete	X	2/8/2017	<0.11	ND	1.9	1.7	<4.5	4.8 J	--	--	--	--	--	--	--	--	--
SB-15	2-5	Discrete		2/6/2017	<0.11	ND	7.6 J	7.7 J	22 J	24 J	--	--	--	--	--	--	--	--	--
SB-16	0.5-1	Discrete		3/22/2017	<4.1	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-17	0.5-1	Discrete		3/22/2017	<2.2	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-18	0.5-1	Discrete		3/22/2017	<2.1	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-19	0.5-1	Discrete		3/22/2017	<1.8	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-20	0.5-1	Discrete		3/22/2017	<2.2	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
LP-B01	0	Discrete		8/27/2014	--	--	--	170	--	1,200	--	--	--	--	--	--	--	--	--
	2	Discrete		8/27/2014	--	--	--	22 J	--	100 J	<3.8	<0.0028	<0.0028	<0.0028	ND	--	--	--	--
	2	Discrete	X	8/27/2014	--	--	--	91 J	--	490 J	<4.1	<0.0024	<0.0024	<0.0024	ND	--	--	--	--
	4	Discrete		8/27/2014	--	--	--	4.2 J	--	19 J	<2.5	<0.0025	<0.0025	<0.0025	ND	--	--	--	--
LP-B02	0	Discrete		8/27/2014	--	--	--	<5.3	--	<21	--	--	--	--	--	--	--	--	--
	2	Discrete		8/27/2014	--	--	--	<5.4	--	<22	<4.3	0.0039	0.0027	<0.0027	ND	--	--	--	--
	4	Discrete		8/27/2014	--	--	--	9	--	36	<3	<0.0024	<0.0024	<0.0024	ND	--	--	--	--
	6	Discrete		8/27/2014	--	--	--	11	--	54	<2.2	<0.0024	<0.0024	<0.0024	ND	--	--	--	--
LP-B03	0	Discrete		8/27/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2	Discrete		8/27/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2	Discrete	X	8/27/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4	Discrete		8/27/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LP-SC01	0.5	5-point composite		8/27/2014	--	--	--	640 J	--	2,700 J	--	--	--	--	--	--	--	--	--
	0.5	5-point composite	X	8/27/2014	--	--	--	650 J	--	2,500 J	--	--	--	--	--	--	--	--	--
LP-SC02	0.5	5-point composite		8/26/2014	--	--	--	62	--	460	--	--	--	--	--	--	--	--	--
LP-SC03	0.5	5-point composite		8/26/2014	--	--	--	66	--	560	--	--	--	--	--	--	--	--	--
LP-SC04	0.5	5-point composite		8/26/2014	--	--	--	140	--	690	--	--	--	--	--	--	--	--	--
LP-SPC01	1-2	5-point composite		8/26/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LP-SPC02	1-2	5-point composite		8/26/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LP-SPC03	1-2	5-point composite		8/26/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LP-SPC04	1-2	5-point composite		8/26/2014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DP1	0	Discrete		12/13/2002	--	--	--	<1	--	<10	<1	<0.005	<0.005	<0.005	ND	<0.005	--	--	--
	6	Discrete		12/13/2002	--	--	--	<1	--	<10	<1	<0.005	<0.005	<0.005	ND	<0.005	--	--	--
DP2	0	Discrete		12/13/2002	--	--	--	<1	--	<10	<1	<0.005	<0.005	<0.005	ND	<0.005	--	--	--
	10	Discrete		12/13/2002	--	--	--	<1	--	<10	<1	<0.005	<0.005	<0.005	ND	<0.005	--	--	--
DP3	0	Discrete		12/13/2002	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6	Discrete		12/13/2002	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DP4	4	Discrete		12/13/2002	--	--	--	<1	--	<10	<1	<0.005	<0.005	<0.005	ND	<0.005	45	9.9	--
DP5	0	Discrete		12/13/2002	--	--	--	<1	--	<10	<1	<0.005	<0.005	<0.005	ND	<0.005	--	--	--
	6	Discrete		12/13/2002	--	--	--	<1	--	<10	<1	<0.005	<0.005	<0.005	ND	<0.005	--	--	--
Commercial/Industrial DTSC-SL (b)					2.1	--	--	--	--	--	--	1.4	47,000	25	2,500	210	67,000	190,000	--
Industrial RSL (c)					0.29	--	1,100	1,100	140,000	140,000	3,900	1	4,600	22	2,400	180	630,000	250,000	--
Estimated Maintenance Worker DTSC-SL (d)					12	--	22,000	22,000	800,000	800,000	70,000	34	120,000	550	63,000	4,200	6,800,000	3,000,000	--
Construction Worker ESL (e)					1.6	--	880	880	32,000	32,000	2,800	24	4,100	480	2,400	3,700	260,000	140,000	--

