Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/22/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH1	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
	1.8		GP	0-1 ft: fill asphalt, concrete, sand, gravel, black	100% Recovery
					25% Recovery
	1.9		CL-ML	1-5 ft: sandy clay, brown, most	
		5			
	90.8			5-7.5 ft: most to wet @ 5', strong petroleum odor below 5'	Low Recovery, wet below 8'
				7.5-10 ft: sandy silt, gray	
	48.3				
		10	ML		
PS3Soil-BH1-10.5-12.5-20220822-0 @ 1530	979.5				
PS3Soil-BH1-12.5-15-20220822-0 @ 1545	17.1				
		15		End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie & Tyler Allen	Holt/Blake Urie & Tyler Allen
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 8 feet bgs	13:00	14:00

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/22/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH2	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
	24.8		GP	0-1 ft: fill asphalt, concrete, sand, gravel, black	100% Recovery
	1.8			1-5 ft" sandy silt, brown, moist	25% Recovery
		5			
	5.8			5-7.5 ft: moist	50% Recovery
PS3Soil-BH2-7.5-10-20220822-0 @ 1600	5.9		ML	7.5-10 ft: wet to below 7.5 ft, brown	Wet below 8'
		10			
	1.0			10-12.5 ft:	100% Recovery
	0.2			12.5-15 ft:	
		15		End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie & Tyler Allen	Holt/Blake Urie & Tyler Allen
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 8.5 feet bgs	14:15	14:35

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/22/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH3	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
	4.3		GP	0-1 ft: asphalt, sand, gravel, dry	80% Recovery
	3.3	5	ML	4-5 ft: silt, brown, moist	100% Recovery
	4.3			5-7.5 ft: silt with sand, moist, brown	
	38.0			7.5-10 ft: brown, odor	Wet below 8'
PS3Soil-BH3-10-12.5-20220822-0 @ 1610	979.6	10		10-12.5 ft: dark gray	80% Recovery
PS3Soil-BH3-12.5-15-20220822-0 @ 1615	68.8	15		End of boring at 15 feet Backfilled with bentonite chips	100% Recovery
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie & Tyler Allen	Holt/Blake Urie & Tyler Allen
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 8.5 feet bgs	14:45	15:05

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/22/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH4	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
	6.2		GP	0-5 ft: asphalt, sand, gravel, dry	40% Recovery
	46.7	5		5-10 ft: sandy silt, moist, brown, odor	60% Recovery
	6.3				Wet below 8'
PS3Soil-BH4-10-12.5-20220822-0 @ 1630	18.7	10	ML	10-12.5 ft: light brown	
	2.1			12.5-15 ft: wet, dark brown	100% Recovery
		15		End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie & Tyler Allen	Holt/Blake Urie & Tyler Allen
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 8.5 feet bgs	15:30	16:00

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/22/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH5	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
	145.2		GP	0-1 ft: asphalt, sand, gravel, dry	80% Recovery
	1,074			1-5 ft: silt, moist, strong petroleum odor	100% Recovery
P3Soil-BH5-5-7.5-20220822-0 @ 1830	1,559	5		5-7.5 ft: brown, strong petroleum odor	50% Recovery
	758.8		ML	7.5-10 ft: strong petroleum odor	100% Recovery Wet below 8'
	505.0	10		10-12.5 ft: brown-gray, petroleum odor	
P3Soil-BH5-13.5-15-20220822-0 @ 1820	17.9			12.5-15 ft: wet, gray	
		15		End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie & Tyler Allen	Holt/Blake Urie & Tyler Allen
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 8.5 feet bgs	17:30	18:00

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/22/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH6	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
	377.7		GP	0-1 ft: asphalt, sand, gravel, dry	50% Recovery
	1,319			1-5 ft: silt, brown, odorous	100% Recovery
	989.2	5		5-10 ft: shiny gray sheen, strong petroleum odor	
			ML		Wet below 8'
	408.9	10		10-12 ft: gray, wet, strong smell	
	852.0			12-13 ft: gray, wet, strong smell	
P3Soil-BH6-13-15-20220822-0 @ 1835	355.0			13-15 ft:	
		15		End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie & Tyler Allen	Holt/Blake Urie & Tyler Allen
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 8.5 feet bgs	17:30	18:00

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/23/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH7	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
	72.7		GP	0-1 ft: asphalt, sand, gravel, dry	Poor Recovery
	6.1		CL-ML	1-5 ft: sand, clay, brown	80% Recovery
	197.1	5	ML	5-10 ft: silt, moist, slight petroleum smell	Wet below 9'
P3Soil-BH7-10-11-20220823-0 @ 1035	333.6 286.4 22.2	10		10-11 ft: brown, wet, petroleum smell 11-13 ft: gray, petroleum smell 13-15 ft: gray	100% Recovery
		15		End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 9 feet bgs	7:30	8:00

Boring Log

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Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/23/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH8	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
	9.9		GP	0-1 ft: asphalt, sand, gravel, dry	Poor Recovery
	6.2			1-4 ft: silt, brown	100% Recovery
	5.4	5		4-5 ft:	
	8.1			5-10 ft: silt, moist, odor	80% Recovery
			ML		
	7.5	10		10-12.5 ft: faint petroleum smell	Wet below 9'
P3Soil-BH8-10-11-20220823-0 @ 1130	150.8			12.5-15 ft: gray, petroleum smell	100% Recovery
		15		End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 9 feet bgs	8:10	8:40

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/23/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH9	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
	4.2		GP	0-2 ft: asphalt, sand, gravel, dry	80% Recovery, 8" of surface concrete
				2-5 ft: silt, brown, moist	
	5.8	5		5-7.5 ft: wet	100% Recovery
	33.9		ML	7.5-10 ft: gray	Wet below 8'
P3Soil-BH9-10-13-20220823-0 @ 1210	70.7	10		10-13 ft: dark brown, petroleum odor	
P3Soil-BH9-13-15-20220823-0 @ 1150	213.5			13-15 ft: gray, petroleum odor	
		15		End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 8.5 feet bgs	9:00	9:30

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/23/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH10	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
No samples taken at this bore hole	5.5		GP	0-1 ft: asphalt, sand, gravel, dry	80% Recovery
	3.8			1-5 ft: silt, brown, moist	100% Recovery
	1.9	5		5-10 ft: silt, brown, wet	
			ML		Wet below 8'
	2.1	10		10-12 ft:	80% Recovery
	1.2			12-15 ft: gray	100% Recovery
		15		End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 8.5 feet bgs	9:45	10:10

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/23/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH11	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
	7.6		GP	0-1 ft: fill, sand, gravel, dry	100% Recovery
P3Soil-BH11-1-5-20220823-0 @ 1220	8.2			1-5 ft: silt, brown, moist	
	22.6	5		5-10 ft: silt, brown, petroleum smell	
			ML		Wet below 8'
P3Soil-BH11-10-12.5-20220823-0 @ 1230	142.9	10		10-12.5 ft: dark brown, wet, petroleum smell	
	19.7			12.5-15 ft: dark brown	
		15		End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 8.5 feet bgs	10:35	10:55

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/23/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH12	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
	6.2		GP	0-1 ft: asphalt, sand, gravel, dry	80% Recovery
	5.6			1-5 ft: silt, brown, moist	100% Recovery
	1.7	5	ML	5-10 ft:	Wet below 8'
P3Soil-BH12-12.5-15-20220823-0 @ 1220	6.7	10		10-12.5 ft: wet	
	71.1			12.5-15 ft: wet, petroleum smell	
		15		End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 8.5 feet bgs	11:00	11:20

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/23/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH13	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
			GP	0-1 ft: fill, sand, gravel, dry	80% Recovery
	6.5			1-5 ft: silt, brown, moist	
	2.8	5		5-10 ft: wet, chlroine/chemical like smell	Wet below 8'
			ML		
	8.1	10		10-14 ft: chlorine like smell	100% Recovery
P3Soil-BH13-14-15-20220823-0 @ 1500	131.1	15		14-15 ft: gray, petroleum smell	
				End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 8.5 feet bgs	14:00	14:15

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/23/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH14	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
			GP	0-1 ft: fill, sand, gravel, dry	60% Recovery
	22.4			1-5 ft: silt, brown, moist	
	37.4	5		5-8 ft: wet	100% Recovery
	38.1		ML	8-10 ft: strong petroleum odor	Wet below 8'
	98.3	10		10-13 ft: petroleum smell	
P3Soil-BH14-13-15-20220823-0 @ 1510	1,487			13-15 ft: gray, petroleum, chlorine smell	
		15		End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 8.5 feet bgs	14:15	14:30

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/23/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH15	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
			GP	0-1 ft: fill, sand, gravel, dry	60% Recovery
	14.2			1-5 ft: silt, brown, moist	
	16.1	5		5-10 ft: silt, brown	80% Recovery
			ML		Wet below 8'
	219.7	10		10-12 ft: silt-sand, slight odor	
P3Soil-BH15-12-15-20220823-0 @ 1530	402.4			12-15 ft: silt with sand, brown	
		15		End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 8.5 feet bgs	14:35	14:45

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/23/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH16	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
			GP	0-1 ft: sand, gravel, dry	60% Recovery
P3Soil-BH16-1-5-20220823-0 @ 1640	3.7			1-5 ft: silt, brown, moist	100% Recovery
	4.0	5	ML	5-10 ft: silt, wet	80% Recovery
					Wet below 8'
	5.1	10		10-15 ft: silt with sand, gray-brown, wet	100% Recovery
		15		End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 8.5 feet bgs	14:45	15:00

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/23/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH17	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
			GP	0-1 ft: sand, gravel, dry	50% Recovery
P3Soil-BH16-1-5-20220823-0 @ 1640	2.9			1-5 ft: silt, brown, moist	
	5.1	5		5-10 ft:	
			ML		Wet below 8'
	5.1	10		10-13 ft: brown, wet	80% Recovery
P3Soil-BH17-13-15-20220823-0 @ 1650	21.5			13-15 ft: gray, wet	
		15		End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 8.5 feet bgs	15:30	15:40

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/23/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH18	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
			GP	0-2 ft: sand, gravel, dry	80% Recovery
	2.1			2-5 ft: silt, brown, moist	
	6.3	5		5-7 ft:	90% Recovery
	4.2		ML	7-10 ft: brown, wet	100% Recovery Wet below 8'
	4.1	10		10-14 ft: silt with gravel, brown	80% Recovery
P3Soil-BH18-14-15-20220823-0 @ 1655	172.3	15		14-15 ft: silt, gray, petroleum smell	100% Recovery
				End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 8.5 feet bgs	15:45	16:00

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/24/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH19	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
	1.1			0-5 ft: silt, brown, moist	75% Recovery
P3Soil-BH19-5-9-20220824-0 @ 1220	12.1	5		5-9 ft: brown, moist	100% Recovery
P3Soil-BH19-9-10-20220824-0 @ 1610	44.6		ML	9-10 ft: silt, gray, wet	Wet below 9'
	22.3	10		10-12 ft: silt, gray-brown	
	23.2			12-15 ft: silt with sand, brown	
		15		End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 9 feet bgs	9:30	10:00

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/24/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH20	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
	16.5		GP	0-1 ft: gravel, sand, dry	75% Recovery
	23.4			1-5 ft: silt, brown, moist, chemical order	100% Recovery
	33.8	5		5-9 ft: silt, brown, moist	
P3Soil-BH20-9-10-20220824-0 @ 1625	1,651		ML	9-10 ft: silt, gray, wet, petroleum smell	Wet below 9'
	57.9	10		10-12 ft: silt, brown, slight petroleum smell	
P3Soil-BH20-12-13-20220824-0 @ 1635	2,852			12-13 ft: brown-gray, petroleum smell	
	142.2			13-15 ft: gray, petroleum smell	
		15		End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 9 feet bgs	10:20	10:40

