

Wickham, Jerry, Env. Health

From: Green, James [JGreen@haleyaldrich.com]
Sent: Tuesday, April 22, 2014 12:55 PM
To: Wickham, Jerry, Env. Health
Subject: FW: Backfilling at Hanson Site
Attachments: 2014_0418 AOC 3-Backfilling.pdf; Hanson_AOC3_Sample Tables.pdf

Hi Jerry,

I'm forwarding you this notification about the backfilling the excavation associated with the UST in AOC-3 at the USL Pleasanton (Hanson) site. This excavation was merged with another (larger) excavation that was located nearby.

Please contact me with any questions you may have.

Jim Green

From: Tilotta, Vincent
Sent: Friday, April 18, 2014 3:04 PM
To: jrigter@lpfire.org
Cc: Bajsarowicz, Voytek; Green, James
Subject: Backfilling at Hanson Site

Hi John,

You may be pleased to know that we have finally completed all remedial excavations of all known contaminated soil in AOCs 2 through 9 at the Hanson site, including the UST excavation. We anticipate backfilling the UST excavation Wednesday or Thursday of next week. Attached to this email is a figure showing the completed AOC 3 excavations along with the clean sample locations. Also attached are the data tables for the sidewall and bottom soil samples collected in AOC 3. Lab results will be made available to you upon request. A final report will be sent to you after backfilling has been completed.

Please feel free to contact either me or Jim Green if you have any questions or require additional information, or if you would like to be notified when the backfill is about to take place.

Regards,

Vince Tilotta

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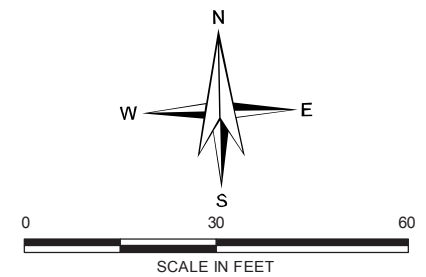


LEGEND

- CONFIRMATION SAMPLE LOCATION (BELOW ACTION LEVEL CRITERIA)
- ══ FORMER TRANSITE PIPE
- EXCAVATION READY TO BACKFILL
- FEATURE FOOTPRINT
- - - CHANGE IN EXCAVATION DEPTH
- ▨ EXCAVATION READY TO BACKFILL 3 ft bgs
- ▩ EXCAVATION READY TO BACKFILL 4 ft bgs
- ▧ EXCAVATION READY TO BACKFILL 5 ft bgs
- ▦ EXCAVATION READY TO BACKFILL 8 ft bgs
- ▤ EXCAVATION READY TO BACKFILL 10 ft bgs

NOTES:

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE
2. FINAL EXCAVATION EXTENTS AND SAMPLE CONCENTRATIONS ARE SHOWN
3. ALL CONCENTRATIONS ARE IN MG/KG (MILLIGRAMS PER KILOGRAM)
4. ONLY DETECTED ANALYTES ARE PRESENTED
5. **BOLDED** WHERE EXCEEDS CRITERIA
6. ACTION LEVELS:
 TPH (C10-C28) DRO : 100 MG/KG
 TPH (C24-C36) MOTOR OIL : 500 MG/KG
 NAPHTHALENE : 1.2 MG/KG
7. AERIAL PHOTO : PICOMETRY, OCT 2009