**TABLE 2
ANALYTICAL RESULTS FOR PAHs, TPH, AND VOCs IN SOIL**

Crescent Mills Industrial Site
Crescent Mills, California

Sample Location	Sample Depth (ft bgs)	Sample Type	Duplicate Sample	Sample Date	PAHs U.S. EPA Method 8270C (mg/kg) (a)		TPH U.S. EPA Method 8015M (mg/kg) (a)				VOCs U.S. EPA Method 8260B (mg/kg) (a)								
					Benzo(a)pyrene	Other PAHs	TPHd with SGC	TPHd without SGC	TPHmo with SGC	TPHmo without SGC	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Acetone	2-Butanone	Other VOCs
HA1	0	Discrete		12/13/2002	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3	Discrete		12/13/2002	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HA3	0	Discrete		12/13/2002	--	--	--	<1	--	550	<1	<0.005	<0.005	<0.005	ND	<0.005	--	--	ND
	3	Discrete		12/13/2002	--	--	--	<1	--	<10	<1	<0.005	<0.005	<0.005	ND	<0.005	--	--	ND
HA5	0	Discrete		12/13/2002	--	--	--	<1	--	<10	<1	<0.005	<0.005	<0.005	ND	<0.005	--	--	--
HA6	0	Discrete		12/13/2002	--	--	--	<1	--	<10	<1	<0.005	<0.005	<0.005	ND	<0.005	--	--	--
	3	Discrete		12/13/2002	--	--	--	<1	--	<10	<1	<0.005	<0.005	<0.005	ND	<0.005	--	--	--
Commercial/Industrial DTSC-SL (b)					2.1	--	--	--	--	--	--	1.4	47,000	25	2,500	210	67,000	190,000	--
Industrial RSL (c)					0.29	--	1,100	1,100	140,000	140,000	3,900	1	4,600	22	2,400	180	630,000	250,000	--
Estimated Maintenance Worker DTSC-SL (d)					12	--	22,000	22,000	800,000	800,000	70,000	34	120,000	550	63,000	4,200	6,800,000	3,000,000	--
Construction Worker ESL (e)					1.6	--	880	880	32,000	32,000	2,800	24	4,100	480	2,400	3700	260,000	140,000	--

Abbreviations:

-- = not analyzed/not applicable

<1 = not detected above the stated laboratory reporting limit

Gray and Bold = Analyte reported above screening level

Gray and Italicized = Analyte not reported above MDL; which was elevated due to matrix interference

DTSC = Department of Toxic Substances Control

DTSC-SL = DTSC Screening Level

ESL = RWQCB Environmental Screening Level

ft bgs = feet below ground surface

HERO = Office of Human and Ecological Risk

ISM = Incremental Sampling Methodology composite sample

J = Analyte was positively identified; approximate concentration reported

MDL = method detection limit

mg/kg = milligrams per kilogram

MTBE = methyl tert-butyl ether

ND = non-detect; method detection limit not reported

PAHs = polycyclic aromatic hydrocarbons

SGC = Silica Gel Cleanup

RSL = U.S. EPA Regional Screening Level

RWQCB = Regional Water Quality Control Board

TPHg, d, mo = total petroleum hydrocarbons in the gasoline, diesel, and motor oil ranges

U.S. EPA = United States Environmental Protection Agency

VOCs = volatile organic compounds

Notes:

(a) Data collected in previous investigations were not confirmed with lab reports or validated.

(b) DTSC Screening Levels (DTSC-SLs; Note 3 - DTSC HERO (2018)) for commercial/industrial soil. DTSC-SLs applied when available.

(c) U.S. EPA Region 9 (2018) Regional Screening Levels (RSLs) for industrial soil. RSL shown and applied only when DTSC-SL was not available.

Values shown for TPHg, TPHd, and TPHmo are based on the RWQCB (2016) Environmental Screening Levels (ESLs) for soil for commercial/industrial workers.

(d) The screening levels for maintenance workers were estimated using U.S. EPA's online RSL calculator for outdoor workers and exposure assumptions discussed in the text.

The toxicity data for chemicals listed in DTSC's *Human Health Risk Assessment Note 3* (DTSC HERO, 2018) were used as needed.

Values shown for TPHg, TPHd, and TPHmo are based on the RWQCB (2016) Environmental Screening Levels (ESLs) for soil for construction workers multiplied by a factor of 25 to match the exposure assumptions of maintenance workers.

(e) RWQCB (2016) Environmental Screening Levels (ESLs) for soil for construction workers.

References:

DTSC HERO, 2018. *Human Health Risk Assessment Note 3*, June 2018.

Geosyntec, 2017. *Targeted Site Investigation Report, Crescent Mills Industrial Site, 15690 California Highway 89, Crescent Mills, CA*, Geosyntec Consultants, Inc., April 2017.

U.S. EPA, 2018. *Regional Screening Levels (RSLs) - Generic Tables*, May 2018.

RWQCB, 2016. *Environmental Screening Levels (ESLs)*, February 2016, Revision 3.