Boring Log

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Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/24/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH21	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
			GP	0-2 ft: fill, gravel, sand, dry	60% Recovery
P3Soil-BH21-3-5-20220824-0 @ 1645	26.7	5	ML	3-5 ft: silt, brown, most, slight chemical smell	
	67.9			5-10 ft: slight petroleum smell	75% Recovery
	1627	10		10-12.5 ft: wet, brown, strong petroleum smell	100% Recovery, wet below 10'
P3Soil-BH21-12.5-15-20220824-0 @ 1655	2,711	15		12.5-15 ft: silt, gray, strong petroleum smell	
		20		End of boring at 15 feet Backfilled with bentonite chips	
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 10 feet bgs	10:45	10:55

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/24/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH22	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
P3Soil-BH22-0-5-20220824-0 @ 1705	35.9	0	GP	0-5 ft: fill, gravel, sand, dry	20% Recovery Additional bore taken adjacent to original bore due to poor recovery - silt, brown, moist, 80% recovery, 25.8 ppm
	70.4	5	ML	5-10 ft: silt, brown, moist, petroleum smell	30% Recovery
	770.3	10		10-12.5 ft: wet, petroleum smell	100% Recovery, wet below 10'
P3Soil-BH22-12.5-15-20220824-0 @ 1715	2,613	15		12.5-15 ft: silt, gray, moist, petroleum smell	
		20		End of boring at 15 feet Backfilled with bentonite chips	
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 10 feet bgs	11:40	11:50

Boring Log

Page 1 of 1

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/24/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH23	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
			GP	0-2 ft: fill, gravel, sand, dry	95% Recovery
	7.1			2-5 ft: silt, brown, moist	100% Recovery
	18.9	5		5-10 ft: silt, brown, moist	75% Recovery
	54.1	10	ML	10-12.5 ft: brown wet, petroleum smell	100% Recovery, wet below 10'
P3Soil-BH23-12.5-15-20220824-0 @ 1725	2,552			12.5-15 ft: silt, gray, wet, petroleum smell	
		15		End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 10 feet bgs	13:35	13:50

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/24/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH24	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
			GP	0-2 ft: fill, gravel, sand, dry	60% Recovery
P3Soil-BH24-2-5-20220824-0 @ 1740	25.5			2-5 ft: silt, brown, moist	100% Recovery
	12.6	5		5-10 ft: silt, brown, wet, slight petroleum odor	80% Recovery
	286.1	10	ML	10-13 ft: brown, petroleum smell	Wet below 9' 100% Recovery
P3Soil-BH24-13-14.5-20220824-0 @ 1745	1,793			13-14.5 ft: gray, strong petroleum smell 14.5-15 ft: brown, slight petroleum smell	
		15		End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 9 feet bgs	13:50	14:00

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/24/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH25	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
			GP	0-1 ft: fill, gravel, sand, dry	80% Recovery
	38.1			1-5 ft: silt, brown, moist	100% Recovery
	44.6	5		5-10 ft: silt, brown	75% Recovery
			ML		
P3Soil-BH25-10-13-20220824-0 @ 1755	853.4	10		10-13 ft: brown wet, petroleum smell	Wet below 10'
	1,023			13-15 ft: silt-sand wet, gray, strong petroleum smell	
		15		End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 10 feet bgs	14:50	15:00

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/24/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH26	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
			GP	0-1 ft: fill, gravel, sand, dry	80% Recovery
P3Soil-BH26-0-2-20220824-0 @ 1805	30.9			1-5 ft: silt, brown, moist	100% Recovery
	23.5	5	ML	5-10 ft: slight fertilizer odor	60% Recovery
P3Soil-BH26-12-13-20220824-0 @ 1815	797.7	10		10-12 ft: brown wet, fertilizer and petroleum smell	100% Recovery, wet below 10'
	1,611			12-13 ft: gray, wet, shiny sheen, petroleum smell	
	418.2	15		13-15 ft: silt-sand wet, gray, slight petroleum smell	
				End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 10 feet bgs	15:00	15:10

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/25/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH27	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
			GP	0-1 ft: fill, gravel, sand, dry	75% Recovery
P3Soil-BH27-0-1-20220825-0 @ 1745	17			1-5 ft: silt, brown, moist	100% Recovery
	36.3	5		5-10 ft: silt, wet	80% Recovery, wet below 9'
			ML		
	258.0	10		10-15 ft: silt with sand, gray, petroleum odor	75% Recovery
		15		End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 9 feet bgs	8:40	8:50

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/25/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH28	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
			GP	0-1 ft: fill, gravel, sand, dry	50% Recovery
	24.6			1-5 ft: silt, brown, moist	100% Recovery
	36.1	5		5-10 ft: wet, petroleum smell	80% Recovery, wet below 9'
			ML		
P3Soil-BH28-10-13-20220825-0 @ 1750	965.7	10		10-13 ft: silt, gray, greasy, petroleum smell	75% Recovery
				13-15 ft: silt, gray, petroleum smell	100% Recovery
		15		End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 9 feet bgs	8:50	9:00

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/25/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH29	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
	6.5			0-3 ft: silt, most, brown	100% Recovery
P3Soil-BH29-0-3-20220825-0 @ 1800	30.5			3-5 ft: moist, brown	100% Recovery
	29.8	5		5-10 ft: wet, brown	70% Recovery, wet below 9'
			ML		
	33.8	10		10-13 ft: silt, brown, wet, slight fertilizer/chemical smell	100% Recovery
	16.9			13-15 ft: gray-brown, moist, slight petroleum smell	
		15		End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 9 feet bgs	9:30	9:40

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/25/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH30	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
	50.7		GP	0-2 ft: gravel, sand, dry	80% Recovery
	11.3		ML	2-5 ft: silt, moist, brown, slight fertiilzer/chemical smell	100% Recovery
P3Soil-BH30-5-10-20220825-0 @ 1805	113.7	5		5-10 ft: wet, brown, slight fertiilzer smell	80% Recovery, wet below 9'
	10.1	10		10-14 ft: brown, wet	100% Recovery
	13.4	15		14-15 ft: brown, moist	
				End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 9 feet bgs	9:45	9:55

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/25/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH31	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
			GP	0-1 ft: asphalt, gravel, sand, dry	80% Recovery
	119.4			1-5 ft: silt, moist, brown	100% Recovery
	115.7	5		5-7.5 ft: moist, brown, slight petroleum smell smell	80% Recovery
P3Soil-BH31-5-7.5-20220825-0 @ 1810	137.9		ML	7.5-10 ft: brown-gray, wet, petroleum smell	100% Recovery, wet below 9 ft
	796.2	10		10-12 ft: brown, wet, strong petroleum odor	
P3Soil-BH31-12-14-20220825-0 @ 1830	1,816			12-14 ft: silt with sand, black, wet, strong petroleum odor	
	1,965	15		14-15 ft: wilt, gray, wet, strong petroleum odor	
				End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 9 feet bgs	10:35	10:45

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/25/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH32	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
			GP	0-2 ft: gravel, sand, dry	100% Recovery
P3Soil-BH32-2-5-20220825-0 @ 1840	53.1			2-5 ft: silt, moist, brown	
	14.4	5	ML	5-10 ft: wet, brown	Wet below 9'
	17.8	10		10-12.5 ft: brown, wet	
	13.7			12.5-15 ft: brown, moist	
		15		End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 9 feet bgs	14:55	15:15

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/25/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH33	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
	40.3		GP	0-1 ft: gravel, sand, dry	100% Recovery
	63.5			1-3 ft: silt, moist, brown	
P3Soil-BH33-1-3-20220825-0 @ 1850	80.8			3-5 ft: brown, moist	
	49.3	5		5-10 ft: silt, brown, wet	80% Recovery, wet below 9'
			ML		
	19.6	10		10-12.5 ft: brown, wet	100% Recovery
	10.2			12.5-15: silt with sand, brown, wet	
		15		End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 9 feet bgs	15:30	15:40

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/26/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH34	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
	6.2		GP	0-1 ft: asphalt, gravel, sand, dry	40% Recovery
	2.7			1-5 ft: silt, moist	70% Recovery
		5		5-10 ft:	
			ML		
	2.2	10		10-14 ft: silt, wet, brown	100% Recovery, wet below 10'
P3Soil-BH34-14-15-20220826-0 @ 1140	1.8	15		14-15 ft: brown-gray, moist	
				End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 10 feet bgs	8:00	8:10

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/26/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH35	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
			GP	0-1 ft: asphalt, gravel, sand, dry	80% Recovery
	10.4			1-5 ft: silt, brown, moist	100% Recovery
		5			
	25.6			5-10 ft: silt, brown, wet	Wet below 9'
P3Soil-BH35-5-10-20220826-0 @ 1130			ML		
		10			
	14.5			10-15 ft: silt with sand, brown, wet	
		15			
				End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 9 feet bgs	8:20	8:30

Boring Log

Project Name	Project No.	Drilling Company	Date:
Simplot-Sunnyside	10302086	Holt Services, Inc.	8/26/2022

Boring No	Location	Drilling Rig Type and Drilling Method
P3Soil-BH36	Sunnyside, WA	Direct Push

Sample No.	PID Reading (ppm)	Depth (feet)	Graphic Drscription	Soil Description	Comments
	53.1		GP	0-1 ft: asphalt, gravel, sand, dry	80% Recovery
	55.9			1-5 ft: silt, brown, moist	100% Recovery
	134.4	5		5-10 ft: silt, brown, wet, petroleum odor	50% Recovery, wet below 9'
P3Soil-BH36-10-13-20220826-0 @ 1120	353.6	10	ML	10-13 ft: wet, petroleum odor	100% Recovery
P3Soil-BH36-13-15-20220826-0 @ 1110	1,392			13-15 ft: gray, wet, petroleum odor	
FB @ 0830		15		End of boring at 15 feet Backfilled with bentonite chips	
		20			
		25			
		30			
		35			

Water Level	Logged By:	Drilled/Sampled By:
	Blake Urie	Holt/Blake Urie
While Drilling:	Time Started:	Time Completed:
Groundwater encountered at 9 feet bgs	9:30	9:40

INDOOR AIR BUILDING SURVEY
and SAMPLING FORM Warehouse

Preparer's name: Jered Newcomb, EIT Date: 5/10/2022

Preparer's affiliation: Consultant Phone #: 509-899-4371

Site Name: Simplot Grower Solutions Site ~~Case~~ Project #: 10302086 / Task # 11

Part I - Occupants

Building Address: 300 1st Street, Sunnyside, WA

Property Contact: Jaime Alba Owner / Renter / other: Location Manager

Contact's Phone: home ( )_____ work ( )_____ cell (509) 985-8808

# of Building occupants: Children under age 13 0 Children age 13-18 0 Adults _____

Part II – Building Characteristics

Building type: residential / multi-family residential / office / strip mall / (commercial) / industrial

Describe building: Insulated warehouse with concrete floor, 1 sub room, 1 Bay door Year constructed: 1965

Sensitive population: day care / nursing home / hospital / school / other (specify): N/A

Number of floors below grade: 0 (full basement / crawl space / slab on grade)

Number of floors at or above grade: 1

Depth of basement below grade surface: _____ ft. Basement size: _____ ft^2

Basement floor construction: concrete / dirt / floating / stone / other (specify): _____

Foundation walls: (poured concrete) / cinder blocks / stone / other (specify) _____

Basement sump present? *Yes* / (*No*) Sump pump? *Yes* / (*No*) Water in sump? *Yes* / (*No*)

Type of heating system (circle all that apply):

(hot air circulation)	hot air radiation	wood	steam radiation
heat pump	hot water radiation	kerosene heater	electric baseboard

other (specify): Natural ~~gas~~ gas

Type of ventilation system (circle all that apply):

central air conditioning | mechanical fans | bathroom ventilation fans individual air conditioning units | kitchen range hood fan | outside air intake
other (specify): _____

Type of fuel utilized (circle all that apply):
Natural gas / electric / fuel oil / wood / coal / solar / kerosene

Are the basement walls or floor sealed with waterproof paint or epoxy coatings? *Yes* / *No*

Is there a whole house fan? *Yes* / *No*

Septic system? *Yes* / *Yes (but not used)* / *No*

Irrigation/private well? *Yes* / *Yes (but not used)* / *No*

Type of ground cover outside of building: grass / concrete / asphalt / other (specify) gravel

Existing subsurface depressurization (radon) system in place? *Yes* / *No* *active / passive*

Sub-slab vapor/moisture barrier in place? *Yes* / *No*
Type of barrier: _____

Part III - Outside Contaminant Sources

Potential contaminated site (1000-ft. radius): Chemical storage tanks/containment

Other stationary sources nearby (gas stations, emission stacks, etc.): Industrial area/railroad tracks northof property

Heavy vehicular traffic nearby (or other mobile sources): mobile semi-trucks / rail cars.