HALEY & ALDRICH FORMER HANSON AGGREGATES RADUM FACILITY
3000 BUSCH ROAD
PLEASANTON, CALIFORNIA

**AREA OF CONCERN #3
EXCAVATION AND
FEATURES OF INTEREST**

SCALE: AS SHOWN
April 2014

FIGURE 1

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CA

Location	Sample Name	Sample Date	Sample Type	Sample Depth (feet bgs)	Total Petroleum Hydrocarbons (mg/Kg)			
					Total Petroleum Hydrocarbons (C10-C28) DRO	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	Total Petroleum Hydrocarbons-Stoddard Solvent	Total Petroleum Hydrocarbons (C5-C12) GRO
3-TR1	3-TR1-S1(5.0)	07/08/2013	Sidewall	5	1.4	< 50	< 0.99	-
	3-TR1-S2(5.0)	07/08/2013	Sidewall	5	5.1	< 49	< 0.98	-
	3-TR1-S3(5.0)	07/08/2013	Sidewall	5	1.2	< 50	< 0.99	-
	3-TR1-S4(5.0)	07/08/2013	Sidewall	5	1.3	< 49	< 0.98	-
	3-TR1-S5(5.0)	07/08/2013	Sidewall	5	2.1	< 50	< 1.0	-
	3-TR1-S6(5.0)	07/08/2013	Sidewall	5	1.8	< 49	< 0.99	-
3-TR2	3-TR2-B4(5.0)	40/08/2013	Bottom	5	930	< 500	98	-
	3-TR2-B5	11/01/2013	Bottom	10	4.0	< 49	< 0.99	-
	3-TR2-B6	11/01/2013	Bottom	10	< 0.99	< 50	< 0.99	-
	3-TR2-B7	11/01/2013	Bottom	10	72	< 49	3.6	-
	3-TR2-S1(5.0)	07/08/2013	Sidewall	5	4.7	< 49	< 0.99	-
	3-TR2-S2(5.0)	07/08/2013	Sidewall	5	1.8	< 50	< 1.0	-
	3-TR2-S5(3.5)	07/08/2013	Sidewall	3.5	2800	< 2500	180	-
	3-TR3-S7(3.0)	40/08/2013	Sidewall	3	140	< 50	22	5.9
	3-TR3-S8(4.0)	40/08/2013	Sidewall	4	6100	< 2500	600	20
	3-TR3-S9(4.0)	10/08/2013	Sidewall	4	5.1	< 50	< 1.0	< 0.23
	3-TR3-S10(4.5)	40/08/2013	Sidewall	4.5	850	< 490	68	2.1
	3-TR2-S11(4)	40/23/2013	Sidewall	4	1200	< 1000	170	-
	3-TR2-S12(4)	10/23/2013	Sidewall	4	13	< 50	1.1	-
	3-TR2-S13(4)	10/23/2013	Sidewall	4	< 0.99	< 49	< 0.99	-
	3-TR2-S14	11/01/2013	Sidewall	10	< 0.99	< 49	< 0.99	-
	3-TR2-S15	11/01/2013	Sidewall	10	< 0.99	< 49	< 0.99	-
3-TR2-S16	11/01/2013	Sidewall	10	< 1.0	< 50	< 1.0	-	
3-EX2	3-EX2-B5	11/01/2013	Bottom	10	13	< 50	< 0.99	-
	3-EX2-B6	11/01/2013	Bottom	10	19	< 50	< 1.0	-
	3-EX2-B7	11/01/2013	Bottom	10	22	55	< 1.0	-
	3-EX2-S9	11/01/2013	Sidewall	5	< 1.0	< 50	< 1.0	-
	3-EX2-S10	11/01/2013	Sidewall	5	< 0.99	< 49	< 0.99	-
	3-EX2-S11	11/01/2013	Sidewall	5	2.8	< 50	< 1.0	-
	3-EX2-S13	11/01/2013	Sidewall	5	< 0.98	< 49	< 0.98	-
3-EX2-S14	11/01/2013	Sidewall	5	< 0.99	< 50	< 0.99	-	
Action Levels	ACEH Approved Work Plan				100	500		
	State-CA-ESL-ShallowSoils-DW-Res-SO, May 2013				100	500		
	State-CA-ESL-ShallowSoils-DW-Res-SO, December 2013				100	100		

Notes:

1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.
4. ~~Strikethrough~~ Sample area was over-excavated.