**TABLE 3
ANALYTICAL RESULTS FOR ANTI-STAIN AGENTS AND PCBs IN SOIL**

Crescent Mills Industrial Site
Crescent Mills, California

Sample Location	Sample Depth (ft bgs)	Sample Type	Duplicate Sample	Sample Date	Carbamates	SVOCS			PCBs	
					U.S. EPA Method 8321A (mg/kg) (a)	U.S. EPA Method 8270C (mg/kg) (a)			U.S. EPA Method 8082 (mg/kg) (a)	
					Carbamates	2,4,6-Trichlorophenol	Pentachlorophenol	Phenols	PCB-1260	Other PCBs
SMR-1	0-0.5	Discrete		10/9/2017	--	<0.66	<3.3	--	--	--
SMR-2	0-0.5	Discrete		10/9/2017	--	-	-	--	--	--
SLS-3	0-0.5	Discrete		10/9/2017	--	<0.66	<3.3	--	--	--
SMR-4	0-0.5	Discrete		10/9/2017	--	-	-	--	--	--
SMR-5	0-0.5	Discrete		10/9/2017	--	<0.33	<1.6	--	--	--
SLDRP-6	0-0.5	Discrete		10/9/2017	--	-	-	--	--	--
SMR-7	0-0.5	Discrete		10/9/2017	--	<0.33	<1.6	--	--	--
SMR-8	0-0.5	Discrete		10/9/2017	--	--	--	--	--	--
SMR-9	0-0.5	Discrete		10/9/2017	--	<0.33	<1.6	--	--	--
SMR-10	0-0.5	Discrete		10/9/2017	--	--	--	--	--	--
SP5-S11	0-0.5	Discrete		10/9/2017	--	<0.66	<3.3	--	--	--
SMR-12	0-0.5	Discrete	X	10/9/2017	--	--	--	--	--	--
DU-1	0-0.5	ISM		2/8/2017	ND	<9.8	<6	--	--	--
DU-2	0-0.5	ISM		2/8/2017	ND	<4.7	<2.9	--	--	--
DU-3	0-0.5	ISM		2/8/2017	ND	<5.3	<3.2	--	--	--
DU-4	0-0.5	ISM		2/7/2017	--	--	--	--	--	--
DU-5	0-0.5	ISM		2/7/2017	--	--	--	--	--	--
DU-6	0-0.5	ISM		2/7/2017	--	--	--	--	--	--
DU-7	0-0.5	ISM		2/7/2017	--	--	--	--	--	--
DU-8	0-0.5	ISM		2/9/2017	--	--	--	--	--	--
DU-9	0-0.5	ISM		2/9/2017	--	--	--	--	--	--
DU-11	0-0.5	ISM		2/9/2017	--	--	--	--	--	--
DU-12	0-0.5	ISM		2/9/2017	--	--	--	--	--	--
DU-13	0-0.5	ISM		2/9/2017	--	--	--	--	--	--
Commercial/Industrial DTSC-SL (b)					--	--	--	--	--	--
Industrial RSL (c)					--	210	4	250,000	0.99	--
Estimated Maintenance Worker DTSC-SL (d)					--	1,200	20	1,400,000	5.6	--
Construction Worker ESL (e)					--	350	20	98,000	5.6	--

**TABLE 3
ANALYTICAL RESULTS FOR ANTI-STAIN AGENTS AND PCBs IN SOIL**

Crescent Mills Industrial Site
Crescent Mills, California

Sample Location	Sample Depth (ft bgs)	Sample Type	Duplicate Sample	Sample Date	Carbamates	SVOCS			PCBs	
					U.S. EPA Method 8321A (mg/kg) (a)	U.S. EPA Method 8270C (mg/kg) (a)			U.S. EPA Method 8082 (mg/kg) (a)	
					Carbamates	2,4,6-Trichlorophenol	Pentachlorophenol	Phenols	PCB-1260	Other PCBs
DU-14	0-0.5	ISM		2/9/2017	--	--	--	--	--	--
DU-15	1-5	ISM		2/9/2017	ND	<0.45	<0.27	--	--	--
DU-16	1-3	ISM		2/9/2017	ND	<0.44	<0.27	--	--	--
DU-17	1-3	ISM		2/9/2017	ND	<0.43	<0.26	--	--	--
DU-18	0.5-1	ISM		2/9/2017	ND	<4.5	<2.7	--	--	--
DU-19	1-5	ISM		2/9/2017	ND	<4.3	<2.6	--	--	--
DU-20	1-3	ISM		2/9/2017	ND	<0.9	<0.54	--	--	--
DU-21	1-3	ISM		2/9/2017	ND	<0.084	<0.051	--	--	--
SB-2	0.5-1	Discrete		2/8/2017	--	--	--	--	<0.0033	ND
	0.5-1	Discrete	X	2/8/2017	--	--	--	--	<0.0033	ND
SB-3	2-4	Discrete		2/8/2017	ND	<0.098	<0.06	--	--	--
SB-5	1-3	Discrete		2/6/2017	--	--	--	--	--	--
SB-6	3-5	Discrete		2/6/2017	--	--	--	--	--	--
SB-11	0.5-1	Discrete		2/7/2017	--	--	--	--	0.0075 J	ND
SB-12	4-5	Discrete		2/7/2017	--	--	--	--	--	--
SB-13	1-3	Discrete		2/6/2017	--	--	--	--	--	--
SB-14	1-4	Discrete		2/8/2017	ND	<0.094	<0.057	--	--	--
	1-4	Discrete	X	2/8/2017	ND	<0.095	<0.058	--	--	--
SB-15	2-5	Discrete		2/6/2017	--	--	--	--	--	--
LP-B01	0	Discrete		8/27/2014	--	--	--	--	--	--
	2	Discrete		8/27/2014	--	--	--	--	--	--
	2	Discrete	X	8/27/2014	--	--	--	--	--	--
	4	Discrete		8/27/2014	--	--	--	--	--	--
	6	Discrete		8/27/2014	--	--	--	--	--	--
Commercial/Industrial DTSC-SL (b)					--	--	--	--	--	--
Industrial RSL (c)					--	210	4	250,000	0.99	--
Estimated Maintenance Worker DTSC-SL (d)					--	1,200	20	1,400,000	5.6	--
Construction Worker ESL (e)					--	350	20	98,000	5.6	--