Part IV – Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor and room), and whether the item was removed from the building 48 hours prior to indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the commencement of the indoor air sampling event.

Potential Sources	Location(s)	Removed (Yes / No / NA)
Gasoline storage cans		
Gas-powered equipment		
Kerosene storage cans		
Paints / thinners / strippers		
Cleaning solvents		
Oven cleaners		
Carpet / upholstery cleaners		
Other house cleaning products		
Moth balls		
Polishes / waxes		
Insecticides/Herbicides	2gal + 3gal chemical sprayers (unknown chemicals)	Yes
Furniture / floor polish		
Nail polish / polish remover		
Hairspray		
Cologne / perfume		
Air fresheners		
Fuel tank (inside building)		NA

Wood stove or fireplace		NA
New furniture / upholstery		
New carpeting / flooring		NA
Hobbies - glues, paints, etc.		

Part V – Miscellaneous Items

Do any occupants of the building smoke? *Yes* / (No) How often? _____

Last time someone smoked in the building? _____ hours / *days* *ago*

Does the building have an attached garage directly connected to living space? *Yes* / (No)

If so, is a car usually parked in the garage? *Yes* / *No*

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? *Yes* / *No*

Do the occupants of the building have their clothes dry cleaned? *Yes* / (No)

If yes, how often? weekly / monthly / 3-4 times a year

Do any of the occupants use solvents in work? (Yes) / *No*

If yes, what types of solvents are used? Normal cleaning solvents

If yes, are their clothes washed at work? *Yes* / (No)

Have any pesticides/herbicides been applied around the building or in the yard? (Yes) / No

If so, when and which chemicals? Round-Up (4/21)

Has there ever been a fire in the building? *Yes* / (No) If yes, when? _____

Has painting or staining been done in the building in the last 6 months? *Yes* / (No)

If yes, when _____ and where? _____

Has there been any remodeling done (flooring/carpeting) in the building in the last 6 months? *Yes* / (No)

If yes, when _____ and where? _____

Part VI – Sampling Information

Sample Technician: Jered Newcomb Phone number: (509) 899 - 4371

Sample Source: (Indoor Air) / (Sub-Slab) / Near Slab Soil Gas / Exterior Soil Gas

Sampler Type: Tedlar bag / Sorbent / (Stainless Steel Canister) / Other (specify): _____

Analytical Method: (TO-15) / TO-17 / other: _____ Cert. Laboratory: _____

Sample locations (floor, room):

Field ID # SS - 1 - 220511 Field ID # SS - 2 - 220511

Field ID # SS - DUP-220511 Field ID # IA - W1-20220511
IA - W2-20220511

Were "Instructions for Occupants" followed? (Yes) / No

If not, describe modifications: Left chemical sprayers inside

Additional Comments:

0.0 ppm of VOCs detected through entire area of warehouse

Chemical sprayers moved outside

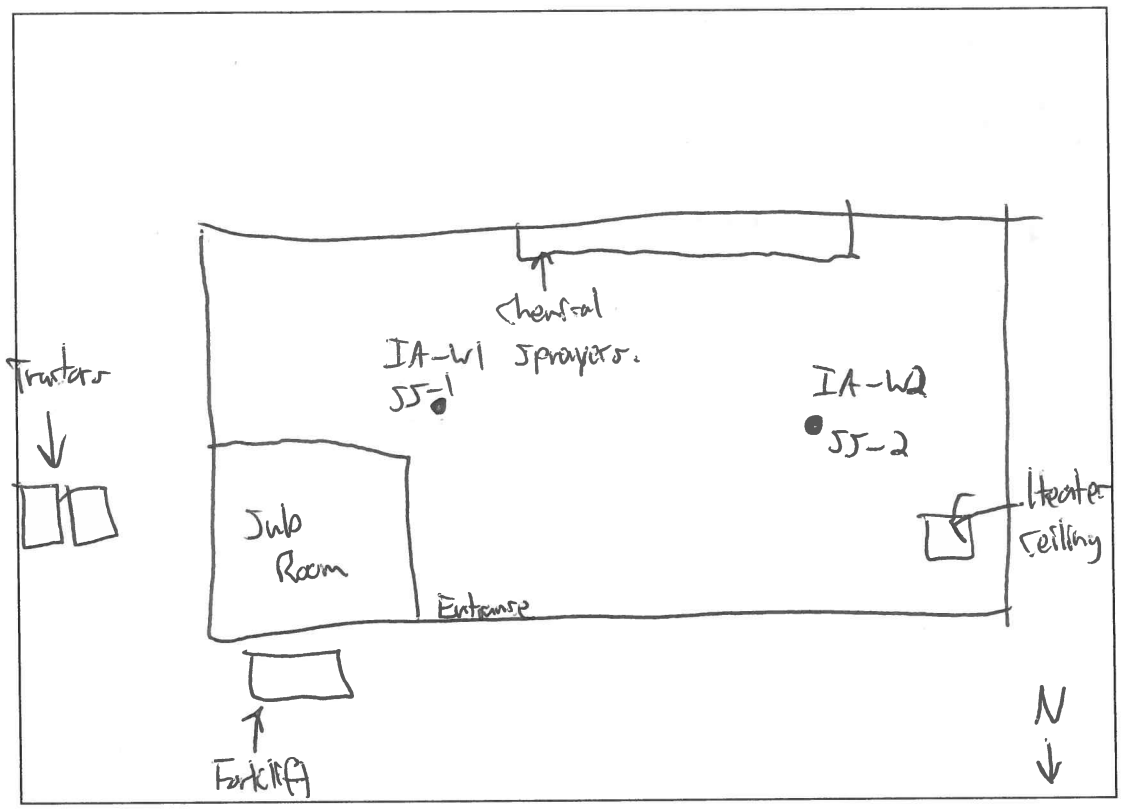
1 Forklift park N of warehouse

2 tractors parked E of warehouse.

Soil + gravel staining throughout site + around warehouse

IDW + unknown barrels outside @ SE corner of warehouse

Provide Drawing of Sample Location(s) in Building



Part VII - Meteorological Conditions

Was there significant precipitation within 12 hours prior to (or during) the sampling event? *Yes / No*

Describe the general weather conditions: _____

_____

Part VIII – General Observations

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process.

_____

_____

_____

(NJDEP 1997; NHDES 1998; VDOH 1993; MassDEP 2002; NYSDOH 2005; CalEPA 2005; OhioEPA 2015)

Instructions for Building Occupants Prior to Indoor Air Sampling

This form should be reviewed by building occupant personnel. Representatives will be collecting one or more indoor air samples from your building on _____ - beginning @ _____ and ending @ _____. Your assistance is requested during the sampling program in order to collect an indoor air sample that is both representative of indoor conditions and avoids the common background indoor air sources associated with occupant activities and consumer products.

Please follow the instructions below starting at least 48 hours (2 days) prior to and during the indoor air sampling event:

- ❑ Do operate your furnace and whole house air conditioner as appropriate for the current weather conditions
- ❑ Do not use wood stoves, fireplaces or auxiliary heating equipment
- ❑ Do not use window air conditioners, fans or vents
- ❑ Do not use paints or varnishes (up to a week in advance, if possible)
- ❑ Do not use cleaning products (e.g., bathroom cleaners, furniture polish, appliance cleaners, all-purpose cleaners, floor cleaners)
- ❑ Do not use hair spray, nail polish remover, perfume, etc.
- ❑ Do not store containers of gasoline, oil or solvents within an attached garage.
- ❑ Do not operate or store automobiles within an attached garage
- ❑ Do not open windows or keep doors open
- ❑ Do not smoke in the building
- ❑ Do not apply pesticides
- ❑ Do not use air fresheners or odor eliminators
- ❑ Do not engage in indoor hobbies that use solvents (e.g. gun cleaning)
- ❑ Do not operate gasoline powered equipment within the building, attached garage or around the immediate perimeter of the building
- ❑ Do not bring freshly dry cleaned clothes into the building

You will be asked a series of questions about the structure, consumer products you store in your building, and occupant activities typically occurring in the building. These questions are designed to identify "background" sources of indoor air contamination. While this investigation is looking for a select number of chemicals related to the known or suspected subsurface contamination, the laboratory will be analyzing the indoor air samples for a wide variety of chemicals. As a result, chemicals such as tetrachloroethene that is commonly used in dry cleaning or acetone, which is found in nail polish remover might be detected in your sample results.

Your cooperation is greatly appreciated. If you have any questions about these instructions, please feel free to contact _____ at _____.

Modular Building

INDOOR AIR BUILDING SURVEY and SAMPLING FORM

Preparer's name: Jered Newcomb, EIT Date: 5/10/2022

Preparer's affiliation: Consultant Phone #: 509-899-4371

Site Name: Simplot Grower Solutions Site ~~Case~~ Project #: 10302086 / Task#11

Part I - Occupants

Building Address: 300 1st Street, Sunnyside, WA

Property Contact: Jaime Alba Owner / Renter / other: Location Manager

Contact's Phone: home ( )_____ work ( )_____ cell (509) 985-8808

# of Building occupants: Children under age 13 0 Children age 13-18 0 Adults 4

Part II – Building Characteristics

Building type: residential / multi-family residential / (office) / strip mall / (commercial) / industrial

Describe building: Manufactured building, concrete foundation, crawlspace Year constructed: 2011

Sensitive population: day care / nursing home / hospital / school / other (specify): N/A

Number of floors below grade: 0 (full basement / ~~crawl space~~ / slab on grade)

Number of floors at or above grade: 1

Depth of basement below grade surface: _____ ft. Basement size: _____ ft^2

Basement floor construction: concrete / dirt / floating / stone / other (specify): _____

Foundation walls: (poured concrete) / cinder blocks / stone / other (specify) _____

Basement sump present? *Yes* / (No) Sump pump? *Yes* / (No) Water in sump? *Yes* / (No)

Type of ~~heating system~~ (circle all that apply):

(hot air circulation)	hot air radiation	wood	steam radiation
~~heat pump~~	hot water radiation	kerosene heater	electric baseboard
other (specify): _____			

Type of ventilation system (circle all that apply):

(central air conditioning) mechanical fans bathroom ventilation fans individual air conditioning units kitchen range hood fan outside air intake
other (specify): _____

Type of fuel utilized (circle all that apply):
Natural gas / (electric) / fuel oil / wood / coal / solar / kerosene

Are the basement walls or floor sealed with waterproof paint or epoxy coatings? *Yes* / (*No*)

Is there a whole house fan? *Yes* / (*No*)

Septic system? *Yes / Yes (but not used)* / (*No*)

Irrigation/private well? (*Yes*) / *Yes (but not used) / No*

Type of ground cover outside of building: grass / (concrete) / (asphalt) / other (specify) walkway

Existing subsurface depressurization (radon) system in place? *Yes* / (*No*) *active / passive*

Sub-slab vapor/moisture barrier in place? *Yes* / (*No*)
Type of barrier: _____

Part III - Outside Contaminant Sources

Potential contaminated site (1000-ft. radius): Chemical storage tank/containment

Other stationary sources nearby (gas stations, emission stacks, etc.): Industrial area, railroad tracks north of property line

Heavy vehicular traffic nearby (or other mobile sources): mobile semi-trucks, rail cars

Part IV – Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor and room), and whether the item was removed from the building 48 hours prior to indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the commencement of the indoor air sampling event.