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CA

Location	Sample Name	Sample Date	Sample Type	Sample Depth (feet bgs)	PCBs (mg/Kg)							Semi-Volatile Organic Compounds (SIM) (mg/Kg)			
					Aroclor-1016 (PCB-1016)	Aroclor-1221 (PCB-1221)	Aroclor-1232 (PCB-1232)	Aroclor-1242 (PCB-1242)	Aroclor-1248 (PCB-1248)	Aroclor-1254 (PCB-1254)	Aroclor-1260 (PCB-1260)	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene
3-WR Excavation	3-WR-B1(2.0)	10/09/2013	Bottom	2	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	3-WR-B2(2.0)	10/09/2013	Bottom	2	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.010	< 0.010	< 0.010	< 0.010
	3-WR-B3(3.0)	11/04/2013	Bottom	3	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050 *
	3-WR-S1(1.0)	10/09/2013	Sidewall	1	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.0049	< 0.0049	< 0.0049	< 0.0049
	3-WR-S2(1.0)	10/09/2013	Sidewall	1	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.010	< 0.010	< 0.010	< 0.010
	3-WR-S3(1.0)	10/09/2013	Sidewall	4	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	3-WR-S4(1.0)	10/09/2013	Sidewall	4	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.025	< 0.025	< 0.025	< 0.025
	3-WR-S5(1.0)	10/09/2013	Sidewall	4	< 0.099	< 0.099	< 0.099	< 0.099	0.38	< 0.099	< 0.099	< 0.025	< 0.025	< 0.025	< 0.025
	3-WR-S6(1.0)	10/09/2013	Sidewall	1	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.025	< 0.025	< 0.025	< 0.025
	3-WR-S7(1.0)	10/24/2013	Sidewall	1	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.0049	< 0.0049	< 0.0049	< 0.0049
	3-WR-S8(1.0)	10/24/2013	Sidewall	1	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.0049	< 0.0049	< 0.0049	< 0.0049
3-WR-S9(1.0)	10/24/2013	Sidewall	4	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.050	< 0.050	< 0.050	< 0.050	
3-WR-S10(1.5)	11/04/2013	Sidewall	1.5	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.0049	< 0.0049	< 0.0049	< 0.0049 *	
3-WR DI	FHARF-3-WR-4(3.0)	10/08/2013	Bottom	3	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.025	< 0.025	< 0.025	< 0.025
Action Levels	ACEH Approved Work Plan														
	State-CA-ESL-ShallowSoils-DW-Res-SO, May 2013								0.22			16	13	2.8	0.38
	State-CA-ESL-ShallowSoils-DW-Res-SO, December 2013								0.22			16	13	2.8	0.38

- Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
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FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CA

Location	Sample Name	Sample Date	Sample Type	Sample Depth (feet bgs)	Semi-Volatile Organic Compounds (SIM) (mg/Kg)								
					Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene
3-WR Excavation	3-WR-B1(2.0)	10/09/2013	Bottom	2	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	3-WR-B2(2.0)	10/09/2013	Bottom	2	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
	3-WR-B3(3.0)	11/04/2013	Bottom	3	< 0.0050 *	< 0.0050 *	< 0.0050 *	< 0.0050 *	< 0.0050 *	< 0.0050 *	< 0.0050	< 0.0050	< 0.0050 *
	3-WR-S1(1.0)	10/09/2013	Sidewall	1	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049
	3-WR-S2(1.0)	10/09/2013	Sidewall	1	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
	3-WR-S3(1.0)	10/09/2013	Sidewall	4	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	3-WR-S4(1.0)	10/09/2013	Sidewall	4	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
	3-WR-S5(1.0)	10/09/2013	Sidewall	4	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
	3-WR-S6(1.0)	10/09/2013	Sidewall	1	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
	3-WR-S7(1.0)	10/24/2013	Sidewall	1	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049
	3-WR-S8(1.0)	10/24/2013	Sidewall	1	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049
3-WR-S9(1.0)	10/24/2013	Sidewall	4	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	
3-WR-S10(1.5)	11/04/2013	Sidewall	1.5	< 0.0049 *	< 0.0049 *	< 0.0049 *	< 0.0049 *	< 0.0049 *	< 0.0049 *	< 0.0049	< 0.0049	< 0.0049 *	
3-WR DI	FHARF-3-WR-4(3.0)	10/08/2013	Bottom	3	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Action Levels	ACEH Approved Work Plan												
	State-CA-ESL-ShallowSoils-DW-Res-SO, May 2013				0.038	0.38	27	0.38	3.8	0.11	40	8.9	0.38
	State-CA-ESL-ShallowSoils-DW-Res-SO, December 2013				0.038	0.38	27	0.38	3.8	0.11	40	8.9	0.38

