

Appendix A

Air Quality and Greenhouse Gas Emissions Modeling Results

Nike Site Demolition Project - Alameda County, Annual

Nike Site Demolition Project

Alameda County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Recreational	0.00	User Defined Unit	1.43	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	63
Climate Zone	5			Operational Year	2021
Utility Company	Modesto Irrigation District				
CO2 Intensity (lb/MWhr)	833.46	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 1.43 acres of county land

Construction Phase - Require 1 week to demolish

Demolition - 1,386 demo building

Land Use Change -

Operational Off-Road Equipment -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	7.00
tblLandUse	LotAcreage	0.00	1.43

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2.0 Emissions Summary**2.1 Overall Construction****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	7.6200e-003	0.0743	0.0526	9.0000e-005	1.0900e-003	4.0400e-003	5.1300e-003	2.1000e-004	3.7700e-003	3.9800e-003	0.0000	7.9232	7.9232	1.9200e-003	0.0000	7.9711
Maximum	7.6200e-003	0.0743	0.0526	9.0000e-005	1.0900e-003	4.0400e-003	5.1300e-003	2.1000e-004	3.7700e-003	3.9800e-003	0.0000	7.9232	7.9232	1.9200e-003	0.0000	7.9711

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	7.6200e-003	0.0743	0.0526	9.0000e-005	1.0900e-003	4.0400e-003	5.1300e-003	2.1000e-004	3.7700e-003	3.9800e-003	0.0000	7.9232	7.9232	1.9200e-003	0.0000	7.9710
Maximum	7.6200e-003	0.0743	0.0526	9.0000e-005	1.0900e-003	4.0400e-003	5.1300e-003	2.1000e-004	3.7700e-003	3.9800e-003	0.0000	7.9232	7.9232	1.9200e-003	0.0000	7.9710

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[illegible]

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	0.0753	0.0753
		Highest	0.0753	0.0753

2.2 Overall Operational

Unmitigated Operational

[illegible]

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2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	1/9/2020	5	7	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0**Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****Offroad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	6.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 Demolition - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.8000e-004	0.0000	6.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4400e-003	0.0733	0.0513	8.0000e-005		4.0300e-003	4.0300e-003		3.7700e-003	3.7700e-003	0.0000	7.3737	7.3737	1.9000e-003	0.0000	7.4211
Total	7.4400e-003	0.0733	0.0513	8.0000e-005	6.8000e-004	4.0300e-003	4.7100e-003	1.0000e-004	3.7700e-003	3.8700e-003	0.0000	7.3737	7.3737	1.9000e-003	0.0000	7.4211

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	8.7000e-004	1.5000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.2297	0.2297	1.0000e-005	0.0000	0.2300
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.2000e-004	1.1900e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3198	0.3198	1.0000e-005	0.0000	0.3200
Total	1.9000e-004	9.9000e-004	1.3400e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.5495	0.5495	2.0000e-005	0.0000	0.5500

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3.2 Demolition - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.8000e-004	0.0000	6.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4400e-003	0.0733	0.0513	8.0000e-005		4.0300e-003	4.0300e-003		3.7700e-003	3.7700e-003	0.0000	7.3737	7.3737	1.9000e-003	0.0000	7.4211
Total	7.4400e-003	0.0733	0.0513	8.0000e-005	6.8000e-004	4.0300e-003	4.7100e-003	1.0000e-004	3.7700e-003	3.8700e-003	0.0000	7.3737	7.3737	1.9000e-003	0.0000	7.4211

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	8.7000e-004	1.5000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.2297	0.2297	1.0000e-005	0.0000	0.2300
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.2000e-004	1.1900e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3198	0.3198	1.0000e-005	0.0000	0.3200
Total	1.9000e-004	9.9000e-004	1.3400e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.5495	0.5495	2.0000e-005	0.0000	0.5500

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Recreational	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Recreational	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Recreational	0.559358	0.040058	0.190549	0.109335	0.016678	0.005213	0.023344	0.044042	0.002152	0.002669	0.005545	0.000316	0.000739

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

[illegible]

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5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

Mitigated

[illegible]

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

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[illegible]

6.2 Area by SubCategory

Unmitigated

[illegible]

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6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Recreational	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Recreational	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

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8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Nike Site Demolition Project - Alameda County, Winter

Nike Site Demolition Project

Alameda County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Recreational	0.00	User Defined Unit	1.43	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	63
Climate Zone	5			Operational Year	2021
Utility Company	Modesto Irrigation District				
CO2 Intensity (lb/MWhr)	833.46	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 1.43 acres of county land

Construction Phase - Require 1 week to demolish

Demolition - 1,386 demo building

Land Use Change -

Operational Off-Road Equipment -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	7.00
tblLandUse	LotAcreage	0.00	1.43

Nike Site Demolition Project - Alameda County, Winter

2.0 Emissions Summary**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.1832	21.2335	15.0536	0.0258	0.3167	1.1540	1.4707	0.0620	1.0776	1.1395	0.0000	2,493.804 4	2,493.804 4	0.6034	0.0000	2,508.888 1
Maximum	2.1832	21.2335	15.0536	0.0258	0.3167	1.1540	1.4707	0.0620	1.0776	1.1395	0.0000	2,493.804 4	2,493.804 4	0.6034	0.0000	2,508.888 1

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.1832	21.2335	15.0536	0.0258	0.3167	1.1540	1.4707	0.0620	1.0776	1.1395	0.0000	2,493.804 4	2,493.804 4	0.6034	0.0000	2,508.888 1
Maximum	2.1832	21.2335	15.0536	0.0258	0.3167	1.1540	1.4707	0.0620	1.0776	1.1395	0.0000	2,493.804 4	2,493.804 4	0.6034	0.0000	2,508.888 1

Nike Site Demolition Project - Alameda County, Winter

[illegible]

Nike Site Demolition Project - Alameda County, Winter

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Nike Site Demolition Project - Alameda County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	1/9/2020	5	7	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	6.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Nike Site Demolition Project - Alameda County, Winter