**TABLE 3
ANALYTICAL RESULTS FOR ANTI-STAIN AGENTS AND PCBs IN SOIL**

Crescent Mills Industrial Site
Crescent Mills, California

Sample Location	Sample Depth (ft bgs)	Sample Type	Duplicate Sample	Sample Date	Carbamates	SVOCS			PCBs	
					U.S. EPA Method 8321A (mg/kg) (a)	U.S. EPA Method 8270C (mg/kg) (a)			U.S. EPA Method 8082 (mg/kg) (a)	
					Carbamates	2,4,6-Trichlorophenol	Pentachlorophenol	Phenols	PCB-1260	Other PCBs
LP-B02	0	Discrete		8/27/2014	--	--	--	--	--	--
	2	Discrete		8/27/2014	--	--	--	--	--	--
	4	Discrete		8/27/2014	--	--	--	--	--	--
	6	Discrete		8/27/2014	--	--	--	--	--	--
LP-B03	0	Discrete		8/27/2014	--	--	<0.37	--	--	--
	2	Discrete		8/27/2014	--	--	<0.37	--	--	--
	2	Discrete	X	8/27/2014	--	--	<0.37	--	--	--
	4	Discrete		8/27/2014	--	--	<0.38	--	--	--
	6	Discrete		8/27/2014	--	--	<0.41	--	--	--
LP-SC01	0.5	5-point composite		8/27/2014	--	--	--	--	--	--
	0.5	5-point composite	X	8/27/2014	--	--	--	--	--	--
LP-SC02	0.5	5-point composite		8/26/2014	--	--	--	--	--	--
LP-SC03	0.5	5-point composite		8/26/2014	--	--	--	--	--	--
LP-SC04	0.5	5-point composite		8/26/2014	--	--	--	--	--	--
LP-SPC01	1-2	5-point composite		8/26/2014	--	--	<1	--	--	--
LP-SPC02	1-2	5-point composite		8/26/2014	--	--	<0.9	--	--	--
LP-SPC03	1-2	5-point composite		8/26/2014	--	--	<1.3	--	--	--
LP-SPC04	1-2	5-point composite		8/26/2014	--	--	<2	--	--	--
DP1	0	Discrete		12/13/2002	--	--	--	--	--	--
	6	Discrete		12/13/2002	--	--	--	--	--	--
DP2	0	Discrete		12/13/2002	--	--	--	--	--	--
	10	Discrete		12/13/2002	--	--	--	--	--	--
DP3	0	Discrete		12/13/2002	--	--	--	ND	--	--
	6	Discrete		12/13/2002	--	--	--	ND	--	--
DP4	4	Discrete		12/13/2002	--	--	--	ND	--	--
Commercial/Industrial DTSC-SL (b)					--	--	--	--	--	--
Industrial RSL (c)					--	210	4	250,000	0.99	--
Estimated Maintenance Worker DTSC-SL (d)					--	1,200	20	1,400,000	5.6	--
Construction Worker ESL (e)					--	350	20	98,000	5.6	--

**TABLE 3
ANALYTICAL RESULTS FOR ANTI-STAIN AGENTS AND PCBs IN SOIL**

Crescent Mills Industrial Site
Crescent Mills, California

Sample Location	Sample Depth (ft bgs)	Sample Type	Duplicate Sample	Sample Date	Carbamates	SVOCS			PCBs	
					U.S. EPA Method 8321A (mg/kg) (a)	U.S. EPA Method 8270C (mg/kg) (a)			U.S. EPA Method 8082 (mg/kg) (a)	
					Carbamates	2,4,6-Trichlorophenol	Pentachlorophenol	Phenols	PCB-1260	Other PCBs
DP5	0	Discrete		12/13/2002	--	--	--	--	--	--
	6	Discrete		12/13/2002	--	--	--	--	--	--
HA1	0	Discrete		12/13/2002	--	--	--	ND	--	--
	3	Discrete		12/13/2002	--	--	--	ND	--	--
HA3	0	Discrete		12/13/2002	--	--	--	--	--	--
	3	Discrete		12/13/2002	--	--	--	--	--	--
HA5	0	Discrete		12/13/2002	--	--	--	--	--	--
HA6	0	Discrete		12/13/2002	--	--	--	--	--	--
	3	Discrete		12/13/2002	--	--	--	--	--	--
Commercial/Industrial DTSC-SL (b)					--	--	--	--	--	--
Industrial RSL (c)					--	210	4	250,000	0.99	--
Estimated Maintenance Worker DTSC-SL (d)					--	1,200	20	1,400,000	5.6	--
Construction Worker ESL (e)					--	350	20	98,000	5.6	--

Abbreviations:

"--" = not analyzed/not applicable

<3.3 = not detected above the stated laboratory reporting limit

Gray and Bold = Analyte reported above screening level

Gray and Italicized = Analyte not reported above MDL; which was elevated due to matrix interference

DTSC = Department of Toxic Substances Control

DTSC-SL = DTSC Screening Level

ESL = RWQCB Environmental Screening Level

ft bgs = feet below ground surface

HERO = Office of Human and Ecological Risk

ISM = Incremental Sampling Methodology composite sample

J = Analyte was positively identified; approximate concentration reported

MDL = method detection limit

mg/kg = milligrams per kilogram

ND = non-detect; method detection limit not reported

PCBs = polychlorinated biphenyls

RSL = U.S. EPA Regional Screening Level

RWQCB = Regional Water Quality Control Board

U.S. EPA = United States Environmental Protection Agency

TABLE 3
ANALYTICAL RESULTS FOR ANTI-STAIN AGENTS AND PCBs IN SOIL

Crescent Mills Industrial Site
Crescent Mills, California

Notes:

- (a) Data collected in previous investigations were not confirmed with lab reports or validated.
- (b) DTSC Screening Levels (DTSC-SLs; Note 3 - DTSC HERO (2018)) for commercial/industrial soil. DTSC-SLs applied when available.
- (c) U.S. EPA Region 9 (2018) Regional Screening Levels (RSLs) for industrial soil. RSL shown and applied only when DTSC-SL was not available.
- (d) The screening levels for maintenance workers were estimated using U.S. EPA's online RSL calculator for outdoor workers and exposure assumptions discussed in the text. The toxicity data for chemicals listed in DTSC's *Human Health Risk Assessment Note 3* (DTSC HERO, 2018) were used as needed.
- (e) RWQCB (2016) Environmental Screening Levels (ESLs) for soil for construction workers.