Notes:

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FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CA

Location	Sample Name	Sample Date	Sample Type	Sample Depth (feet bgs)	Semi-Volatile Organic Compounds (SIM) (mg/Kg)			Total Petroleum Hydrocarbons (mg/Kg)		Inorganic Compounds (mg/Kg)				
					Naphthalene	Phenanthrene	Pyrene	Total Petroleum Hydrocarbons (C10-C28) DRO	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	Cadmium	Chromium	Lead	Nickel	Zinc
3-WR Excavation	3-WR-B1(2.0)	10/09/2013	Bottom	2	< 0.0050 *	< 0.0050	< 0.0050	21	64	< 0.42	38	5.9	64	39
	3-WR-B2(2.0)	10/09/2013	Bottom	2	< 0.010 *	< 0.010	< 0.010	65	280	< 0.44	63	49	77	72
	3-WR-B3(3.0)	11/04/2013	Bottom	3	< 0.0050	< 0.0050	< 0.0050 *	5.4	< 50	< 0.47	56	6.9	67	40
	3-WR-S1(1.0)	10/09/2013	Sidewall	1	< 0.0049 *	< 0.0049	< 0.0049	26	92	1.8	61	5.0	73	64
	3-WR-S2(1.0)	10/09/2013	Sidewall	1	< 0.010 *	< 0.010	< 0.010	8.6	< 50	< 0.37	38	4.8	50	39
	3-WR-S3(1.0)	10/09/2013	Sidewall	4	< 0.0050 *	< 0.0050	< 0.0050	220	1100	< 0.37	54	13	78	85
	3-WR-S4(1.0)	10/09/2013	Sidewall	4	< 0.025 *	< 0.025	< 0.025	120	460	< 0.40	120	8.1	76	64
	3-WR-S5(1.0)	10/09/2013	Sidewall	4	< 0.025 *	< 0.025	< 0.025	430	1700	< 0.41	50	12	85	55
	3-WR-S6(1.0)	10/09/2013	Sidewall	1	< 0.025 *	< 0.025	< 0.025	97	380	< 0.42	37	33	51	61
	3-WR-S7(1.0)	10/24/2013	Sidewall	1	< 0.0049	< 0.0049	< 0.0049	8.7	< 50	< 0.43	63	7.0	81	50
	3-WR-S8(1.0)	10/24/2013	Sidewall	1	< 0.0049	< 0.0049	< 0.0049	1.7	< 49	< 0.43	51	4.1	62	34
3-WR-S9(1.0)	10/24/2013	Sidewall	4	< 0.050	< 0.050	< 0.050	1900	5000	< 0.45	62	15	89	68	
3-WR-S10(1.5)	11/04/2013	Sidewall	1.5	< 0.0049	< 0.0049	< 0.0049 *	7.0	< 49	< 0.49	66	8.1	89	55	
3-WR DI	FHARF-3-WR-4(3.0)	10/08/2013	Bottom	3	< 0.025 *	< 0.025	< 0.025	91	290	< 0.40	43	43	61	71
Action Levels	ACEH Approved Work Plan				1.2			100	500					
	State-CA-ESL-ShallowSoils-DW-Res-SO, May 2013				1.2	11	85	100	500	12	0	80	150	600
	State-CA-ESL-ShallowSoils-DW-Res-SO, December 2013				1.2	11	85	100	100	12	100	80	150	600

Notes:

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TABLE 1
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CA

Location	Sample Name	Sample Date	Sample Type	Sample Depth (feet bgs)	Total Petroleum Hydrocarbons (mg/Kg)			Volatile Organic Compounds (mg/Kg)									
					Total Petroleum Hydrocarbons (C10-C28) DRO	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	Total Petroleum Hydrocarbons (C5-C12) GRO	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene
3-UST Excavation	3-UST-B1(6.5)	12/20/2013	Bottom	6.5	15000	36000	290	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
	3-UST-B2(6.5)	12/20/2013	Bottom	6.5	17000	37000	360	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
	3-UST-B3(8)	01/07/2014	Bottom	8	1500	3300	0.46	< 0.005	< 0.005	< 0.005 *	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005 *	< 0.005 *	< 0.005 *
	3-UST-B4(8)	01/07/2014	Bottom	8	1700	4200	0.71	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047
	3-UST-B5(4)	04/15/2014	Bottom	4	24	< 50	-	-	-	-	-	-	-	-	-	-	-
	3-UST-B6(8)	04/15/2014	Bottom	8	19	< 50	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S1(6)	01/07/2014	Sidewall	6	1500	3500	<0.24	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
	3-UST-S2(6)	01/07/2014	Sidewall	6	1900	4600	0.31	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
	3-UST-S3(6)	01/07/2014	Sidewall	6	3700	12000	35	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
	3-UST-S4(6)	01/07/2014	Sidewall	6	4900	17000	3.6	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	3-UST-S5(6)	01/07/2014	Sidewall	6	300	740	<0.22	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
	3-UST-S6(6)	01/17/2014	Sidewall	6	2300	7100	0.91	-	-	-	-	-	-	-	-	-	-
	3-UST-S7(6)	01/17/2014	Sidewall	6	4.7	< 50	< 0.25	-	-	-	-	-	-	-	-	-	-
	3-UST-S8(6)	01/17/2014	Sidewall	6	1800	4900	1.6	-	-	-	-	-	-	-	-	-	-
	3-UST-S9(6)	01/17/2014	Sidewall	6	190	500	<0.25	-	-	-	-	-	-	-	-	-	-
	3-UST-S10(6)	01/17/2014	Sidewall	6	<0.99	< 50	< 0.25	-	-	-	-	-	-	-	-	-	-
	3-UST-S11(3)	01/17/2014	Sidewall	3	31	51	1.1	-	-	-	-	-	-	-	-	-	-
	3-UST-S12(2)	01/17/2014	Sidewall	2	1500	<50	25	-	-	-	-	-	-	-	-	-	-
	3-UST-S13(3)	04/15/2014	Sidewall	3	11	< 50	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S14(3)	04/15/2014	Sidewall	3	48	82	-	-	-	-	-	-	-	-	-	-	-
3-UST-S15(6)	04/15/2014	Sidewall	6	<0.99	< 50	-	-	-	-	-	-	-	-	-	-	-	
3-UST-S16(6)	04/15/2014	Sidewall	6	<0.99	< 50	-	-	-	-	-	-	-	-	-	-	-	
3-UST-S17(6)	04/15/2014	Sidewall	6	<0.99	< 50	-	-	-	-	-	-	-	-	-	-	-	
3-UST-S18(3)	04/15/2014	Sidewall	3	5.7	< 50	-	-	-	-	-	-	-	-	-	-	-	
3-UST-S19(3)	04/15/2014	Sidewall	3	5.4	< 50	-	-	-	-	-	-	-	-	-	-	-	
Action Levels	ACEH Approved Work Plan				100	500											
	State-CA-ESL-ShallowSoils-DW-Res-SO, May 2013				100	500		0.0091	7.8	0.018	0.07	0.2	1	-	-	-	1.5
	State-CA-ESL-ShallowSoils-DW-Res-SO, December 2013				100	100											

Notes:

1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.
4. ~~Strikethrough~~ Sample area was over-excavated.