3.1 Mitigation Measures Construction**3.2 Demolition - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1949	0.0000	0.1949	0.0295	0.0000	0.0295			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761		2,322.312 7	2,322.312 7	0.5970		2,337.236 3
Total	2.1262	20.9463	14.6573	0.0241	0.1949	1.1525	1.3474	0.0295	1.0761	1.1057		2,322.312 7	2,322.312 7	0.5970		2,337.236 3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.3800e-003	0.2508	0.0462	6.7000e-004	0.0150	8.1000e-004	0.0158	4.1100e-003	7.7000e-004	4.8900e-003		71.5596	71.5596	3.7900e-003		71.6544
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0496	0.0364	0.3502	1.0000e-003	0.1068	7.1000e-004	0.1075	0.0283	6.6000e-004	0.0290		99.9321	99.9321	2.6100e-003		99.9973
Total	0.0570	0.2872	0.3963	1.6700e-003	0.1218	1.5200e-003	0.1233	0.0324	1.4300e-003	0.0339		171.4917	171.4917	6.4000e-003		171.6518

Nike Site Demolition Project - Alameda County, Winter

3.2 Demolition - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1949	0.0000	0.1949	0.0295	0.0000	0.0295			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761	0.0000	2,322.3127	2,322.3127	0.5970		2,337.2363
Total	2.1262	20.9463	14.6573	0.0241	0.1949	1.1525	1.3474	0.0295	1.0761	1.1057	0.0000	2,322.3127	2,322.3127	0.5970		2,337.2363

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.3800e-003	0.2508	0.0462	6.7000e-004	0.0150	8.1000e-004	0.0158	4.1100e-003	7.7000e-004	4.8900e-003		71.5596	71.5596	3.7900e-003		71.6544
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0496	0.0364	0.3502	1.0000e-003	0.1068	7.1000e-004	0.1075	0.0283	6.6000e-004	0.0290		99.9321	99.9321	2.6100e-003		99.9973
Total	0.0570	0.2872	0.3963	1.6700e-003	0.1218	1.5200e-003	0.1233	0.0324	1.4300e-003	0.0339		171.4917	171.4917	6.4000e-003		171.6518

4.0 Operational Detail - Mobile

Nike Site Demolition Project - Alameda County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Recreational	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Recreational	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Recreational	0.559358	0.040058	0.190549	0.109335	0.016678	0.005213	0.023344	0.044042	0.002152	0.002669	0.005545	0.000316	0.000739

Nike Site Demolition Project - Alameda County, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Nike Site Demolition Project - Alameda County, Winter

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Nike Site Demolition Project - Alameda County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Nike Site Demolition Project - Alameda County, Winter

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Nike Site Demolition Project - Alameda County, Winter

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Nike Site Demolition Project - Alameda County, Summer

Nike Site Demolition Project

Alameda County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Recreational	0.00	User Defined Unit	1.43	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	63
Climate Zone	5			Operational Year	2021
Utility Company	Modesto Irrigation District				
CO2 Intensity (lb/MW hr)	833.46	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 1.43 acres of county land

Construction Phase - Require 1 week to demolish

Demolition - 1,386 demo building

Land Use Change -

Operational Off-Road Equipment -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	7.00
tblLandUse	LotAcreage	0.00	1.43

Nike Site Demolition Project - Alameda County, Summer

2.0 Emissions Summary**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.1809	21.2206	15.0705	0.0259	0.3167	1.1540	1.4707	0.0620	1.0776	1.1395	0.0000	2,503.813 9	2,503.813 9	0.6033	0.0000	2,518.895 4
Maximum	2.1809	21.2206	15.0705	0.0259	0.3167	1.1540	1.4707	0.0620	1.0776	1.1395	0.0000	2,503.813 9	2,503.813 9	0.6033	0.0000	2,518.895 4

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.1809	21.2206	15.0705	0.0259	0.3167	1.1540	1.4707	0.0620	1.0776	1.1395	0.0000	2,503.813 9	2,503.813 9	0.6033	0.0000	2,518.895 4
Maximum	2.1809	21.2206	15.0705	0.0259	0.3167	1.1540	1.4707	0.0620	1.0776	1.1395	0.0000	2,503.813 9	2,503.813 9	0.6033	0.0000	2,518.895 4

Nike Site Demolition Project - Alameda County, Summer

[illegible]

Nike Site Demolition Project - Alameda County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Nike Site Demolition Project - Alameda County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	1/9/2020	5	7	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	6.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Nike Site Demolition Project - Alameda County, Summer

3.1 Mitigation Measures Construction**3.2 Demolition - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1949	0.0000	0.1949	0.0295	0.0000	0.0295			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761		2,322.312 7	2,322.312 7	0.5970		2,337.236 3
Total	2.1262	20.9463	14.6573	0.0241	0.1949	1.1525	1.3474	0.0295	1.0761	1.1057		2,322.312 7	2,322.312 7	0.5970		2,337.236 3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.1800e-003	0.2451	0.0424	6.9000e-004	0.0150	7.9000e-004	0.0158	4.1100e-003	7.6000e-004	4.8700e-003		72.9042	72.9042	3.5300e-003		72.9925
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0476	0.0293	0.3708	1.0900e-003	0.1068	7.1000e-004	0.1075	0.0283	6.6000e-004	0.0290		108.5970	108.5970	2.7800e-003		108.6666
Total	0.0547	0.2743	0.4132	1.7800e-003	0.1218	1.5000e-003	0.1233	0.0324	1.4200e-003	0.0339		181.5012	181.5012	6.3100e-003		181.6591

Nike Site Demolition Project - Alameda County, Summer

3.2 Demolition - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1949	0.0000	0.1949	0.0295	0.0000	0.0295			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761	0.0000	2,322.3127	2,322.3127	0.5970		2,337.2363
Total	2.1262	20.9463	14.6573	0.0241	0.1949	1.1525	1.3474	0.0295	1.0761	1.1057	0.0000	2,322.3127	2,322.3127	0.5970		2,337.2363

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.1800e-003	0.2451	0.0424	6.9000e-004	0.0150	7.9000e-004	0.0158	4.1100e-003	7.6000e-004	4.8700e-003		72.9042	72.9042	3.5300e-003		72.9925
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0476	0.0293	0.3708	1.0900e-003	0.1068	7.1000e-004	0.1075	0.0283	6.6000e-004	0.0290		108.5970	108.5970	2.7800e-003		108.6666
Total	0.0547	0.2743	0.4132	1.7800e-003	0.1218	1.5000e-003	0.1233	0.0324	1.4200e-003	0.0339		181.5012	181.5012	6.3100e-003		181.6591