References:

- DTSC HERO, 2018. *Human Health Risk Assessment Note 3*, June 2018.
- Geosyntec, 2017. *Targeted Site Investigation Report, Crescent Mills Industrial Site, 15690 California Highway 89, Crescent Mills, CA*, Geosyntec Consultants, Inc., April 2017.
- U.S. EPA, 2018. *Regional Screening Levels (RSLs) - Generic Tables*, May 2018.
- RWQCB, 2016. *Environmental Screening Levels (ESLs)*, February 2016, Revision 3.

TABLE 4
ANALYTICAL RESULTS FOR DIOXINS AND FURANS IN SOIL
 Crescent Mills Industrial Site
 Crescent Mills, California

Sample Location	Sample Depth (ft bgs)	Sample Type	Duplicate Sample	Sample Date	2,3,7,8-TCDD TEQ (pg/g) (b)	Dioxins and Furans (U.S. EPA Method 8290) (pg/g) (a)																												
						2,3,7,8-TCDD	1,2,3,4,6,7,8-HpCDD	1,2,3,4,6,7,8-HpCDF	1,2,3,4,7,8,9-HpCDF	1,2,3,4,7,8-HxCDD	1,2,3,4,7,8-HxCDF	1,2,3,6,7,8-HxCDD	1,2,3,6,7,8-HxCDF	1,2,3,7,8,9-HxCDD	1,2,3,7,8,9-HxCDF	1,2,3,7,8-PeCDD	1,2,3,7,8-PeCDF	2,3,4,6,7,8-HxCDF	2,3,4,7,8-PeCDF	2,3,7,8-TCDF	OCDD	OCDF	Total HpCDD	Total HpCDF	Total HxCDD	Total HxCDF	Total PeCDD	Total PeCDF	Total TCDD	Total TCDF				
SMR-1	0-0.5	Discrete		10/9/2017	7	1.01	165	27	2.4	0.931	3.56	20.7	2.37	4.08	0.779	0.89	1.46	1.83	2.28	1.43	629	31.6	279	74.3	74.1	103	0.89	71.2	1.01	30.6				
SMR-2	0-0.5	Discrete		10/9/2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
SLS-3	0-0.5	Discrete		10/9/2017	13	1.16	217	48.9	2.31	1.25	5.53	38.4	3.11	5.11	0.563	1.57	2.22	3.8	3.17	2.67	553	33	351	144	98	153	2.91	126	1.16	36.3				
SMR-4	0-0.5	Discrete		10/9/2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
SMR-5	0-0.5	Discrete		10/9/2017	2	0.336	62.9	8.41	1.54	0.696	1.23	6.7	0.486	2.09	0.593	0.636	0.543	0.545	0.692	0.444	272	18.6	109	24.6	28.1	22.6	1.2	18.1	0.336	9.72				
SLDRP-6	0-0.5	Discrete		10/9/2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
SMR-7	0-0.5	Discrete		10/9/2017	2.32	0.965	48.5	10.3	0.948	0.863	0.81	4.46	0.862	2.29	1.21	0.762	0.895	0.851	0.789	0.483	299	21.7	86.7	28.1	20.9	16.5	0.762	11.9	1.92	5.26				
SMR-8	0-0.5	Discrete		10/9/2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
SMR-9	0-0.5	Discrete		10/9/2017	0.77	0.433	23.6	3.8	0.795	0.733	0.699	2.99	0.64	1.64	1.08	0.71	0.534	0.742	0.577	0.466	113	7.51	44.9	9.58	13.6	7	0.71	5.28	0.433	5.37				
SMR-10	0-0.5	Discrete		10/9/2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
SP5-S11	0-0.5	Discrete		10/9/2017	4.2	0.33	112	19.2	1.14	1.12	2.65	17	1.15	4.57	1.59	0.925	0.527	1.16	0.894	0.74	254	15.1	191	51.6	62.1	63.6	0.925	42.1	0.33	21.1				
SMR-12	0-0.5	Discrete	X	10/9/2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
DU-1	0-0.5	ISM		2/8/2017	170	2.2 J	4,300	1,100	49	29	76	630	45	52	5.0 J	17 J	15 J	50	18 J	10	9,900	500	7,000	3,300	1,600	2,600 J	70 J	390	10	49 J				
DU-2	0-0.5	ISM		2/8/2017	1.7 J	0.23 J	26	6	<5	<5	<5	<5	<5	<5	<0.056	0.27 J	0.11 J	0.31 J	0.14 J	<1	95	<10	45	13	11 J	11 J	<5	3.9 J	<1	<1				
DU-3	0-0.5	ISM		2/8/2017	13	<0.22	280	69	2.8 J	2.2 J	4.7 J	39	3.5 J	7.1 J	<0.38	2.2 J	1.4 J	3.6 J	2.2 J	2.5 J	730	<50	430	190	110 J	150 J	6.7 J	37 J	<0.22	7.8 J				
DU-4	0-0.5	ISM		2/7/2017	11	0.72 J	260	29	<5	2.9 J	2.0 J	19	<5	8.7	<0.23	2.8 J	0.62 J	1.2 J	0.82 J	0.85 J	2,000	34	470	87	100	47	15 J	16 J	13 J	13 J				
DU-5	0-0.5	ISM		2/7/2017	19 J	3.2 J	450	58	3.3 J	5.4 J	2.5 J	26	2.2 J	13 J	<0.52	4.7 J	<0.47	2.0 J	<0.48	1.2 J	3,800	85	800	180	140	70 J	25 J	12 J	9.7 J	3.2 J				