Potential Sources	Location(s)	Removed (Yes / No / NA)
Gasoline storage cans		
Gas-powered equipment		
Kerosene storage cans		
Paints / thinners / strippers		
Cleaning solvents	~~Pine-Sol~~	
Oven cleaners		
Carpet / upholstery cleaners		
Other house cleaning products	Pine-Sol	Yes.
Moth balls		
Polishes / waxes		
Insecticides		
Furniture / floor polish		
Nail polish / polish remover		
Hairspray		
Cologne / perfume		
Air fresheners	Renuzit™ (unused)	Yes
Fuel tank (inside building)		NA

Wood stove or fireplace		NA
New furniture / upholstery		
New carpeting / flooring		NA
Hobbies - glues, paints, etc.		

Part V – Miscellaneous Items

Do any occupants of the building smoke? *Yes* / (No) How often? _____

Last time someone smoked in the building? _____ hours / *days ago*

Does the building have an attached garage directly connected to living space? *Yes* / (No)

If so, is a car usually parked in the garage? *Yes / No*

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? *Yes / No*

Do the occupants of the building have their clothes dry cleaned? *Yes* / (No)

If yes, how often? weekly / monthly / 3-4 times a year

Do any of the occupants use solvents in work? (Yes) / ~~No~~

If yes, what types of solvents are used? Normal cleaning solvents by building cleaners (last cleaning date 4/23)

If yes, are their clothes washed at work? *Yes / No*

Have any pesticides/herbicides been applied around the building or in the yard? (Yes) No

If so, when and which chemicals? Round-Up (4/21)

Has there ever been a fire in the building? *Yes* / (No) If yes, when? _____

Has painting or staining been done in the building in the last 6 months? *Yes* / (No)

If yes, when _____ and where? _____

Has there been any remodeling done (flooring/carpeting) in the building in the last 6 months? *Yes* (No)

If yes, when _____ and where? _____

Part VI – Sampling Information

Sample Technician: Jered Newsom Phone number: (509) 899 - 4371

Sample Source: (Indoor Air) / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas / (Crawl space)

Sampler Type: Tedlar bag / Sorbent / (Stainless Steel Canister) / Other (specify): _____

Analytical Method: (TO-15) / TO-17 / other: _____ Cert. Laboratory: Pace

Sample locations (floor, room):

Field ID # IA - M - 20220511 Field ID # IA - DUP - 20220511

Field ID # CS - 20220511 Field ID # _____ - _____

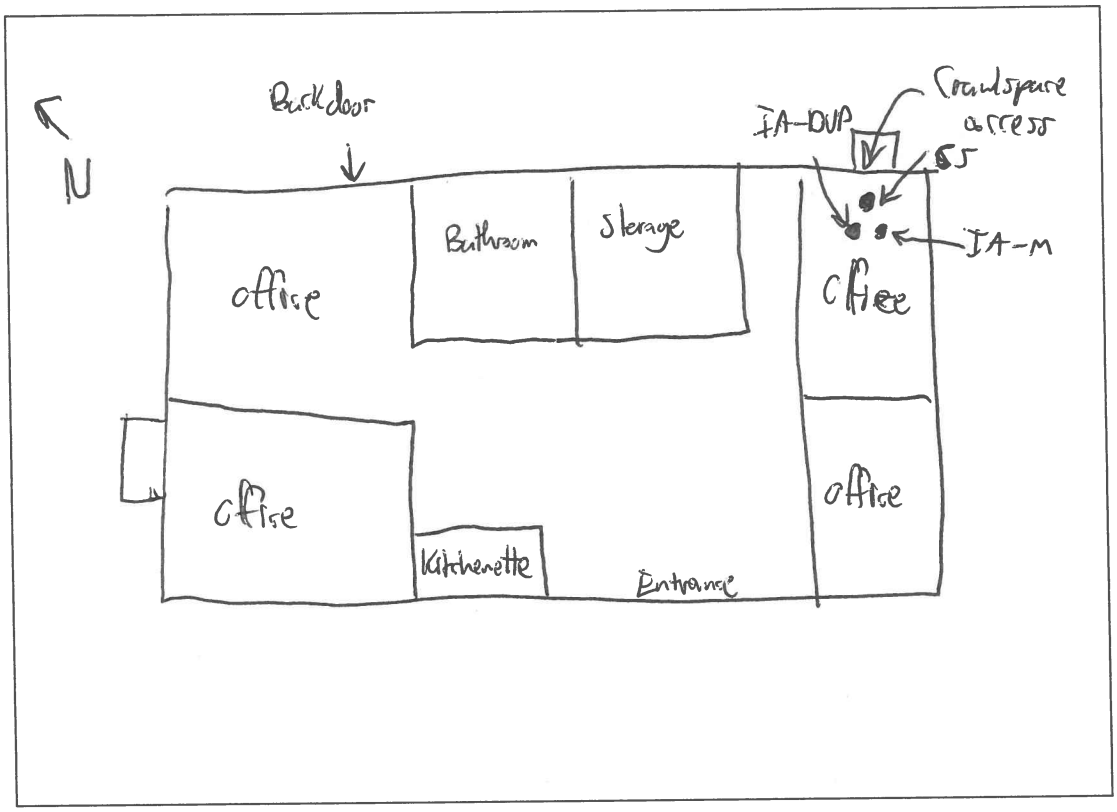
Were "Instructions for Occupants" followed? (Yes) / No

If not, describe modifications: _____

Additional Comments:

0.0 ppm VOCs detected with PID meter in all areas of building

Provide Drawing of Sample Location(s) in Building



Part VII - Meteorological Conditions

Was there significant precipitation within 12 hours prior to (or during) the sampling event? *Yes / No*

Describe the general weather conditions: _____

_____

Part VIII – General Observations

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process.

_____

_____

_____

(NJDEP 1997; NHDES 1998; VDOH 1993; MassDEP 2002; NYSDOH 2005; CalEPA 2005; OhioEPA 2015)

Instructions for Building Occupants Prior to Indoor Air Sampling

This form should be reviewed by building occupant personnel. Representatives will be collecting one or more indoor air samples from your building on _____ - beginning @ _____ and ending @ _____. Your assistance is requested during the sampling program in order to collect an indoor air sample that is both representative of indoor conditions and avoids the common background indoor air sources associated with occupant activities and consumer products.

Please follow the instructions below starting at least 48 hours (2 days) prior to and during the indoor air sampling event:

- ❑ Do operate your furnace and whole house air conditioner as appropriate for the current weather conditions
- ❑ Do not use wood stoves, fireplaces or auxiliary heating equipment
- ❑ Do not use window air conditioners, fans or vents
- ❑ Do not use paints or varnishes (up to a week in advance, if possible)
- ❑ Do not use cleaning products (e.g., bathroom cleaners, furniture polish, appliance cleaners, all-purpose cleaners, floor cleaners)
- ❑ Do not use hair spray, nail polish remover, perfume, etc.
- ❑ Do not store containers of gasoline, oil or solvents within an attached garage.
- ❑ Do not operate or store automobiles within an attached garage
- ❑ Do not open windows or keep doors open
- ❑ Do not smoke in the building
- ❑ Do not apply pesticides
- ❑ Do not use air fresheners or odor eliminators
- ❑ Do not engage in indoor hobbies that use solvents (e.g. gun cleaning)
- ❑ Do not operate gasoline powered equipment within the building, attached garage or around the immediate perimeter of the building
- ❑ Do not bring freshly dry cleaned clothes into the building

You will be asked a series of questions about the structure, consumer products you store in your building, and occupant activities typically occurring in the building. These questions are designed to identify "background" sources of indoor air contamination. While this investigation is looking for a select number of chemicals related to the known or suspected subsurface contamination, the laboratory will be analyzing the indoor air samples for a wide variety of chemicals. As a result, chemicals such as tetrachloroethene that is commonly used in dry cleaning or acetone, which is found in nail polish remover might be detected in your sample results.

Your cooperation is greatly appreciated. If you have any questions about these instructions, please feel free to

contact _____ at _____.

FIELD DATA FORM: SOIL GAS IMPLANT METHOD

PROJECT NAME: Simplot - Sunnyside Sample ID: SS-1-220511 / SS-DUP-220511

PROJECT NO.: 1030 2086 Sample Date: 5/11/22

Temperature: 88.7° (°F) / °C Barometric Pressure: 29.32 "Hg"

Has there been significant rain or snow recent to the sampling event? Yes (No)

If Yes to above question; Date(s) _____ Amount * _____ in. *(www.localconditions.com)

Location Description: _____ Surface Cover: _____

Subsurface Utilities and distance from probe: _____

Potential VOC sources in the vicinity? _____ Distance from probe: _____ ft.

Gas Probe / Implant Details

Soil Gas Probe / Implant Installation Method: Vapor Pin

Sample Zone Soil Type: (circle one): clay silt (sand) (gravel) other: _____

Apparent Moisture Content of Sampling Zone (circle one): (dry) moist wet (do not sample if saturated)

Borehole Diameter (in.) 5/8 Borehole Depth (ft.) 4-5"

Implant Depth (ft.) 3-4" Note: For nested points, add probe details in Comments section, below.

Sand Interval: N/A to N/A ft. Bentonite/Grout: N/A to _____ ft.

Water Source for bentonite hydration: _____ Deionized? yes (no)

Surface Completion / Protection: _____

Sample Purging

Equilibration time between probe installation and purging: 24 (hours)/days (48 hours recommended)

Sandpack/Granular Bentonite Pore Volume: N/A ml

Tubing Type: Teflon Tubing Length: 5 ft. Tubing Diameter: 1/4 inch

Purging Method: hand pump Pump Rate: 18 ml / ~~min~~ 5 Purging Duration: 1-2 min.

Volume Purged: 1000 ml (Refer to Table 2 on page 13 of guidance for assistance with calculating volume purged)

PID / FID at Initial Purge: 0.3 ppm PID / FID at Sample Collection: 0.0 ppm

Leak Test Prior to Sample Collection? (Yes) No Method water / clay

Helium Tracer Test Tracer Compound: Helium Instrument: Party balloon Tank

Tracer Concentration, Test 1 Shroud 14.2 ppm/(%) Probe 150 (ppm)/%

Tracer Concentration, Test 2 Shroud 6.9 ppm/(%) Probe 8 (ppm)/%

Tracer Concentration, Test 3 Shroud 3.0 ppm/(%) Probe 8 (ppm)/%

Vacuum Shut-in Test

Start Time: 2138 Vacuum: 20 "Hg Stop Time: 2142 Vacuum: 20 "Hg

Sample Collection

Sample Container (circle one): (1L) 6L Other: _____

Flow Controller (circle one): 100 ml/min (200 ml/min) Other: _____

Start Time: 2214 Vacuum: 38 "Hg Stop Time: 2219 Vacuum: 3/3 "Hg

Split Sample? (Yes) No Describe Split Method: T-fittings

Comments: Outside temp: 54°F, SS-1

Form Completed By: Jered Newcomb Date: 5/11/22

FIELD DATA FORM: SOIL GAS IMPLANT METHOD

PROJECT NAME: Simplot - Sunnyside Sample ID: SS-2-220511

PROJECT NO.: 1030 2086 Sample Date: 5/11/22

Temperature: 86.2 (°F) / °C Barometric Pressure: 29.31 "Hg*

Has there been significant rain or snow recent to the sampling event? Yes (No)

If Yes to above question; Date(s) _____ Amount * _____ in. *(www.localconditions.com)

Location Description: _____ Surface Cover: _____

Subsurface Utilities and distance from probe: _____

Potential VOC sources in the vicinity? _____ Distance from probe: _____ ft.