4.0 Operational Detail - Mobile

Nike Site Demolition Project - Alameda County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Recreational	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Recreational	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Recreational	0.559358	0.040058	0.190549	0.109335	0.016678	0.005213	0.023344	0.044042	0.002152	0.002669	0.005545	0.000316	0.000739

Nike Site Demolition Project - Alameda County, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Nike Site Demolition Project - Alameda County, Summer

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Nike Site Demolition Project - Alameda County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Nike Site Demolition Project - Alameda County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Nike Site Demolition Project - Alameda County, Summer

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Appendix B

Historic Resources Evaluation

HISTORIC RESOURCES EVALUATION

Nike Missile Site SF-31C

San Leandro, California



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INTRODUCTION

This report evaluates the California Register of Historical Resources eligibility of five buildings at the former Nike Missile Site SF-31C. Located on a 1.43-acre parcel on Fairmont Ridge, San Leandro (APN 79-1-5-2), the project area is an in-holding within the East Bay Regional Park District's (EBRPD) Lake Chabot Regional Park. A site survey of the project area was completed on May 17, 2019 and historic archival research was conducted in May, 2019.

Site SF-31C was the Integrated Fire Control Area for Nike Missile Site SF-31, constructed in 1955, which held both Nike-Ajax and Nike-Hercules surface-to-air missiles before being decommissioned in 1974. Hosting the command and control functions of the base, SF-31C was one of three functional areas of the Lake Chabot Nike Missile Base which included the Launch area (SF-31L) and the Administrative area (SF-31A). Areas SF-31L and SF-31A are now part of the Lake Chabot Regional Park. The Nike system was the world's first surface-to-air missile system and was intended to defend the United States against nuclear-armed bombers. The San Francisco Bay Area, then home to many military bases and critical defense infrastructure, was ringed by 12 Nike installations by the late 1950s.

The following historic evaluation was conducted in accordance with the requirements of the California Environmental Quality Act (CEQA). For purposes of CEQA, a significant historic resource is a resource listed in, or considered eligible for listing in, the California Register of Historical Resources. All five buildings at Nike Missile Site SF-31C were evaluated under the criteria of the California Register. The buildings have not previously been evaluated under local, state, or federal historic designation criteria.

The buildings at SF-31C include the Quarters Building, High Power Acquisition Radar [HIPAR] building, Generator Building, Guard Shack, and Corridor Building (with Radar Storage Shed addition). The Quarters Building and Radar Storage Shed addition to the Corridor Building are proposed for demolition. This report concludes that none of the buildings at SF-31C are individually eligible to the California Register.

However, three of the buildings – the HIPAR Building, Generator Building, Corridor Building, and Guard Shack – are contributing resources to a California Register-eligible Lake Chabot Nike Missile Base Historic District, which includes buildings and features at areas SF-31L and SF-31A, because they are significant under California Register Criteria 1 as defined in the CEQA Guidelines at §15064.5. The Quarters Building and Radar Storage Shed addition, however, are not contributing resources and are not eligible to the California Register.

As one of the three or four best preserved of the original 12 Nike installations in the Bay Area, the Lake Chabot Nike Base retains most of the important features of the original Nike Base, a historically significant technological advance in the history of United States military defenses. Its period of significance is 1955 to 1974.