DU-6	0-0.5	ISM		2/7/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
DU-7	0-0.5	ISM		2/7/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
DU-8	0-0.5	ISM		2/9/2017	10.3 J	<0.27	240 J	32	<25	<25	<25	<25	<25	<0.35	2.2 J	0.34 J	1.2 J	0.48 J	<5	1,300	<50	430	95	79	45 J	<25	10 J	<5	<5	<5				
DU-9	0-0.5	ISM		2/9/2017	2.7 J	0.34 J	85	12	<0.28	<5	<5	<5	<5	<0.077	0.68 J	0.10 J	0.49 J	0.23 J	<1	720	19	210	34	29 J	19 J	<5	8.9 J	<1	1.4 J	1.4 J				
DU-11	0-0.5	ISM		2/9/2017	7.0	1.4	230	26	<5	<5	<5	11	<5	<0.1	1.1 J	0.27 J	1.1 J	0.52 J	<1	740	34	360	81	52 J	34 J	<5	14	2.1	3.2 J	3.2 J				
DU-12	0-0.5	ISM		2/9/2017	6.4	2.6	83	18	<5	<5	<5	7.4	<5	<0.13	0.96 J	0.21 J	1.1 J	0.64 J	<1	410	23	140	50	33 J	42 J	5.1	24 J	3.3 J	4.9 J	4.9 J				
DU-13	0-0.5	ISM		2/9/2017	57	1.2	1,500	270	10	7.4	17	200	15	31	<1.1	6.2	5.1	14	7	4.7	3,100	120	2,400	700	680	600	26 J	150	6.7 J	23				
DU-14	0-0.5	ISM		2/9/2017	0.89 J	<0.043	9.8	<5	<5	<5	<5	<5	<5	<0.05	0.19 J	<0.032	0.13 J	<0.033	<0.031	68	<10	18	<5	<5	<5	<5	0.43 J	<0.043	<0.031	<0.031				
DU-15	1-5	ISM		2/9/2017	5.9	0.27 J	190	30	<5	<5	<5	17	<5	<0.13	0.47 J	0.58 J	1.3 J	0.80 J	<0.99	720	17	400	80	73 J	61	<5	15	<0.99	3.8 J	3.8 J				
DU-16	1-3	ISM		2/9/2017	25	1.4	630	100	<5	<5	6.1	81	<5	16	<0.37	3.5 J	2.2 J	4.4 J	3.3 J	3.4	1,600	82	1,000	300	300	230	27	52	8.8 J	11 J				
DU-17	1-3	ISM		2/9/2017	7.2	1.4	170	33	<5	<5	<5	17	<5	<0.12	0.95 J	0.64 J	1.3 J	0.90 J	<1	650	42	260	100	51	64 J	<5	16 J	2.0 J	2.6 J	2.6 J				
DU-18	0.5-1	ISM		2/9/2017	5.4	0.59 J	110	23	0.81 J	1.1 J	1.6 J	13	1.1 J	3.4 J	<0.15	0.89 J	0.53 J	0.95 J	0.69 J	0.81 J	370	19	180	62 J	47 J	47 J	3.2 J	11 J	0.94 J	1.9 J				
DU-19	1-5	ISM		2/9/2017	7.5	0.52 J	270	39	<5	<5	<5	20	<5	<0.14	0.58 J	0.54 J	1.6 J	0.80 J	<1	1,200	26	500	110	73	75 J	<5	14 J	<1	1.8	1.8				
DU-20	1-3	ISM		2/9/2017	4.8 J	0.50 J	110	28	<5	<5	<5	15	<5	<0.2	0.67 J	0.49 J	0.95 J	0.55 J	<1	310	20	170	73 J	47 J	48 J	<5	11 J	<1	2.3 J	2.3 J				
DU-21	1-3	ISM		2/9/2017	1.7 J	0.89 J	26	<5	<0.075	<5	<5	<5	<5	<0.049	0.19 J	<0.044	0.21 J	0.13 J	<0.99	79	<9.9	42	13	11 J	9.0 J	<5	2.4 J	1.2 J	<0.99	<0.99				
SB-2	0.5-1	Discrete		2/8/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
SB-2	0.5-1	Discrete	X	2/8/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
SB-3	2-4	Discrete		2/8/2017	0.61 J	<0.014	<5.8	<5.8	<5.8	0.038 J	0.050 J	0.084 J	<0.022	<5.8	0.052 J	<0.019	0.037 J	0.058 J	0.032 J	<0.011	12	<12	<5.8	<5.8	<5.8	<5.8	<0.019	0.070 J	<0.014	<0.011	<0.011			
SB-5	1-3	Discrete		2/6/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
SB-6	3-5	Discrete		2/6/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SB-11	0.5-1	Discrete		2/7/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SB-12	4-5	Discrete		2/7/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SB-13	1-3	Discrete		2/6/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Commercial/Industrial DTSC-SL (c)					200	200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Industrial RSL (d)					22	22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Estimated Maintenance Worker DTSC-SL (e)					150	150	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Construction Worker ESL (f)					150	150	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 4
ANALYTICAL RESULTS FOR DIOXINS AND FURANS IN SOIL
 Crescent Mills Industrial Site
 Crescent Mills, California