Gas Probe / Implant Details

Soil Gas Probe / Implant Installation Method: _____

Sample Zone Soil Type: (circle one): clay silt (sand) (gravel) other: _____

Apparent Moisture Content of Sampling Zone (circle one): (dry) moist wet (do not sample if saturated)

Borehole Diameter (in.) 5/8 Borehole Depth (ft.) 4-5'

Implant Depth (ft.) 3-4' Note: For nested points, add probe details in Comments section, below.

Sand Interval: _____ to _____ ft. Bentonite/Grout: _____ to _____ ft.

Water Source for bentonite hydration: _____ Deionized? yes (no)

Surface Completion / Protection: _____

Sample Purging

Equilibration time between probe installation and purging: 24 (hours)/days (48 hours recommended)

Sandpack/Granular Bentonite Pore Volume: N/A ml

Tubing Type: Teflon Tubing Length: 5 ft. Tubing Diameter: 1/4 inch

Purging Method: hand pump Pump Rate: 16 ml / ~~min~~ 5 Purging Duration: 1 min.

Volume Purged: 1000 ml (Refer to Table 2 on page 13 of guidance for assistance with calculating volume purged)

PID / FID at Initial Purge: 0.0 ppm PID / FID at Sample Collection: 0.0 ppm

Leak Test Prior to Sample Collection? (Yes) No Method clay / water

Helium Tracer Test Tracer Compound: Helium Instrument: Pielstra

Tracer Concentration, Test 1 Shroud 5 (ppm)/% Probe 400 (ppm)/%

Tracer Concentration, Test 2 Shroud 4 (ppm)/% Probe 250 (ppm)/%

Tracer Concentration, Test 3 Shroud 3 (ppm)/% Probe 450 (ppm)/%

Vacuum Shut-in Test

Start Time: 2042 Vacuum: 25 "Hg Stop Time: 2044 Vacuum: 25 "Hg

Sample Collection

Sample Container (circle one): (1L) 6L Other: _____

Flow Controller (circle one): 100 ml/min (200 ml/min) Other: _____

Start Time: 2058 Vacuum: 29 "Hg Stop Time: 2102 Vacuum: 2 "Hg

Split Sample? Yes (No) Describe Split Method: _____

Comments: Outside temp: 54° F, SS-2

Form Completed By: Jered Newsomb Date: 5/11/22

VAPOR SAMPLING DATA SHEET
SUB-SLAB AND INDOOR AIR

General Information

88.7°F, 29.31 inHg

Site Name / Address: ~~Simplot~~ Simplot-Sunnyside / 300 1st st. Sunnyside WA

Sampling Location / Address: ~~Same~~ NW of Warehouse
(if other than site address)

Contact Name: Jered Newcomb Phone: 509-899-4371

Laboratory & Analytical Method: TO-15 Method of Delivery: ☒ FedEx
(Courier, UPS, delivered by sampler, etc.)

Sampling Team Members: Jered Newcomb, Tyler Allen

Met with resident/business on (date) 5/10/2022 to provide information on VOC inventory and sampling cross-contamination concerns. If not, explain why:

Indoor Air Samples

Sample ID #: IA-WH20220511 Canister ID #: 007618 Regulator ID # 006466

Start: Date: 5/11/2022 Time: ~~2308~~ Initial canister vacuum: 30 mm Hg

End: Date: 5/12/2022 Time: 0841 Final canister vacuum: 4 mm Hg

Regulator Calibrated for: 8 hr X 24 hr ____ grab (no regulator) ____

Canister/ Regulator Leak Checked: Yes ____ No ____ @ Lab

Sub-Slab Samples

N/A

Sample ID #: ____ Canister ID #: ____ Regulator ID # ____

Size of canister: ____ Thickness of sub-slab (inches) ____ Port install time: ____

Sampling Start: Date: ____ Time: ____ Initial canister vacuum: ____ mm Hg

Sampling End: Date: ____ Time: ____ Final canister vacuum: ____ mm Hg

Regulator Calibrated for: 8 hr ____ 24 hr ____ grab (no regulator) ____

Canister/ Regulator Leak Checked: Yes No Sub-Slab Port Leak Checked: Yes No

Type of sub-slab port: Swagelok ____ Vapor Pin: ____

Sub-Slab Port Installed by: ____ Sub-Slab Port Sealed: Yes No

PID Reading: VOC ppb ____ % 02 ____ PID ID#: ____

NOTES: (sampler/canister problems, other significant sampling details, or FSOP deviations)

Note: If a diagram of the sample location(s) is sketched on the back of this data sheet, check here ☑

VAPOR SAMPLING DATA SHEET
SUB-SLAB AND INDOOR AIR

General Information

Site Name / Address: Simplot - Sunnyside / 300 1st St. Sunnyside WA

Sampling Location / Address: SW of Warehouse
(if other than site address)

Contact Name: Jered Newcomb Phone: 509-899-4371

Laboratory & Analytical Method: TO-15 Method of Delivery: FedEx
(Courier, UPS, delivered by sampler, etc.)

Sampling Team Members: Jered Newcomb, Tyler Allen

Met with resident/business on (date) 5/10/2022 to provide information on VOC inventory and sampling cross-contamination concerns. If not, explain why: _____

Indoor Air Samples

Sample ID #: IA-W2-20220511 Canister ID #: 011871 Regulator ID # 007824

Start: Date: 5/11/2022 Time: 2310 Initial canister vacuum: 30 mm Hg

End: Date: 5/12/2022 Time: 0650 Final canister vacuum: 4 mm Hg

Regulator Calibrated for: 8 hr X 24 hr _____ grab (no regulator) _____

Canister/ Regulator Leak Checked: Yes _____ No _____ @ Lab

Sub-Slab Samples

Sample ID #: _____ Canister ID #: _____ Regulator ID # _____

Size of canister: _____ Thickness of sub-slab (inches) _____ Port install time: _____

Sampling Start: Date: _____ Time: _____ Initial canister vacuum: _____ mm Hg

Sampling End: Date: _____ Time: _____ Final canister vacuum: _____ mm Hg

Regulator Calibrated for: 8 hr _____ 24 hr _____ grab (no regulator) _____

Canister/ Regulator Leak Checked: Yes No Sub-Slab Port Leak Checked: Yes No

Type of sub-slab port: Swagelok _____ Vapor Pin: _____

Sub-Slab Port Installed by: _____ Sub-Slab Port Sealed: Yes No

PID Reading: VOC ppb _____ % 02 _____ PID ID#: _____

NOTES: (sampler/canister problems, other significant sampling details, or FSOP deviations)

Note: If a diagram of the sample location(s) is sketched on the back of this data sheet, check here ☑

VAPOR SAMPLING DATA SHEET
SUB-SLAB AND INDOOR AIR

General Information

89.6°F 29.33 inHg

Site Name / Address: Simplot-Sunnyside / 300 1st St. Sunnyside WA

Sampling Location / Address: Modular building
(if other than site address)

Contact Name: Jered Newcomb Phone: 509-899-4371

Laboratory & Analytical Method: TO-15 Method of Delivery: FedEx
(Courier, UPS, delivered by sampler, etc.)

Sampling Team Members: Jered Newcomb, Tyler Allen

Met with resident/business on (date) 5/10/2022 to provide information on VOC inventory and sampling cross-contamination concerns. If not, explain why: _____

Indoor Air Samples

Sample ID #: IA-M-20220511 Canister ID #: [redacted]12228 Regulator ID # 008419

Start: Date: 5/11/2022 Time: 2320 Initial canister vacuum: 30 mm Hg

End: Date: 5/12/2022 Time: 710 Final canister vacuum: 3 mm Hg

Regulator Calibrated for: 8 hr X 24 hr ____ grab (no regulator) ____

Canister/ Regulator Leak Checked: Yes ____ No ____ @Lab

Sub-Slab Samples

Sample ID #: _____ Canister ID #: _____ Regulator ID # _____

Size of canister: _____ Thickness of sub-slab (inches) _____ Port install time: _____

Sampling Start: Date: _____ Time: _____ Initial canister vacuum: _____ mm Hg

Sampling End: Date: _____ Time: _____ Final canister vacuum: _____ mm Hg

Regulator Calibrated for: 8 hr ____ 24 hr ____ grab (no regulator) ____

Canister/ Regulator Leak Checked: Yes No Sub-Slab Port Leak Checked: Yes No

Type of sub-slab port: Swagelok _____ Vapor Pin: _____

Sub-Slab Port Installed by: _____ Sub-Slab Port Sealed: Yes No

PID Reading: VOC ppb _____ % 02 _____ PID ID#: _____

NOTES: (sampler/canister problems, other significant sampling details, or FSOP deviations)

Note: If a diagram of the sample location(s) is sketched on the back of this data sheet, check here ☐

VAPOR SAMPLING DATA SHEET
SUB-SLAB AND INDOOR AIR

General Information

89.6°F 29.33 inHg

Site Name / Address: Simplot - Sunnyside / 300 1st St. Sunnyside WA

Sampling Location / Address: Modular building
(if other than site address)

Contact Name: Jered Newcomb Phone: 509-899-4371

Laboratory & Analytical Method: TO-15 Method of Delivery: FedEx
(Courier, UPS, delivered by sampler, etc.)

Sampling Team Members: Jered Newcomb

Met with resident/business on (date) 5/10/2022 to provide information on VOC inventory and sampling cross-contamination concerns. If not, explain why: _____

Indoor Air Samples

Sample ID #: IA-DUP-20220511 Canister ID #: 020008 Regulator ID # 005883

Start: Date: 5/11/2022 Time: 2330 Initial canister vacuum: 30 mm Hg

End: Date: 5/12/2022 Time: 715 Final canister vacuum: 3 mm Hg

Regulator Calibrated for: 8 hr X 24 hr _____ grab (no regulator) _____

Canister/ Regulator Leak Checked: Yes _____ No _____ @Lab

Sub-Slab Samples

Sample ID #: _____ Canister ID #: _____ Regulator ID # _____

Size of canister: _____ Thickness of sub-slab (inches) _____ Port install time: _____

Sampling Start: Date: _____ Time: _____ Initial canister vacuum: _____ mm Hg

Sampling End: Date: _____ Time: _____ Final canister vacuum: _____ mm Hg

Regulator Calibrated for: 8 hr _____ 24 hr _____ grab (no regulator) _____

Canister/ Regulator Leak Checked: Yes No Sub-Slab Port Leak Checked: Yes No

Type of sub-slab port: Swagelok _____ Vapor Pin: _____

Sub-Slab Port Installed by: _____ Sub-Slab Port Sealed: Yes No

PID Reading: VOC ppb _____ % 02 _____ PID ID#: _____

NOTES: (sampler/canister problems, other significant sampling details, or FSOP deviations)

Note: If a diagram of the sample location(s) is sketched on the back of this data sheet, check here ☑

VAPOR SAMPLING DATA SHEET
SUB-SLAB AND INDOOR AIR

General Information

56.7°F 29.33 in Hg

Site Name / Address: Simplot-Sunnyside / 300 1st St. Sunnyside WA

Sampling Location / Address: Crawl space of modular building
(if other than site address)

Contact Name: Jered Newcomb Phone: 509-899-4371

Laboratory & Analytical Method: TO-15 Method of Delivery: Fed Ex
(Courier, UPS, delivered by sampler, etc.)