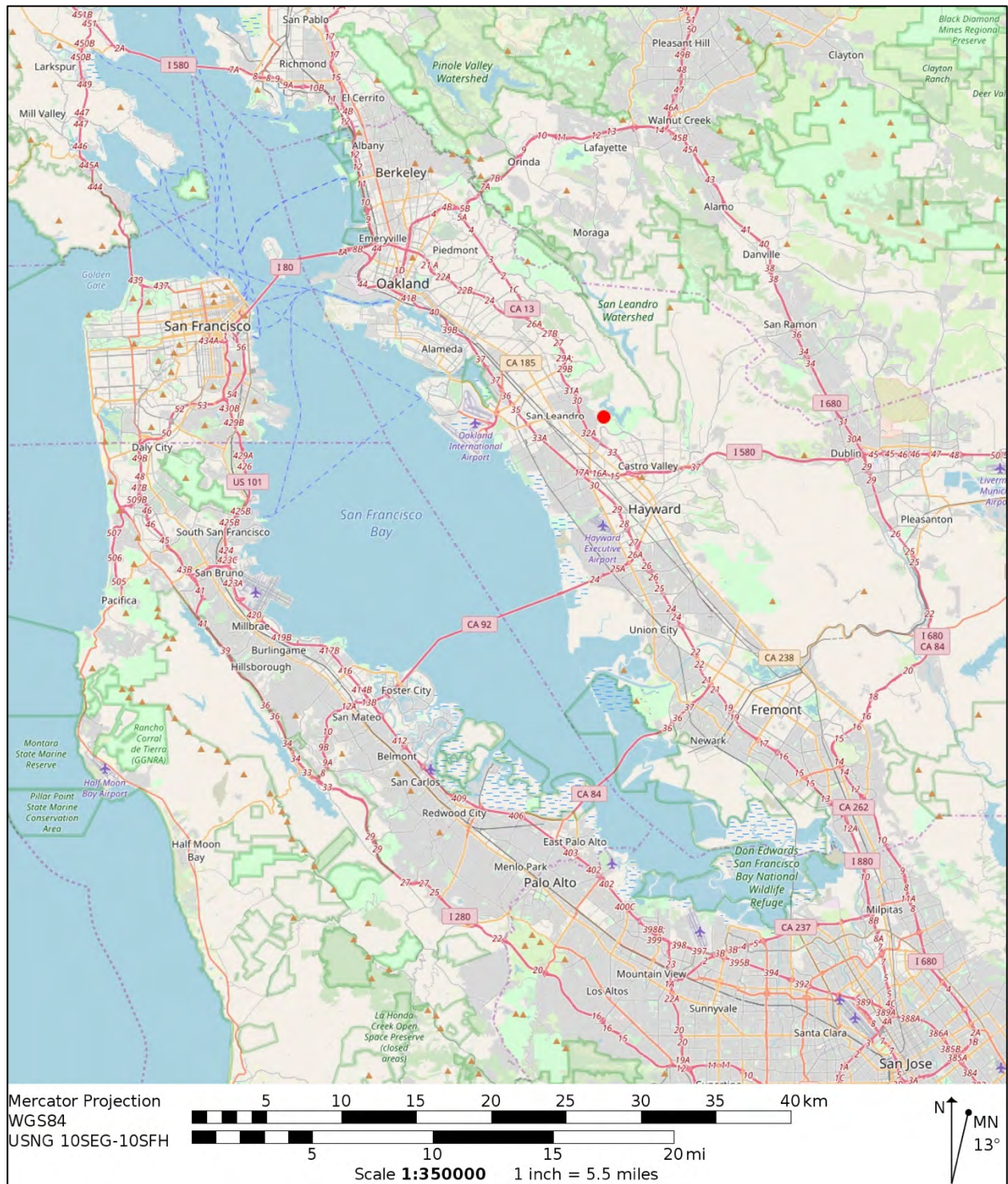


Figure 1: Project Location

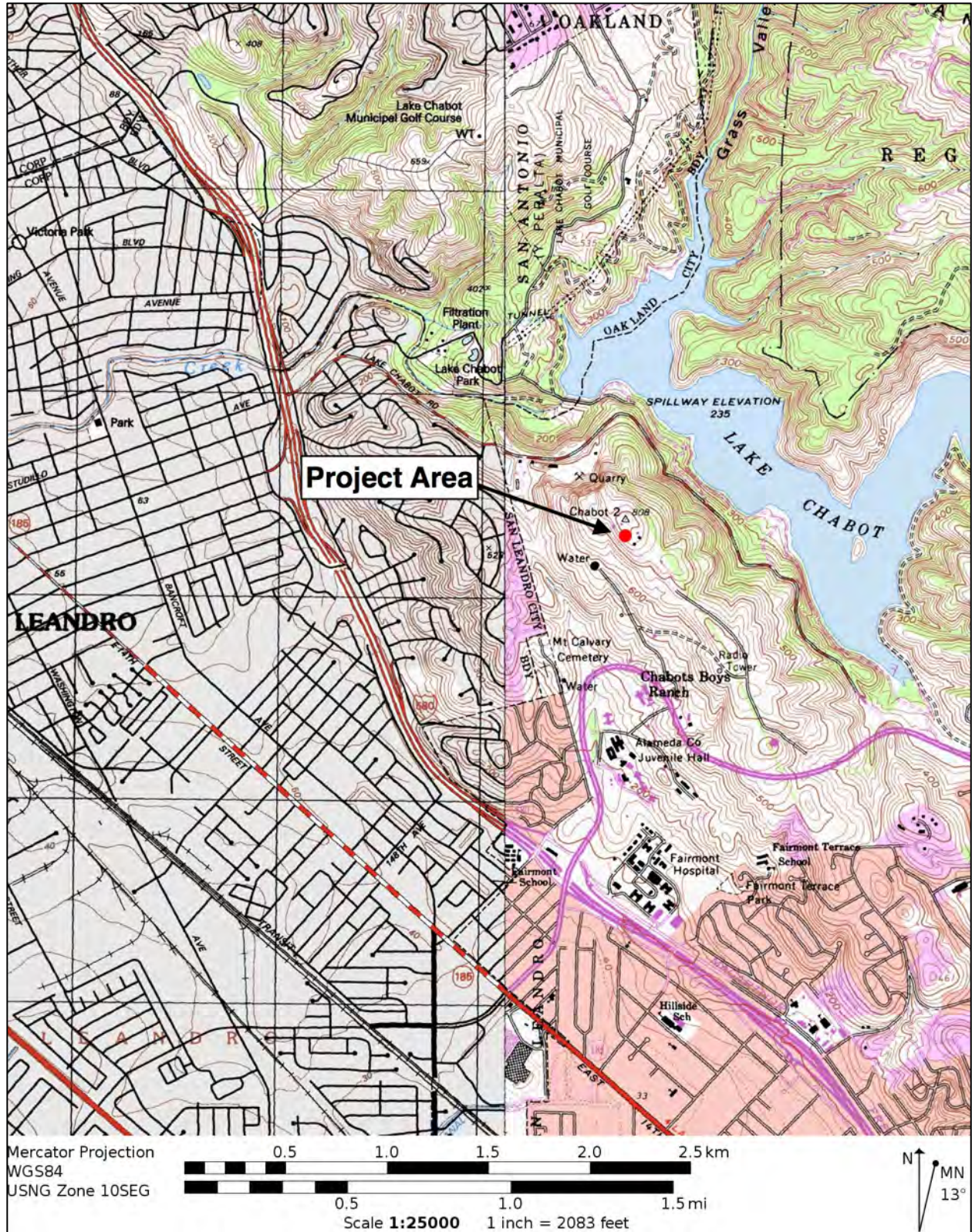


Figure 2: Project Vicinity

USGS Walnut Creek 7.5' Quad

PROPERTY DESCRIPTION

Setting

The project area was formerly the Integrated Fire Control area (hereafter ‘Control area’) of Nike base SF-31C at Lake Chabot. Twelve Nike bases formerly ringed the San Francisco Bay Area, and each had three functional areas: an Administrative area, a Launcher area which held the missiles themselves, and a Control area, which held the radar and communications equipment required to identify and track targets and guide missiles to intercept them. At SF-31, the Launcher area (SF-31L) and the Administrative area (SF-31A) were on the east side of Lake Chabot, about 1.1 miles southeast of the project area. The project area is owned by Alameda County, while SF-31L and SF-31A are owned by the East Bay Regional Parks District (EBRPD).

The Control area for Nike SF-31 is located at on a 1.43-acre parcel at the north end of Fairmont Ridge, at approximately 800 feet elevation. Its street address is 2892 Fairmont Drive, San Leandro, but it can only be reached by an EBRPD service road. SF-31C consists of five buildings arranged on a north/south axis. From south to north, they are the Guard Station, Quarters Building, the Generator Building, Corridor Building (with attached Radar Storage Shed) and the HIPAR building. The buildings are located on terraces that slope downward from north to south. A perimeter chain link fence surrounds the entire Control area. To the east of the property, eucalyptus wind rows mark the crest of Fairmont Ridge, while the rest of the vicinity is steep, hilly, and covered with open grassy fields. The views to the west from the site include the cities of San Leandro and Oakland, while Lake Chabot is visible to the east.