Sample Location	Sample Depth (ft bgs)	Sample Type	Duplicate Sample	Sample Date	2,3,7,8-TCDD TEQ (pg/g) (b)	Dioxins and Furans (U.S. EPA Method 8290) (pg/g) (a)																									
						2,3,7,8-TCDD	1,2,3,4,6,7,8-HpCDD	1,2,3,4,6,7,8-HpCDF	1,2,3,4,7,8,9-HpCDF	1,2,3,4,7,8-HxCDD	1,2,3,4,7,8-HxCDF	1,2,3,6,7,8-HxCDD	1,2,3,6,7,8-HxCDF	1,2,3,7,8,9-HxCDD	1,2,3,7,8,9-HxCDF	1,2,3,7,8-PeCDD	1,2,3,7,8-PeCDF	2,3,4,6,7,8-HxCDF	2,3,4,7,8-PeCDF	2,3,7,8-TCDF	OCDD	OCDF	Total HpCDD	Total HpCDF	Total HxCDD	Total HxCDF	Total PeCDD	Total PeCDF	Total TCDD	Total TCDF	
SB-14	1-4	Discrete		2/8/2017	0.91	<0.037	<5.7	<5.7	<5.7	<0.035 J	0.15 J	0.085 J	<0.046 J	<5.7	0.11 J	<0.049	<0.034 J	0.094 J	0.061 J	0.090 J	<11	<11	<5.7	<5.7	<5.7	<5.7	<0.049 J	0.35 J	<0.037	0.60 J	
	1-4	Discrete	X	2/8/2017	0.76 J	<0.028	<5.8	<5.8	<5.8	0.070 J	<0.058 J	0.20 J	<5.8	<5.8	0.086 J	<0.043	0.16 J	0.28 J	0.17 J	0.30 J	<12	<12	<5.8	<5.8	<5.8	<5.8	0.10 J	4.3 J	<0.028	1.9 J	
SB-15	2-5	Discrete		2/6/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
LP-SC01	0.5	5-point composite		8/27/2014	5.99 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	0.5	5-point composite	X	8/27/2014	7.52 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
LP-SC02	0.5	5-point composite		8/26/2014	5.49 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
LP-SC03	0.5	5-point composite		8/26/2014	19.98 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
LP-SC04	0.5	5-point composite		8/26/2014	2.02 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
LP-SPC01	1-2	5-point composite		8/26/2014	9.88 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
LP-SPC02	1-2	5-point composite		8/26/2014	4.89 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
LP-SPC03	1-2	5-point composite		8/26/2014	6.85 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
LP-SPC04	1-2	5-point composite		8/26/2014	3 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Commercial/Industrial DTSC-SL (c)					200	200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Industrial RSL (d)					22	22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Estimated Maintenance Worker DTSC-SL (e)					150	150	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Construction Worker ESL (f)					150	150	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Abbreviations:

"--" = not analyzed/not applicable

<5 = not detected above the stated laboratory reporting limit

Gray and Bold = Analyte reported above screening level

DTSC = Department of Toxic Substances Control

DTSC-SL = DTSC Screening Level

ESL = RWQCB Environmental Screening Level

ft bgs = feet below ground surface

HERO = Office of Human and Ecological Risk

HpCDD = heptachlorodibenzo-p-dioxin

HpCDF = heptachlorodibenzofuran

HxCDD = hexachlorodibenzo-p-dioxin

HxCDF = hexachlorodibenzofuran

ISM = Incremental Sampling Methodology composite sample

J = Analyte was positively identified; approximate concentration reported

OCDD = 1,2,3,4,6,7,8,9-octachlorodibenzodioxin

OCDF = 1,2,3,4,6,7,8,9-octachlorodibenzofuran

PeCDD = pentachlorodibenzo-p-dioxin

PeCDF = pentachlorodibenzofuran

pg/g = picograms per gram

RSL = U.S. EPA Regional Screening Level

RWQCB = Regional Water Quality Control Board

2,3,7,8-TCDD TEQ = 2,3,7,8-tetrachlorodibenzo-p-dioxin Toxic Equivalency

TCDD = tetrachlorodibenzo-p-dioxin

TCDF = tetrachlorodibenzofuran

U.S. EPA = United States Environmental Protection Agency

Notes:

(a) Data collected in previous investigations were not confirmed with lab reports or validated.

(b) Dioxin and Furan toxicity equivalence factors (TEQ) used to calculate dioxin and furan toxicity as 2,3,7,8-TCDD TEQ were not reviewed.

(c) DTSC Screening Levels (DTSC-SLs; Note 3 - DTSC HERO (2018)) for commercial/industrial soil. DTSC-SLs applied when available.

(d) U.S. EPA Region 9 (2018) Regional Screening Levels (RSLs) for industrial soil. RSL shown and applied only when DTSC-SL was not available.

(e) The screening levels for maintenance workers were estimated using U.S. EPA's online RSL calculator for outdoor workers and exposure assumptions discussed in the text.

The toxicity data for chemicals listed in DTSC's *Human Health Risk Assessment Note 3* (DTSC HERO, 2018) were used as needed.

(f) RWQCB (2016) Environmental Screening Levels (ESLs) for soil for construction workers.

References:

DTSC HERO, 2018. *Human Health Risk Assessment Note 3*, June 2018.

Geosyntec, 2017. *Targeted Site Investigation Report, Crescent Mills Industrial Site, 15690 California Highway 89, Crescent Mills, CA*, Geosyntec Consultants, Inc., April 2017.

U.S. EPA, 2018. *Regional Screening Levels (RSLs) - Generic Tables*, May 2018.

RWQCB, 2016. *Environmental Screening Levels (ESLs)*, February 2016, Revision 3.