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CA

Location	Sample Name	Sample Date	Sample Type	Sample Depth (feet bgs)	Volatile Organic Compounds (mg/Kg)															
					1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromoethane (Ethylene Dibromide)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (Methyl Ethyl Ketone)	2-Chlorotoluene	2-Hexanone	2-Phenylbutane (sec-Butylbenzene)	
3-UST Excavation	3-UST-B1(6.5)	12/20/2013	Bottom	6.5	2.6	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	1.4	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0049	<0.049	<0.0049
	3-UST-B2(6.5)	12/20/2013	Bottom	6.5	2.3	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	1.4	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0049	<0.049	<0.0049
	3-UST-B3(8)	01/07/2014	Bottom	8	0.018 *	<0.005 *	<0.005	<0.005 *	<0.005	<0.005	<0.005	0.0088 *	<0.005 *	<0.005	<0.005 *	<0.005	<0.05	<0.005 *	<0.05	<0.005 *
	3-UST-B4(8)	01/07/2014	Bottom	8	0.0093	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.047	<0.0047	<0.047	<0.0047
	3-UST-B5(4)	04/15/2014	Bottom	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-B6(8)	04/15/2014	Bottom	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S1(6)	01/07/2014	Sidewall	6	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0049	<0.049	<0.0049
	3-UST-S2(6)	01/07/2014	Sidewall	6	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0049	<0.049	<0.0049
	3-UST-S3(6)	01/07/2014	Sidewall	6	0.13	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	0.057	<0.0047	<0.0047	<0.0047	<0.0047	<0.047	<0.0047	<0.047	0.016
	3-UST-S4(6)	01/07/2014	Sidewall	6	0.052	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.022	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.050	0.0059
	3-UST-S5(6)	01/07/2014	Sidewall	6	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0049	<0.049	<0.0049
	3-UST-S6(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S7(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S8(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S9(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S10(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S11(3)	01/17/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S12(2)	01/17/2014	Sidewall	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S13(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S14(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-UST-S15(6)	04/15/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3-UST-S16(6)	04/15/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3-UST-S17(6)	04/15/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3-UST-S18(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3-UST-S19(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Action Levels	ACEH Approved Work Plan																			
	State-CA-ESL-ShallowSoils-DW-Res-SO, May 2013				0.018 *	0.0045	0.00033	1.1	0.0045	0.12	0.0088 *	7.4	-	0.59	-	6.5	-	-	-	-
	State-CA-ESL-ShallowSoils-DW-Res-SO, December 2013																			

Notes:

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TABLE 1
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CA