Sampling Team Members: Jered Newcomb, Tyler Allen

Met with resident/business on (date) 5/10/2022 to provide information on VOC inventory and sampling cross-contamination concerns. If not, explain why: _____

Indoor Air Samples

Sample ID #: [redacted]-20220511 Canister ID #: 012207 Regulator ID # 005882

Start: Date: 5/11/2022 Time: 2340 Initial canister vacuum: 30 mm Hg

End: Date: 5/12/2022 Time: 725 Final canister vacuum: 0 mm Hg

Regulator Calibrated for: 8 hr X 24 hr _____ grab (no regulator) _____

Canister/ Regulator Leak Checked: Yes _____ No _____ @ Lab

Sub-Slab Samples

Sample ID #: _____ Canister ID #: _____ Regulator ID # _____

Size of canister: _____ Thickness of sub-slab (inches) _____ Port install time: _____

Sampling Start: Date: _____ Time: _____ Initial canister vacuum: _____ mm Hg

Sampling End: Date: _____ Time: _____ Final canister vacuum: _____ mm Hg

Regulator Calibrated for: 8 hr _____ 24 hr _____ grab (no regulator) _____

Canister/ Regulator Leak Checked: Yes No Sub-Slab Port Leak Checked: Yes No

Type of sub-slab port: Swagelok _____ Vapor Pin: _____

Sub-Slab Port Installed by: _____ Sub-Slab Port Sealed: Yes No

PID Reading: VOC ppb _____ % 02 _____ PID ID#: _____

NOTES: (sampler/canister problems, other significant sampling details, or FSOP deviations)

Note: If a diagram of the sample location(s) is sketched on the back of this data sheet, check here ☐

VAPOR SAMPLING DATA SHEET
SUB-SLAB AND INDOOR AIR

General Information

Site Name / Address: Simplot - Sunnyside / 300 1st St. Sunnyside WA

Sampling Location / Address: ~~Outside~~ Outside near gate access
(if other than site address)

Contact Name: Jered Newcomb **Phone:** _____

Laboratory & Analytical Method: _____ **Method of Delivery:** _____
(Courier, UPS, delivered by sampler, etc.)

Sampling Team Members: _____

Met with resident/business on (date) 5/10/2022 **to provide information on VOC inventory and sampling cross-contamination concerns. If not, explain why:** _____

Indoor Air Samples

Sample ID #: AMB-20220512 **Canister ID #:** 010400 **Regulator ID #** 01554 ~~01249~~

Start: Date: 5/12/2022 **Time:** ~~0945~~ 0735 **Initial canister vacuum:** 28 **mm Hg**

End: Date: 5/12/2022 **Time:** _____ **Final canister vacuum:** 3 **mm Hg**

Regulator Calibrated for: 8 hr ~~X~~ **24 hr** _____ **grab (no regulator)** X

Canister/ Regulator Leak Checked: Yes _____ **No** _____ @ Lab

Sub-Slab Samples

Sample ID #: _____ **Canister ID #:** _____ **Regulator ID #** _____

Size of canister: _____ **Thickness of sub-slab (inches)** _____ **Port install time:** _____

Sampling Start: Date: _____ **Time:** _____ **Initial canister vacuum:** _____ **mm Hg**

Sampling End: Date: _____ **Time:** _____ **Final canister vacuum:** _____ **mm Hg**

Regulator Calibrated for: 8 hr _____ **24 hr** _____ **grab (no regulator)** _____

Canister/ Regulator Leak Checked: Yes No **Sub-Slab Port Leak Checked: Yes No**

Type of sub-slab port: Swagelok _____ **Vapor Pin:** _____

Sub-Slab Port Installed by: _____ **Sub-Slab Port Sealed: Yes No**

PID Reading: VOC ppb _____ **% 02** _____ **PID ID#:** _____

NOTES: (sampler/canister problems, other significant sampling details, or FSOP deviations)

Note: If a diagram of the sample location(s) is sketched on the back of this data sheet, check here ☐

	
Photo 1. View of northeast side of warehouse building facing southwest. Photo taken on 5/11/2022.	**Photo 2. View of warehouse building interior facing west. Photo taken on 5/11/2022.**
	
Photo 3. View of vapor pin installed in warehouse floor slab. Photo taken on 5/11/2022.	**Photo 4. View of subslab vapor sample collection in warehouse. Photo taken on 5/11/2022.**

Photo 5. View of subslab vapor samples in 6-liter summa cannisters. Photo taken on 5/11/2022.

Photo 6. View of indoor air sample collected in 6-liter summa cannister inside warehouse. Photo taken on 5/11/2022.

Photo 7. View of indoor air samples collected from warehouse in 6-liter summa cannisters. Photo taken on 5/11/2022.

Photo 8. View of southwest side of modular office building exterior facing northeast. Photo taken on 5/11/2022.

	
Photo 9. View of indoor air sample and duplicate sample collected from modular office building interior. Photo taken on 5/11/2022.	**Photo 10. View of crawl space air sample collected from crawl space under the modular office building. Photo taken on 5/11/2022.**
	
Photo 11. View of ambient air sample collected outside on fence between warehouse and modular office building. Photo taken on 5/11/2022.	**Photo 12. View of ground penetrating radar equipment used during geophysical survey. Photo taken on 8/16/2022.**

	
Photo 13. View of geophysical survey conducted on site. Photo taken on 8/16/2022.	**Photo 14. View of soil surface staining observed in the northeast corner of the site. Photo taken on 8/15/2022.**
	
Photo 15. View of representative soil boring collected during Phase 3 soil sampling activities. Photo taken on 8/23/2022.	**Photo 16. View of representative soil boring collected during Phase 3 soil sampling activities. Photo taken on 8/24/2022.**

	
Photo 17. View of representative soil boring collected during Phase 3 soil sampling activities. Photo taken on 8/24/2022.	**Photo 18. View of bore holes advanced near northeast corner of warehouse during Phase 3 soil sampling activities. Photo taken on 8/26/2022.**
	
Photo 19. View of bore holes advanced near northern site boundary during Phase 3 soil sampling activities. Photo taken on 8/26/2022.	**Photo 20. View of investigative derived waste drums from remedial investigation activities.**

August 26, 2022 HDR 2022-08-26 (TDEMI GPR DC)

RE: GEOPHYSICAL SITE INVESTIGATION TDEMI, GPR, DC - 300 S 1ST ST. SUNNYSIDE, WA

Based on the project objective to screen the site for suspect UST's, buried debris, utilities, and other unknown aspects of the site, a time domain electromagnetic induction (TDEMI/Geonics EM61) and ground penetrating radar (GPR) surveys were performed. In addition, two DC resistivity tests were performed to characterize soil electrical properties to a depth of 40 ft.

Introduction

Locating underground storage tanks, buried waste, debris, drums, foundations, and utilities are among the most popular applications of geophysics. Basic questions relating to the location and distribution of waste and objects can typically be addressed in a straightforward manner with confident results. Most often, magnetic field, electromagnetic induction (EMI), and/or ground penetrating radar (GPR) surveys are performed depending on the project objective and site conditions.

To screen the site for suspect UST's, buried debris, utilities, and other unknown aspects of the site, a time domain electromagnetic induction (TDEMI/Geonics EM61) and ground penetrating radar (GPR) surveys were performed.

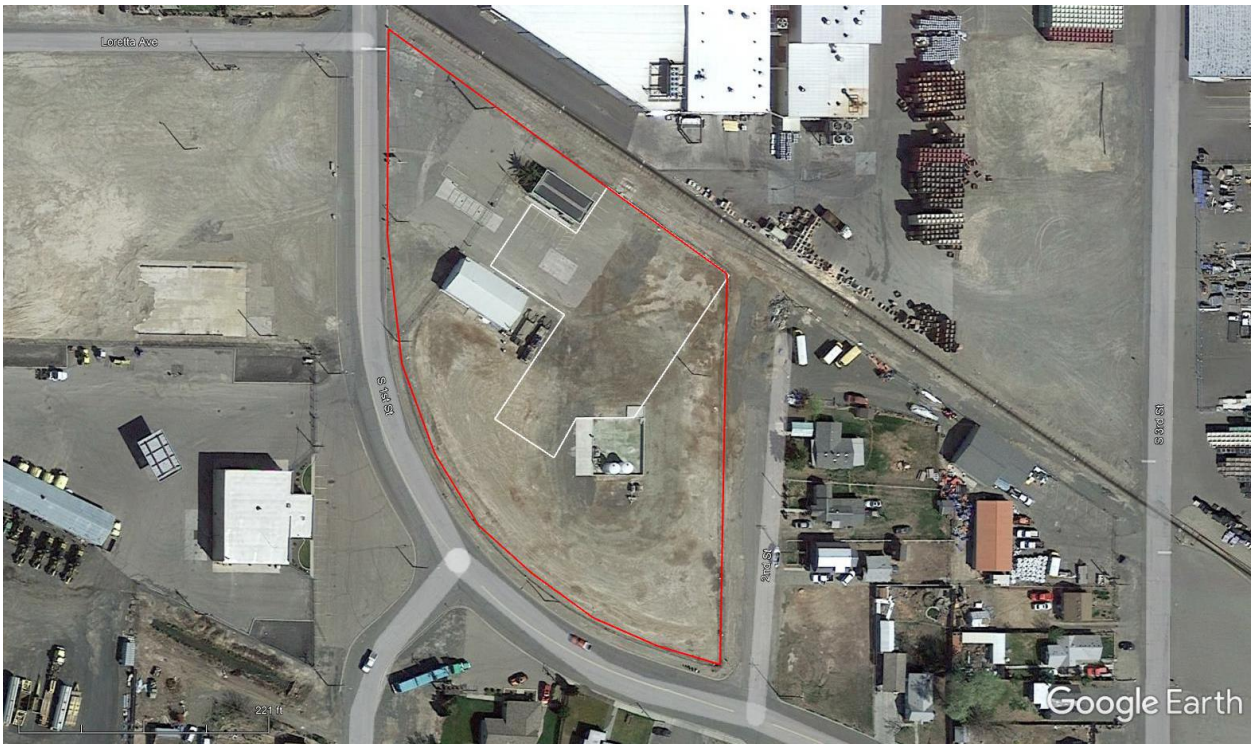


Figure 1. Project area. GPR survey area (white)

Conclusions

1) no evidence of UST(s) found
2) limited areas of buried debris
3) unknown utility identified
4) disturbed/debris zone (TDEMI and GPR)

Scope and Technical Approach

Geonics EM-61 (TDEMI)

TDEMI methods are very sensitive, provide high spatial resolution, and perform well in a wide range of soil conditions. Mapping the location of even a very small amount of metal is a reliable approach to mapping the distribution buried debris on a site. An electromagnetic response in generated by inducing current into the ground using a square wave pulse. The imposed field is then removed and the responding field decay is measured and recorded. The amplitude of the response is proportional to the surface area of metal present within the field of influence. The signal amplitude and location are recorded and a map showing the distribution of metal, both surface and buried found at the site is produced.

Figure 2. Geonic EM61 Time Domain Metal Electromagnetic Induction Metal Detector TDEMI)

Sage Earth Science surveyed the subject area on an 8" data spacing by 40" profile spacing (0.2 meter data spacing by 1 meter profile spacing) data grid resulting in a high-resolution map showing the distribution of metal debris both surface and buried.

Ground Penetrating Radar

The GPR method utilizes a reflected electromagnetic pulse to identify subsurface features. An impulse is transmitted from an antenna on the surface. The impulse is then reflected off underground features and objects with electrical properties that vary from the surrounding materials such as metal, non-metal objects, utilities, geologic contrasts, and voids. The reflected pulse is received back at the surface and is recorded and displayed for analysis.