In addition to the five buildings, the Control area has several circular concrete tracking radar pads and a water storage tank (modern) set on concrete piers. Various concrete pads and asphalt covered parking areas are adjacent to the buildings. Concrete stairs and the access road join the three levels of the terraced site. The Quarters Buildings and the Generator Building are on the south, with the Corridor Building at mid-level then the HIPAR Building and Antenna at the site’s highest elevation. The Guard Station is at the lowest elevation at the bottom of the hill adjacent to the access road leading up to the main building complex. All the buildings on the site are constructed of concrete block, with the exception of two additions: a Radar Storage Shed built of corrugated metal is attached to the Corridor Building, while the Quarters Building has a wood-frame addition on its west side.



Figure 3: Views southwest (L) and northwest (R) from SF-31C.

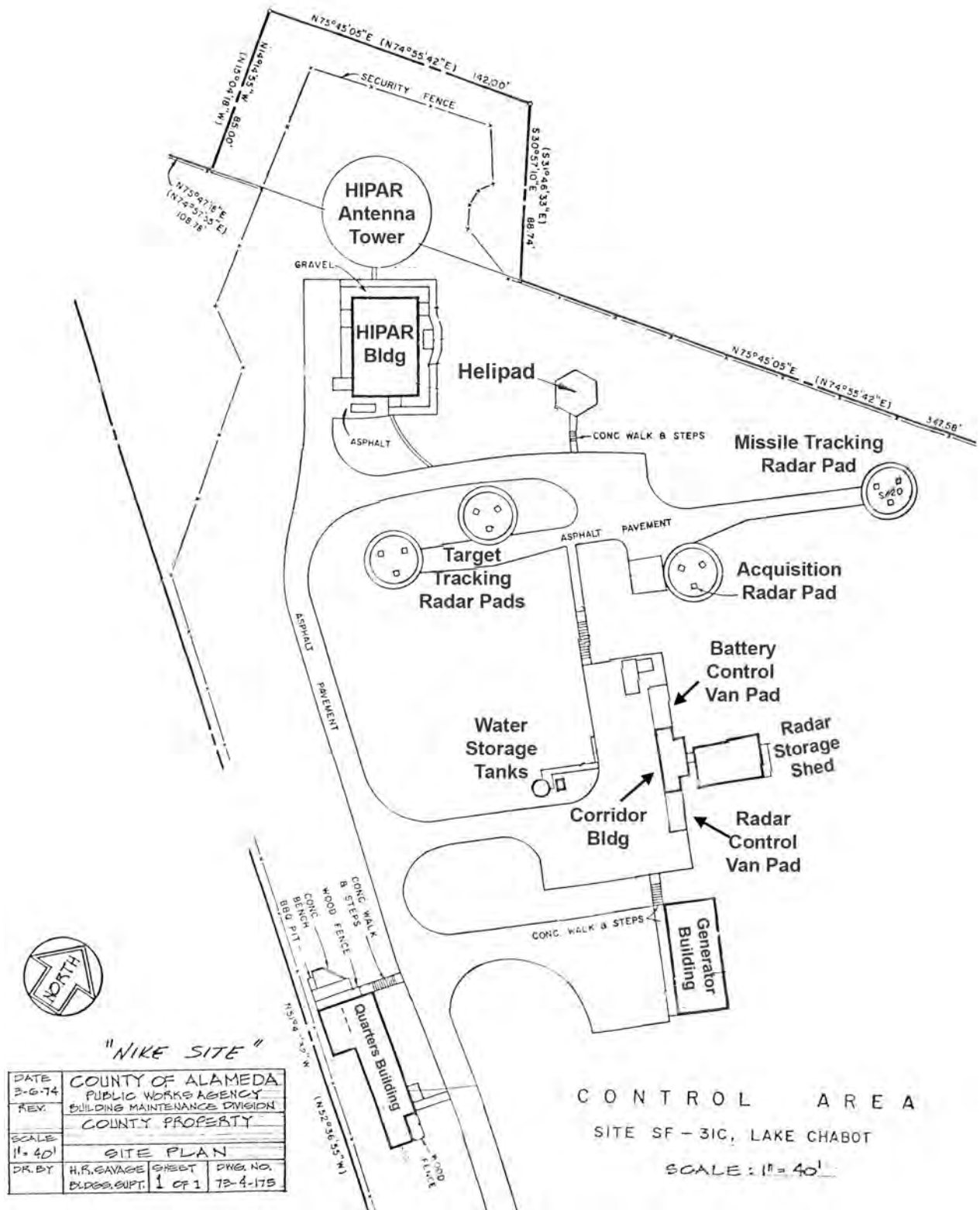


Figure 4: Site Plan, SF-31C, at decommissioning in 1974

Guard Station

From Fairmont Avenue, the access road leads approximately one mile up to the entrance to SF-31C. Here, one would pass a small Guard Station on the right-hand side of the road adjacent to a locked gate leading into the restricted-access facility. The guard station is rectangular in plan, constructed of concrete block, and measures 6 by 8 feet. It sits on a flat concrete pad. It has a flat roof with wide eaves, an opening for a single hinged door on the west and a single, wood-sash, double-hung window on each of the three facades. The original door and window glass are missing, and the interior is now very deteriorated. The access road continues up a steep hill to the north to the main building complex set on the top of the ridge.



Figure 5: Guard station, looking east.

The Quarters Building (Building D)

Ascending the hill from the Guard Station, the Quarters Building (also known as Building D) is at the south end of the main building complex on the west side of the access road. The Quarters Building sits on the edge of a steep hill. Made of concrete block, the Quarters Building has an L-shaped plan (with a recess at the southeast corner) and a flat roof (with shallow eaves) covered with tar and gravel. The building is 64 feet long and 18 feet wide on the north, narrowing to 12 feet on the south (1,320 square feet). The building has wood sash, double-hung windows – now covered over with plywood – on the east and west façades. Concrete steps lead down from the access road to the main building entrance on the north. A concrete bench and a barbeque area are adjacent to the north façade. On the west side of the building, a wood-framed addition projects out over the

hill slope. This addition was built between 1965 and 1974 (compare Figure 4 above with Figure 18 below).

Inside, the Quarters Building is divided into two major spaces arranged on a north/south axis. In the main space on the south, the roof has collapsed resulting in extensive water damage, mold and dry rot deterioration to the interior. The interior originally included a kitchen, a living area and a sleeping area for the approximately 10 military personnel posted to area SF-31C.