Location	Sample Name	Sample Date	Sample Type	Sample Depth (feet bgs)	Volatile Organic Compounds (mg/Kg)														
					4-Chlorotoluene	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	Acetone	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane (Methyl Bromide)	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorobromomethane	Chloroethane	Chloroform (Trichloromethane)	Chloromethane (Methyl Chloride)
3-UST Excavation	3-UST-B1(6.5)	12/20/2013	Bottom	6.5	<0.0049	<0.049	<0.049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0097	<0.0049	<0.0049	<0.0049	<0.019	<0.0097	<0.0049	<0.0097
	3-UST-B2(6.5)	12/20/2013	Bottom	6.5	<0.0049	<0.049	<0.049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0098	<0.0049	<0.0049	<0.0049	<0.020	<0.0098	<0.0049	<0.0098
	3-UST-B3(8)	01/07/2014	Bottom	8	<0.005 *	<0.05	<0.05	<0.005	<0.005 *	<0.005	<0.005	<0.0099	<0.005	<0.005	<0.005	<0.02	<0.0099	<0.005	<0.0099
	3-UST-B4(8)	01/07/2014	Bottom	8	<0.0047	<0.047	<0.047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0094	<0.0047	<0.0047	<0.0047	<0.019	<0.0094	<0.0047	<0.0094
	3-UST-B5(4)	04/15/2014	Bottom	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-B6(8)	04/15/2014	Bottom	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S1(6)	01/07/2014	Sidewall	6	<0.0049	<0.049	<0.049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0097	<0.0049	<0.0049	<0.0049	<0.019	<0.0097	<0.0049	<0.0097
	3-UST-S2(6)	01/07/2014	Sidewall	6	<0.0049	<0.049	<0.049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0098	<0.0049	<0.0049	<0.0049	<0.020	<0.0098	<0.0049	<0.0098
	3-UST-S3(6)	01/07/2014	Sidewall	6	<0.0047	<0.047	0.072	<0.0047	<0.0047	<0.0047	<0.0047	<0.0094	<0.0047	<0.0047	<0.0047	<0.019	<0.0094	<0.0047	<0.0094
	3-UST-S4(6)	01/07/2014	Sidewall	6	<0.0050	<0.050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.020	<0.010	<0.0050	<0.010
	3-UST-S5(6)	01/07/2014	Sidewall	6	<0.0049	<0.049	<0.049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0097	<0.0049	<0.0049	<0.0049	<0.019	<0.0097	<0.0049	<0.0097
	3-UST-S6(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S7(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S8(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S9(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S10(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S11(3)	01/17/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S12(2)	01/17/2014	Sidewall	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S13(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S14(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-UST-S15(6)	04/15/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3-UST-S16(6)	04/15/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3-UST-S17(6)	04/15/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3-UST-S18(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3-UST-S19(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Action Levels	ACEH Approved Work Plan																		
	State-CA-ESL-ShallowSoils-DW-Res-SO, May 2013				-	2.8	0.5	0.044	-	0.34	2.2	0.35	-	0.079	1.5	-	1.1	0.85	24
	State-CA-ESL-ShallowSoils-DW-Res-SO, December 2013																		

Notes:

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PLEASANTON, CA

Location	Sample Name	Sample Date	Sample Type	Sample Depth (feet bgs)	Volatile Organic Compounds (mg/Kg)														
					cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene (p-Isopropyltoluene)	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane (CFC-12)	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methyl Tert Butyl Ether	Methylene chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	Styrene
3-UST Excavation	3-UST-B1(6.5)	12/20/2013	Bottom	6.5	<0.0049	<0.0049	<0.0049	<0.0049	<0.0097	<0.0097	<0.0049	<0.0049	<0.0049	<0.0049	<0.0097	<0.0097	0.72	<0.0049	<0.0049
	3-UST-B2(6.5)	12/20/2013	Bottom	6.5	<0.0049	<0.0049	<0.0049	<0.0049	<0.0098	<0.0098	<0.0049	<0.0049	<0.0049	<0.0049	<0.0098	<0.0098	0.85	<0.0049	<0.0049
	3-UST-B3(8)	01/07/2014	Bottom	8	<0.005	<0.005	<0.005 *	<0.005	<0.0099	<0.0099	<0.005	<0.005 *	<0.005	<0.005	<0.0099	<0.0099 *	<0.005 *	<0.005 *	<0.005
	3-UST-B4(8)	01/07/2014	Bottom	8	<0.0047	<0.0047	<0.0047	<0.0047	<0.0094	<0.0094	<0.0047	<0.0047	<0.0047	<0.0047	<0.0094	0.021	<0.0047	<0.0047	<0.0047
	3-UST-B5(4)	04/15/2014	Bottom	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-B6(8)	04/15/2014	Bottom	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S1(6)	01/07/2014	Sidewall	6	<0.0049	<0.0049	<0.0049	<0.0049	<0.0097	<0.0097	<0.0049	<0.0049	<0.0049	<0.0049	<0.0097	<0.0097	<0.0049	<0.0049	<0.0049
	3-UST-S2(6)	01/07/2014	Sidewall	6	<0.0049	<0.0049	<0.0049	<0.0049	<0.0098	<0.0098	<0.0049	<0.0049	<0.0049	<0.0049	<0.0098	<0.0098	<0.0049	<0.0049	<0.0049
	3-UST-S3(6)	01/07/2014	Sidewall	6	<0.0047	<0.0047	0.016	<0.0047	<0.0094	<0.0094	0.013	<0.0047	0.0080	<0.0047	<0.0094	0.097	0.030	0.022	<0.0047
	3-UST-S4(6)	01/07/2014	Sidewall	6	<0.0050	<0.0050	0.0059	<0.0050	<0.010	<0.010	0.0062	<0.0050	<0.0050	<0.0050	<0.010	0.044	0.012	0.0079	<0.0050
	3-UST-S5(6)	01/07/2014	Sidewall	6	<0.0049	<0.0049	<0.0049	<0.0049	<0.0097	<0.0097	<0.0049	<0.0049	<0.0049	<0.0049	<0.0097	<0.0097	<0.0049	<0.0049	<0.0049
	3-UST-S6(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S7(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S8(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S9(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S10(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S11(3)	01/17/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S12(2)	01/17/2014	Sidewall	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S13(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S14(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-UST-S15(6)	04/15/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3-UST-S16(6)	04/15/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3-UST-S17(6)	04/15/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3-UST-S18(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3-UST-S19(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Action Levels	ACEH Approved Work Plan																		
	State-CA-ESL-ShallowSoils-DW-Res-SO, May 2013				0.19	-	-	7.6	-	-	2.9	4.3	-	0.023	0.077	1.2	-	-	1.5
	State-CA-ESL-ShallowSoils-DW-Res-SO, December 2013																		