Using a Geophysical Survey Systems SIR-2000 and 400 MHz antenna, profiles were acquired across a portion of the site as shown if figure 1. Profiles were spaced 1 meter apart providing virtually continuous coverage in the survey area

Results

The following map shows the distribution of metal both surface and buried. Yellow/green show areas of low signal response. Red/maroon shows areas of high amplitude response indicating the presence of metal. Significant features are annotated

Glen Carpenter / principal

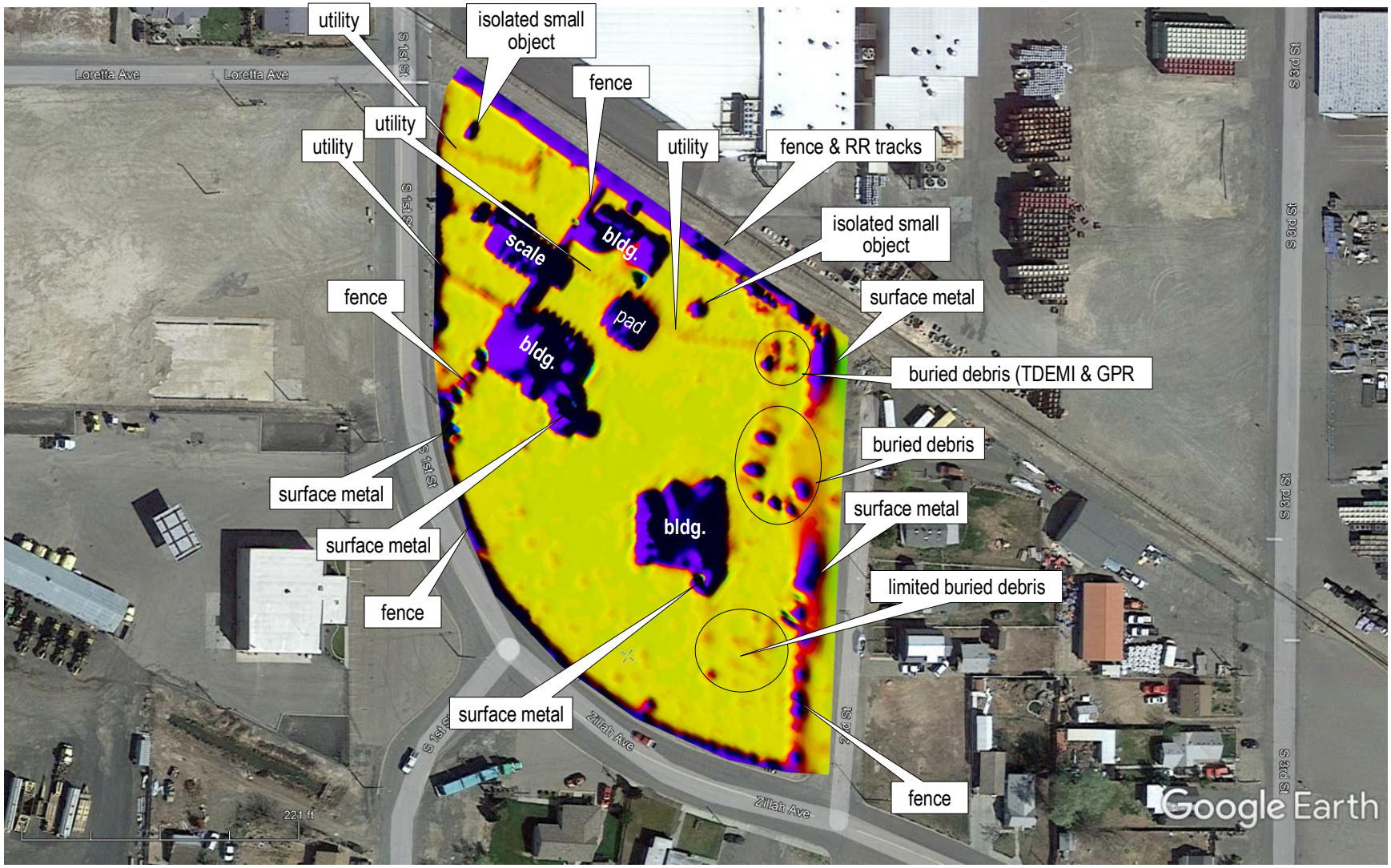


Figure 3. TDEMI anomaly map (0% transparency)

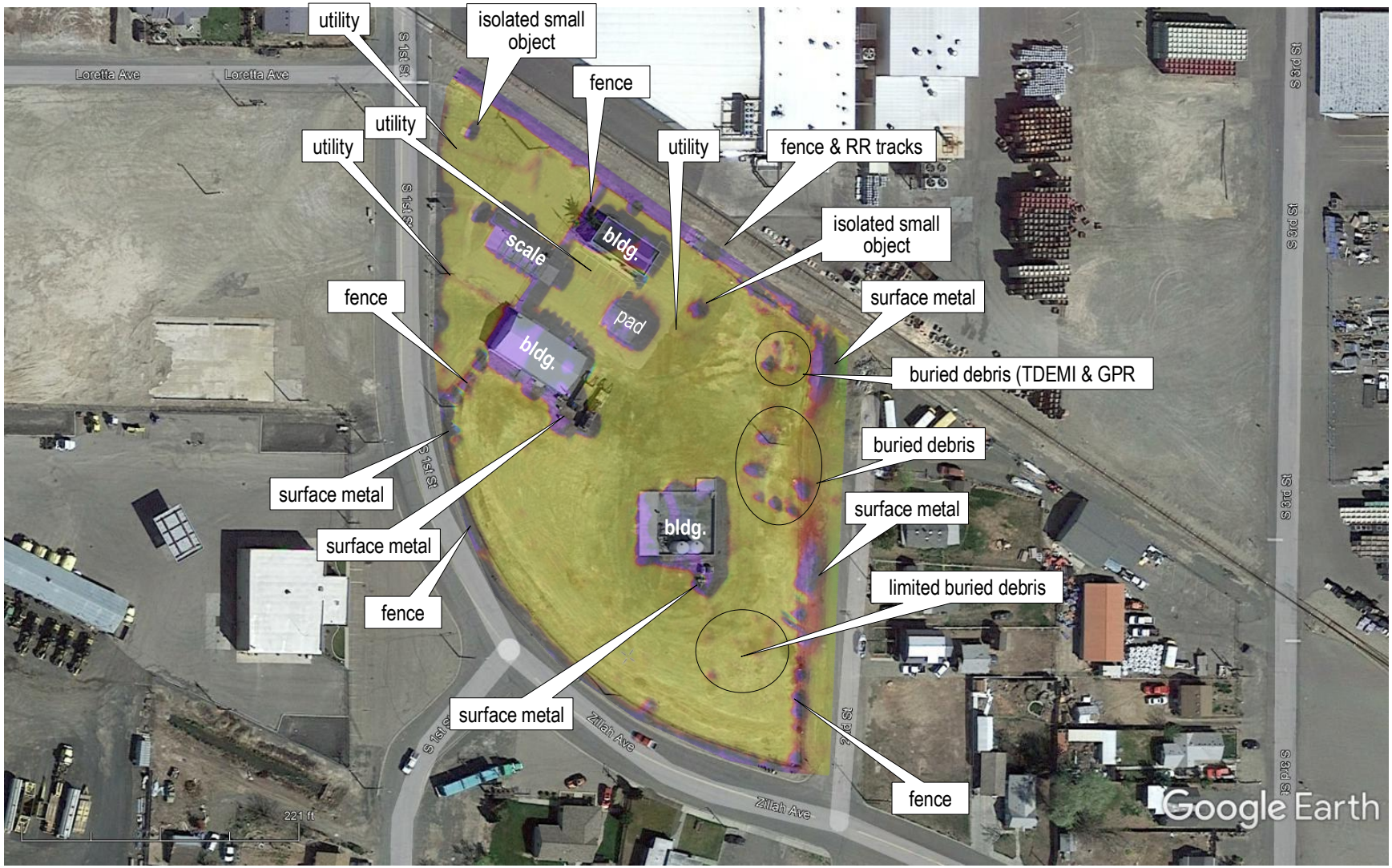


Figure 4. TDEMI anomaly map (70% transparency)

Figure 5. TDEMI anomaly map (100% transparency)

Representative/significant GPR profile (concrete pad)

Figure 6 GPR profile location (red)

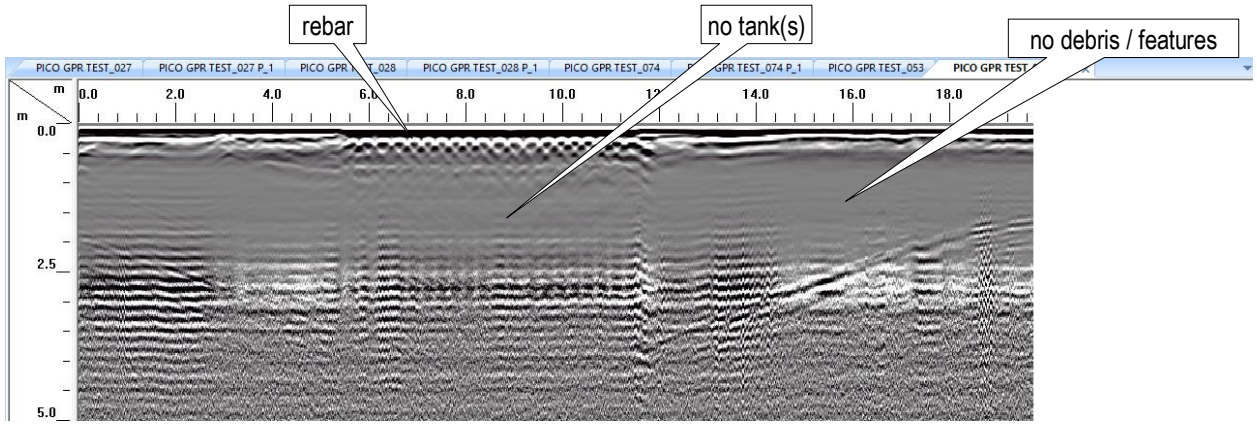
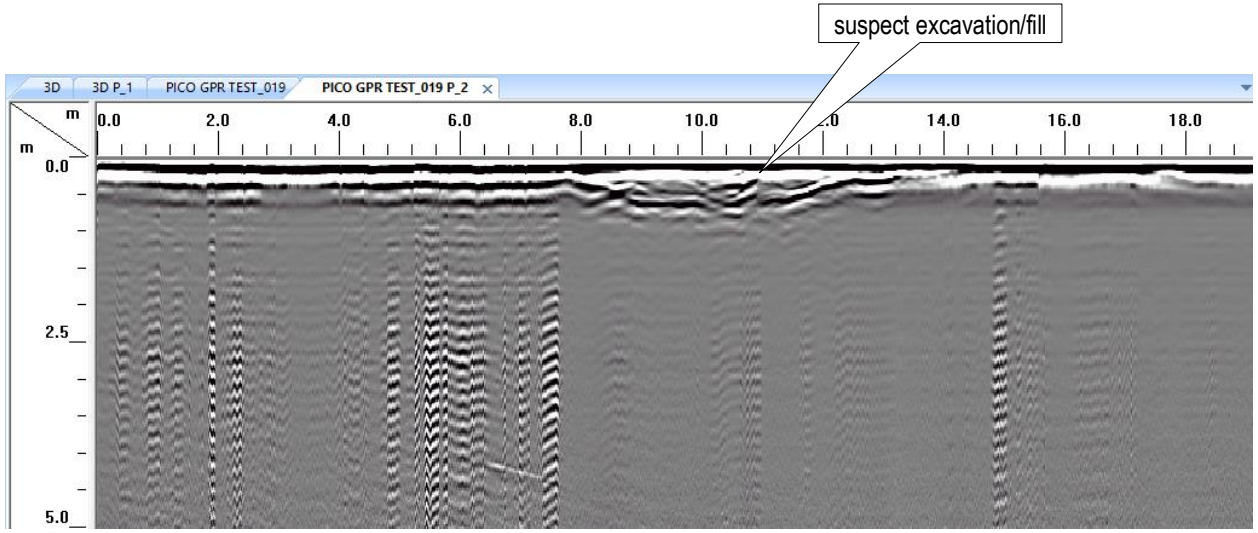