Figure 6: Quarters Building. Upper left: north and east façades, looking south. Upper right: south and east façades, looking north. Lower left: Interior of southern room. Lower right: interior of northern room..

The Generator Building (Building C)

The Generator Building is directly east of the Quarters Building, across the access road and an asphalt parking area. The rectangular plan (25 by 56 feet), concrete block Generator Building has a flat roof with shallow eaves. A variety of ventilating equipment is on the roof. The main west façade opens out to an asphalt paved parking area on the west. Viewed from the west façade, the building has two sections: a taller section on the right (south), which held the generator machinery, and a lower and somewhat narrower section on the left (north). The taller south section has three garage openings now covered with plywood. A pair of ventilation grates is above each opening. The lower section on the north also has three openings for doors now covered with plywood. The north façade has a single hinged door and an adjacent window. Inside the main generator floor occupies most of the interior (1,400 square feet). This open free space has exposed aluminum roof trusses supporting an aluminum plate roof. An adjacent room on the north appears to be a shop

area and for storing parts. No generator equipment remains inside the building, which has extensive mold damage and is used to store miscellaneous items.



Figure 7: Generator Building. Upper: west façade. Lower left: interior of generator room on south side of building. Lower right: north and east façade.

Corridor Building & Radar Storage Shed (Building B)

A concrete staircase leads up from the Generator Building to the Corridor Building (and the later addition Radar Storage Shed to the east). The Corridor Building (also called the electronic shop building) was used to connect mobile communications and computer vans to one another and to the other equipment at the Control area. The project proposes to retain the Corridor Building but the Radar Storage Shed will be removed.

The Corridor Building is on a flat site with adjacent concrete pads: the Battery Control Van Pad on the north and the Radar Control Van Pad to the south. The T-shaped plan Corridor Building is constructed of concrete block. The overall dimensions are 20 by 5 feet with a central three-foot-wide extension at the center of the east façade forming the leg of the T. (The Radar Storage Shed, a later addition, is attached to the Corridor Building via this extension). The Corridor Building has hinged doors on each side of the main west façade. Inside, it has a single room with wood paneling, vinyl floor covering and acoustical tile ceiling with fluorescent lighting. Obsolete computer and radio equipment are stored in the room.



Figure 8: Corridor Building and Radar Storage Shed. Upper left: north and east façades, looking south. Upper right: South façade. Lower left: north façade. Lower right: interior, with electronic equipment.

The rectangular (20 by 33 feet) Radar Storage Shed is a later addition to the Corridor Building. The addition has a segmental arch roof; the walls and the roof are covered with bolted corrugated metal panels. The Radar Storage Shed had windows on the north and south façades (now covered over). The interior of the addition is used for storage and was not accessible.

Radar Pads

A second concrete staircase leads to the upper terrace, where four concrete radar pads and the HIPAR building are located. Nike Control areas had four small rotating radar units, which were mounted on tripods fixed to concrete pads. These radars provided target tracking, target acquisition, and missile tracking capabilities. The four radar pads are oriented in an east-west line and measure approximately 15 feet in diameter.



Figure 9: Target Tracking Radar Pad.

High Power Acquisition Radar (HIPAR) Building (Building A) and HIPAR Antenna Tower

North of the radar pads stand the HIPAR Building and adjacent antennas, which will not be affected by the project. A chain link fence surrounds this concrete block building which has a flat tar and gravel roof and metal doors on each façade. The building measures 34 by 50 feet (1,700 square feet) and is rectangular in plan. The interior was not accessible. The modern radar dishes on the building and the Antenna Tower are part of the Alameda County Sheriff's Office communications and Emergency Response System, and are not associated with the building's original use as part of the Nike Missile Base. It was unclear whether any of the existing antenna masts were once part of the HIPAR radome.



Figure 10: HIPAR Building, looking north.



Figure 11: HIPAR Building, looking southwest.

HISTORIC CONTEXT

Pre-Nike Base History

The project area is located on Fairmont Ridge, west of Lake Chabot. The buildings in the project area were constructed as part of the Nike missile program in the mid-1950s (Nike base SF-31). Prior to that time, the project area was pasture land adjacent to watershed lands owned by Contra Costa Water Company, the People's Water Company, and later the East Bay Municipal Utility District (EBMUD). Other parts of Nike base SF-31 were located next to Lake Chabot on East Bay Regional Park District (EBRPD) land.

In 1878 the project area was part of a 317-acre parcel belonging to J.M. Schaffer and Co. By 1900, that same parcel, minus a small portion in the northeast for a quarry and now 304 acres, belonged to E. Leveling (Nusbaumer and Boardman 1900); E. Leveling is also listed as the owner in 1910 (Haviland 1910). Eli Leveling was a fruit farmer and the son of John Leveling, "a pioneer nurseryman of the Pacific Coast" (Munro-Fraser 1883: 35), who moved to California from Iowa with his family in 1854 and settled on the north bank of San Lorenzo Creek (Yeager 2013). Eli Leveling died in 1926 in San Lorenzo, leaving his estate to his niece, Elva King (*Berkeley Daily Gazette* 1928).

In 1876, Anthony Chabot finished construction of a dam on San Leandro Creek, which created Lake Chabot and provided water to Oakland and San Leandro. Chabot planted thousands of trees around the lake and the treeline that runs along Fairmont Ridge, just east of the project area, may date to that time (Burgess 1992: 125-134). By the 1920s the watershed lands around Lake Chabot, the project area and throughout the East Bay were owned by the East Bay Water Company. However, at the same time, the East Bay Municipal Utility District (EBMUD) was created to shift the East Bay's water supply from local reservoirs to water from the Sierras by building a new system to bring in water from the Mokelumne River. This new source of water from the Sierras made local catchment basins and reservoirs unnecessary and when EBMUD acquired the East Bay Water Company and its vast amount of watershed lands in 1928, EBMUD made 10,000 acres of watershed land available. In 1934, East Bay voters approved the creation of the East Bay Regional Park District (EBRPD) to acquire this watershed land and maintain and manage it as a park system (Stein 1984: 3-15). The park district acquired 959 acres of land from EBMUD in Grass Valley, which bordered Lake Chabot, and opened it as Anthony Chabot Regional Park in 1952 (Stein 1984: 38). Lake Chabot itself was leased to EBRPD by EBMUD in 1964, and was opened to the public for boating and fishing on the lake and hiking and camping in the surrounding hills (Stein 1984: 62-3). The project area, just west of the Lake Chabot Regional Park boundary, has been owned by Alameda County since at least 1954.