TABLE 5
ANALYTICAL RESULTS FOR TPHg AND VOCs IN GROUNDWATER
 Crescent Mills Industrial Site
 Crescent Mills, California

Sample Location	Duplicate Sample	Sample Date	U.S. EPA Method 8260B (mg/L) (a)	
			TPHg	VOCs
SB-1		2/8/2017	--	ND
	X	2/8/2017	--	ND
SB-3		2/8/2017	--	--
SB-4		2/7/2017	--	--
	X	2/7/2017	--	--
SB-5		2/6/2017	--	ND
SB-6		2/6/2017	--	ND
SB-7		2/7/2017	--	ND
SB-8		2/7/2017	--	ND
SB-9		2/7/2017	--	ND
SB-10		2/7/2017	--	ND
SB-12		2/7/2017	--	ND
SB-13		2/6/2017	--	--
SB-14		2/8/2017	<15	ND
	X	2/8/2017	<15	--
SB-15		2/6/2017	<15 J	ND
LP-B01		8/27/2014	<50	ND
	X	8/27/2014	<50	ND
LP-B03		8/27/2014	<50	ND
LP-B03	X	8/27/2014	--	--
DP1		12/13/2002	<50	ND
DP2		12/13/2002	<50	ND
DP3		12/13/2002	--	--
DP4		12/13/2002	<50	ND
DP5		12/13/2002	<50	ND
HA3		12/13/2002	<50	ND
HA6		12/13/2002	<50	ND

Abbreviations:

"--" = not analyzed/not applicable
 <50 = not detected above the stated laboratory reporting limit
 J = Analyte was positively identified; approximate concentration reported
 mg/L = milligrams per liter
 ND = non-detect
 TPHg = total petroleum hydrocarbons in the gasoline range
 VOCs = volatile organic compounds

Notes:

(a) Data collected in previous investigations were not confirmed with lab reports or validated.

References:

Geosyntec, 2017. *Targeted Site Investigation Report, Crescent Mills Industrial Site*, 15690 California Highway 89, Crescent Mills, CA, Geosyntec Consultants, Inc., April 2017.

Stiles Mill Brownfields Cleanup
Evaluation of Remedial Alternatives
Alternative 2
Excavation & Off Site Disposal
Cost Estimate

Item No.	Description	Quantities	Units	Unit Price	Cost
1	Mobilization	1	LS	\$75,000	\$75,000
2	Water Pollution Control (BMPs)	1	LS	\$25,000	\$25,000
3	Clearing and Grubbing	1	LS	\$25,000	\$25,000
4	Wood Waste Stockpile Relocation	11,500	CY	\$5.00	\$57,500
5	Concrete and AC Removal & Stockpile	435,600	CY	\$0.75	\$326,700
6	Concrete & AC Reprocessing	2,400	CY	\$20	\$48,000
7	Excavation and Off-Site Disposal	16,000	CY	\$165	\$2,640,000
8	Confirmation Sampling and Analysis	1	LS	\$30,000	\$30,000
9	On-Site Fill Placement	10,000	CY	\$25	\$250,000
10	Import Fill Placement	6,000	CY	\$75	\$450,000
11	Revegetation	1	LS	\$40,000	\$40,000
12	Institutional Controls	1	LS	\$20,000	\$20,000
				Subtotal	\$3,987,200
				Construction Management	\$398,720
				Total	\$4,385,920

Stiles Mill Brownfields Cleanup
Evaluation of Remedial Alternatives
Alternative 3
Slope Grading, On Site Placement & Cover
Cost Estimate

Item No.	Description	Quantities	Units	Unit Price	Cost
1	Mobilization	1	LS	\$60,000	\$60,000
2	Water Pollution Control (BMPs)	1	LS	\$25,000	\$25,000
3	Clearing and Grubbing	1	LS	\$15,000	\$15,000
4	Wood Waste Stockplie Relocation	11,500	CY	\$5.00	\$57,500
5	Surface Preparation Concrete & AC Removal	435,600	SF	\$0.75	\$326,700
6	Concrete & AC Reprocessing	2,400	CY	\$20	\$48,000
7	On-Site Fill Excavation and Fill Placement	10,000	CY	\$25	\$250,000
8	Clean Utility Corridor	1,000	LF	\$10	\$10,000
9	Import Fill Placement	6,000	CY	\$75	\$450,000
10	Reprocessed Concrete Fill Placement	2,400	CY	\$20	\$48,000
11	Finish Grade Drainage and Erosion Control	1	LS	\$40,000	\$40,000
12	Revegetation	1	LS	\$20,000	\$20,000
13	Institutional Controls	1	LS	\$20,000	\$20,000
				Subtotal	\$1,370,200
				Construction Management	\$137,020

Stiles Mill Brownfields Cleanup
Evaluation of Remedial Alternatives
Alternative 4
Management Approach
Cost Estimate

No.	Description	Quantities	Units	Unit Price	Cost
1	Mobilization/Demobilization	1	LS	\$40,000	\$40,000
2	Water Pollution Control (BMPs)	1	LS	\$15,000	\$15,000
3	Clearing and Grubbing	1	LS	\$10,000	\$10,000
4	Wood Waste Stockpile Relocation	11,500	CY	\$5.00	\$57,500
5	Surface Preparation Concrete & AC Removal	217,800	SF	\$0.75	\$163,350
6	Concrete & AC Reprocessing	800	CY	\$20	\$16,000
7	On-Site Fill Excavation and Fill Placement	12,800	CY	\$25	\$320,000
8	Clean Utility Corridor	1,000	LF	\$10	\$10,000
9	Reprocessed Concrete Fill Placement	800	CY	\$20	\$16,000
10	Finish Grade Drainage and Erosion Control	1	LS	\$10,000	\$10,000
11	Revegetation	1	LS	\$35,000	\$35,000
12	Institutional Controls	1	LS	\$25,000	\$25,000
				Subtotal	\$717,850
				Construction Management	\$71,785