Notes:

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PLEASANTON, CA

Location	Sample Name	Sample Date	Sample Type	Sample Depth (feet bgs)	Volatile Organic Compounds (mg/Kg)											
					tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane (CFC-11)	Trifluorotrchloroethane (Freon 113)	Vinyl acetate	Vinyl chloride	Xylene (total)	
3-UST Excavation	3-UST-B1(6.5)	12/20/2013	Bottom	6.5	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0049	<0.0097	
	3-UST-B2(6.5)	12/20/2013	Bottom	6.5	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0049	<0.0098	
	3-UST-B3(8)	01/07/2014	Bottom	8	<0.005 *	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	0.01	
	3-UST-B4(8)	01/07/2014	Bottom	8	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.047	<0.0047	<0.0094	
	3-UST-B5(4)	04/15/2014	Bottom	4	-	-	-	-	-	-	-	-	-	-	-	
	3-UST-B6(8)	04/15/2014	Bottom	8	-	-	-	-	-	-	-	-	-	-	-	
	3-UST-S1(6)	01/07/2014	Sidewall	6	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0049	<0.0097	
	3-UST-S2(6)	01/07/2014	Sidewall	6	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0049	<0.0098	
	3-UST-S3(6)	01/07/2014	Sidewall	6	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.047	<0.0047	0.084	
	3-UST-S4(6)	01/07/2014	Sidewall	6	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	0.041	
	3-UST-S5(6)	01/07/2014	Sidewall	6	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0049	<0.0097	
	3-UST-S6(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	
	3-UST-S7(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	
	3-UST-S8(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	
	3-UST-S9(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	
	3-UST-S10(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	
	3-UST-S11(3)	01/17/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	
	3-UST-S12(2)	01/17/2014	Sidewall	2	-	-	-	-	-	-	-	-	-	-	-	
	3-UST-S13(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	
	3-UST-S14(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	
3-UST-S15(6)	04/15/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-		
3-UST-S16(6)	04/15/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-		
3-UST-S17(6)	04/15/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-		
3-UST-S18(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-		
3-UST-S19(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-		
Action Levels	ACEH Approved Work Plan															
	State-CA-ESL-ShallowSoils-DW-Res-SO, May 2013					-	0.43	2.9	0.67	-	0.46	-	-	-	0.029	0.010
	State-CA-ESL-ShallowSoils-DW-Res-SO, December 2013															

Notes:

1. Constituents that were not detected during initial round of sampling were excluded from further a
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.
4. ~~Strike through~~ Sample area was over-excavated.