Figure 7. Concrete pad (rebar, no tank beneath pad)

Representative/significant GPR profile (suspect excavation)

Figure 8. GPR profile location (red)

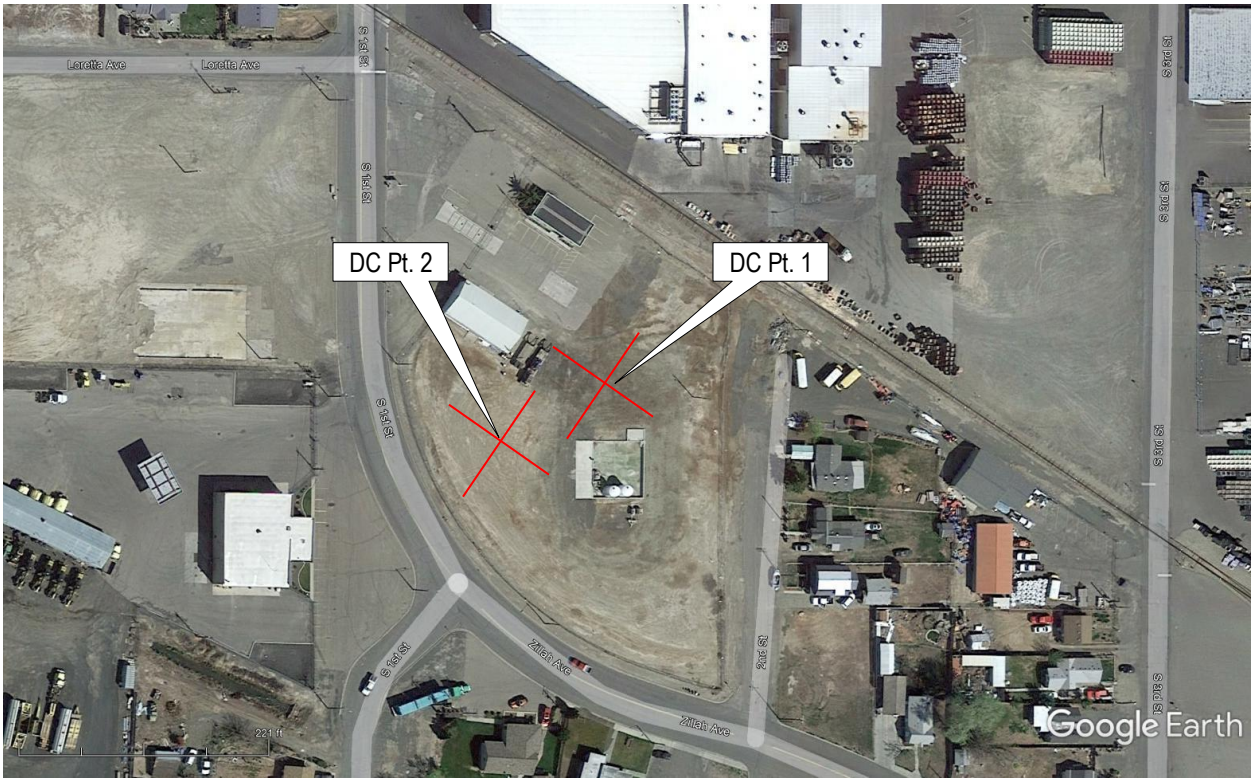


In Situ Soil Resistivity Tests (Wenner 4-pin)

Resistivity properties are obtained by introducing a DC or low frequency electrical current into the ground and measuring the potential drop between electrodes over a range of electrode spacings. Sage Earth Science conducted 2 in-situ earth resistivity tests at the site. At each test location, measurements over a range of spacings were made and in accordance IEEE and ASTM standards for performing Wenner 4-pin resistivity measurements and Sage Earth Science Standard Operating Procedures were performed. For each test location, two perpendicular arrays were conducted.

Sage Earth Science Standard Operating Procedures (SOP's) call for daily field calibration checks using a series of standard calibrated resistors. Procedures outline the recommended practice regarding selection of the test location and array alignment. According to procedure, both potential and current cables are fully removed from storage spools to prevent inductive resistance within current cables and to enhance field logistics handling both current and potential cables. Care is taken to maintain a separation of 5-10 feet between current and potential cables. Maximum pin depth is maintained to less than 10% of pin spacing. Procedures outline recommended practices if electrode contact resistance is excessively high. Steps can include wetting of electrodes and the placement of multiple closely spaced electrodes. Such steps are typically only required at very large pin spacing or with very high contact resistance and were not used at this site.

Test locations were positioned to avoid known utilities, buried debris, and concrete or asphalt surfaces. Test measurements were performed using an L&R Ultra MiniRes.



SAGE EARTH SCIENCE
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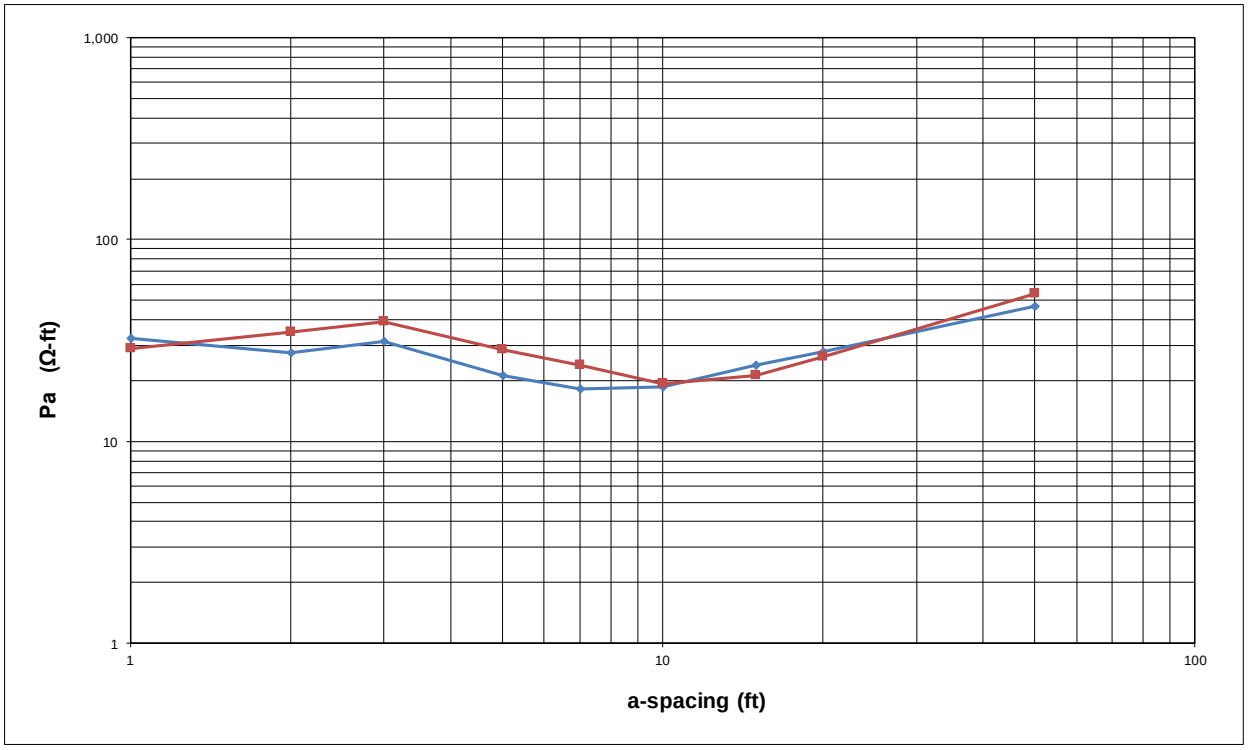
Project	**Sunnyside, WA**		Test Point	**1**	
Date	**8/16/2022**	Temp (°f)	88	Calib	**18.999 Ω / 19.00 Ω (±1%)**
Time	**1300**	Operator	**GSC**	Calib	**1900 Ω / 1900 milli Ω (±1%)**
array	**Wenner**	**(ρa=2πRa)**		Calib	**190.0 Ω / 190.0 milli Ω (±1%)**
weather	**clear calm**		Model - S/N	**L&R MiniRes s/n 103**	
			Precip previous 7 days	**0 inches**	

		array orientation	N/S		E/W		
a-spc (ft)	**mn/2**	**ab/2**	**Ω - R**	***ρa Ω-ft***	**Ω - R**	***ρa Ω-ft***	**comment**
1	**0.5**	**1.5**	**5.162**	**32.4**	**4.571**	**28.7**	
2	**1**	**3**	**2.185**	**27.5**	**2.772**	**34.8**	
3	**1.5**	**4.5**	**1.653**	**31.2**	**2.074**	**39.1**	
5	**2.5**	**7.5**	**0.673**	**21.1**	**0.903**	**28.4**	
7	**3.5**	**10.5**	**0.415**	**18.3**	**0.542**	**23.8**	
10	**5**	**15**	**0.296**	**18.6**	**0.308**	**19.4**	
15	**7.5**	**22.5**	**0.252**	**23.8**	**0.226**	**21.3**	
20	**10**	**30**	**0.222**	**27.9**	**0.208**	**26.1**	
50	**25**	**75**	**0.149**	**46.8**	**0.171**	**53.7**	

Comments (surface conditions, soil grain size, topography, foliage, electrode contact etc.)
flat, compacted, graded, rocky surface with fine grained material immediately beneath
generally very good electrode plants



SAGE EARTH SCIENCE
GEOPHYSICAL SURVEYS

Project	**Sunnyside, WA**		Test Point	**2**	
Date	**8/16/2022**	Temp (°f)	90	Calib	**18.999 Ω / 19.00 Ω (±1%)**
Time	**1400**	Operator	**GSC**	Calib	**1900 Ω / 1900 milli Ω (±1%)**
array	**Wenner**	**(ρa=2πRa)**		Calib	**190.0 Ω / 190.0 milli Ω (±1%)**
weather	**clear calm**		Model - S/N	**L&R MiniRes s/n 103**	
			Precip previous 7 days	**0 inches**	

		array orientation	N/S		E/W		
a-spc (ft)	**mn/2**	**ab/2**	**Ω - R**	***ρa Ω-ft***	**Ω - R**	***ρa Ω-ft***	**comment**
1	**0.5**	**1.5**	**5.333**	**33.5**	**5.127**	**32.2**	
2	**1**	**3**	**3.373**	**42.4**	**3.844**	**48.3**	
3	**1.5**	**4.5**	**2.436**	**45.9**	**2.552**	**48.1**	
5	**2.5**	**7.5**	**1.444**	**45.4**	**1.440**	**45.2**	
7	**3.5**	**10.5**	**1.052**	**46.3**	**1.083**	**47.6**	
10	**5**	**15**	**0.767**	**48.2**	**0.848**	**53.3**	
15	**7.5**	**22.5**	**0.588**	**55.4**	**0.670**	**63.1**	
20	**10**	**30**	**0.493**	**62.0**	**0.505**	**63.5**	
50	**25**	**75**	**0.233**	**73.2**	**0.243**	**76.3**	

Comments (surface conditions, soil grain size, topography, foliage, electrode contact etc.)
flat, compacted, graded, rocky surface with fine grained material immediately beneath
generally very good electrode plants