The Nike Missile Program

The Nike program, developed by the US Army, was the first operational surface-to-air missile system. It was initially envisioned in the final months of the Second World War, with research continued after the end of the war. After the Soviet Union developed long range bombers and nuclear capabilities, the Nike missile systems were implemented as a last-ditch defense of major urban areas and other key sites. The first Nike batteries became operational in 1954, and the program rapidly expanded to cover the entire United States and some allied countries. The San Francisco Bay Area, then home to many military bases and critical defense infrastructure, was

ringed by 12 Nike installations by the late 1950s (Federation of American Scientists 1999; Military Standard 2019).

As noted above, each Nike base consisted of three areas: an Administrative area, a Control area, and the Launcher area (Morgan and Berhow 2010:10). For technical reasons, the Control area had to be separated from the Launcher area by 0.5-3.5 miles, though the Launcher and Administrative areas were usually co-located. As a result, Nike bases were usually situated on two separate parcels of land. The typical Launcher area contained four above-ground missile launchers, two or three underground magazines which stored 24 to 32 missiles, a missile assembly and testing building, storage and repair building, and a ready room for on-duty personnel. The Control area contained radar and computer systems that tracked hostile aircraft and guided the missiles to their targets, and were often constructed on high ground. Administrative areas contained the mess hall, barracks, administrative offices, and recreational facilities. All of these structures were built to standard designs developed by the Army Corps of Engineers and were built of cinderblock with flat roofs (Morgan and Berhow 2010:20). Each of the base areas was surrounded by a security fence.

The Nike base system initially used Nike Ajax missiles, two-stage guided missiles powered by a motor using liquid fuel. The Ajax missiles could reach speeds of over 1,600 mph and altitudes of up to 70,000 feet. However, their range was only 25 miles and soon after the Nike base system was initiated, development began on an improved missile, the Nike Hercules. The Nike Hercules missile had a range of about 90 miles, could reach speeds above 2,700 mph and altitudes up to 150,000 feet, and could carry a nuclear warhead (Military Standard 2019).

The development of intercontinental ballistic missiles after 1965 made the Nike system less valuable for continental defense, and many batteries were decommissioned in the late 1960s. After the 1972 Strategic Arms Limitation Treaty with the Soviet Union, the Nike program was largely shut down, with most sites decommissioned by 1974.

The Nike Program in the San Francisco Bay Area

During the late 1950s, the US Army Corps of Engineers acquired land for 12 Nike bases around San Francisco Bay. These bases were commanded from the 6th Region, US Army Air Defense Command at Fort Baker in San Francisco.

- SF-08: San Pablo Ridge
- SF-09: San Pablo Ridge/Berkeley
- SF-25: Rocky Ridge/Bollinger Canyon
- SF-31: Lake Chabot/Castro Valley
- SF-37: Coyote Hills/Newark
- SF-51: Milagra/Pacifica
- SF-59: Fort Funston/Mt. San Bruno
- SF-87: Fort Cronkite/Sausalito
- SF-88: Fort Barry/Sausalito
- SF-89: Fort Winfield Scott
- SF-91: Angel Island
- SF-93: San Rafael

All of these sites except for SF-31, SF-51, and SF-88 were deactivated by 1971. The remaining three were deactivated in 1974 (Lonnquest and Winkler 1996:323). The bases today are in varying condition: three are in good condition, four in fair condition, and five are mostly or totally demolished. SF-88 at Fort Barry is now part of the Golden Gate National Recreation Area and is the only Nike site in the United States that is open to the public as a museum. See ‘Integrity’ section below for a fuller discussion of the condition of the other San Francisco area Nike bases.

Nike Base Integrated Fire Control Areas

General Layout

The project area is home to the Control area of Nike Base SF-31, and hosted the command and control functions of the base. (They are also known as Integrated Fire Control areas or Radar Course Directing Centrals in Army technical documents.). The Control area generated and broadcasted the radar signals used to detect targets, interpreted signal data, and controlled targeting, firing, and detonation of missiles. Control areas were laid out using one of several standardized designs that could be adapted to the topography and size of the available property. The two main types were the “unconsolidated” layout, where each base function was housed in a separate building, and the “consolidated” layout, which saw most of the area’s equipment placed in two buildings. SF-31C had an “unconsolidated” layout (Nike Historical Society 2019).

The main structures at an unconsolidated layout Control area, such as the project area, were as follows:

- HIPAR Building
- Radar Arrays (HIPAR, LOPAR, Tracking Radars)
- Electronic Shop Building
- Generator Building
- Quarters Building
- Guard Shack

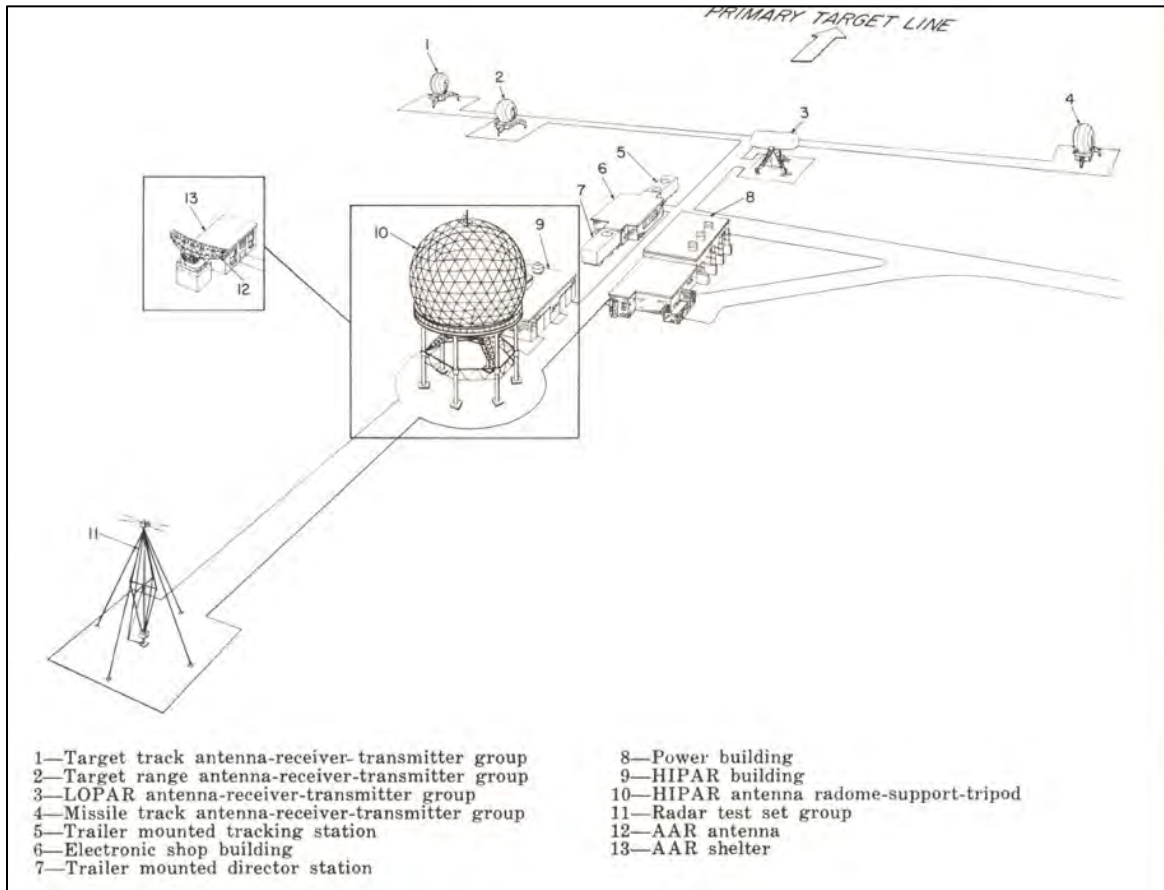
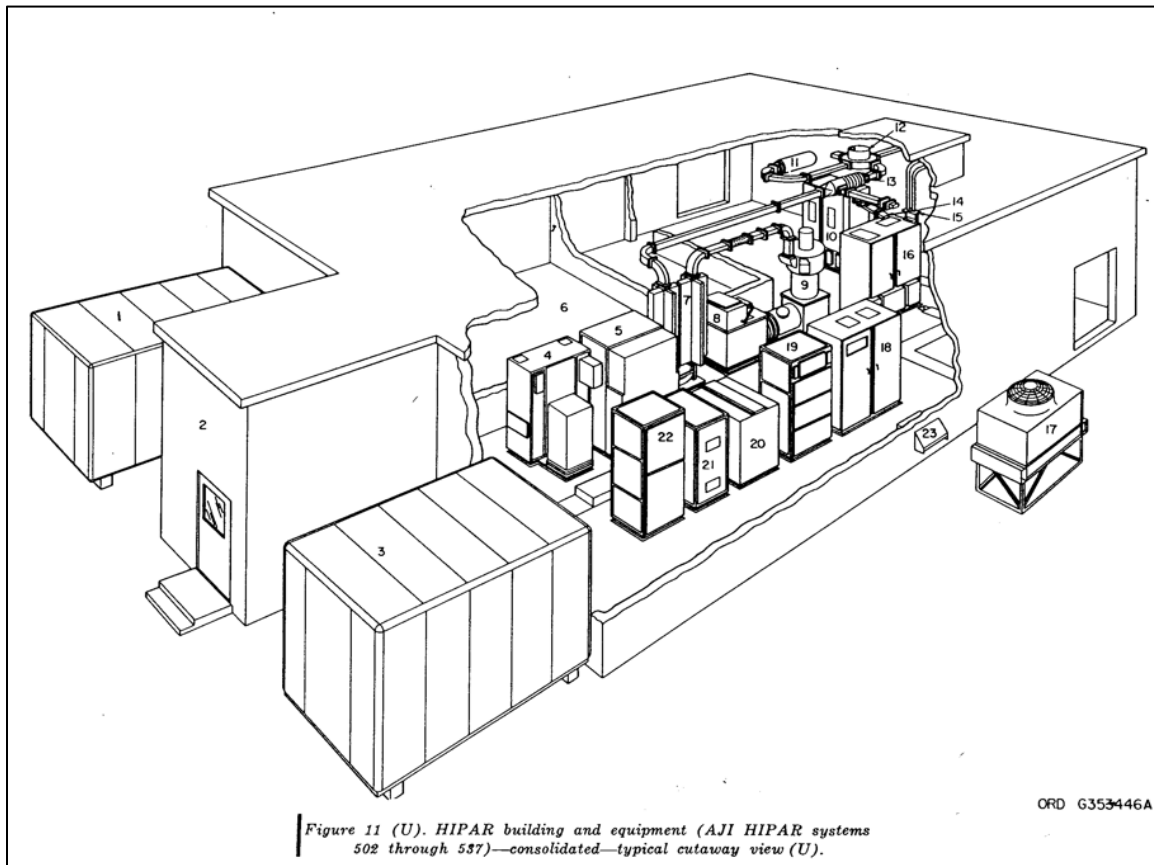


Figure 12: Schematic of Nike Integrated Fire Control Area, showing major equipment (Nike Historical Society 2019)

HIPAR Building

The High Power Acquisition Radar (HIPAR) system was installed at Nike installations that were upgraded for use with Hercules missiles after 1958. HIPAR allowed detection of missiles or aircraft at higher altitude than the previous LOPAR system. It was effective against small, supersonic targets and could defend against tactical ballistic missiles (Lonnquest and Winkler 1996:180).

The HIPAR building held equipment to generate and filter radar signals, as well as receiving equipment to process signals that had bounced off potential targets. A storage space for HIPAR parts, tools and test equipment, as well as a work space for equipment repair, was also provided. The HIPAR antenna itself was located outside of, but close to, the HIPAR building. The HIPAR array had a dome-shaped cover known as a 'radome' which covered the radar and antennas, mounted on a tripod support structure which could be as much as 50 feet high (Military Standard 2019).



- | | |
|---------------------------------|--|
| 1—FUIF room | 11.1—Airline support assembly |
| 2—High voltage power supply | 12—Noise coupler and thermal noise generator |
| 3—High voltage pulse generator | 13—Receiver group |
| 4—RF harmonic filter | 14—Pumping unit |
| 5—Pulse transformer | 15—Liquid cooler |
| 6—Waveguide sections | 16—Control-oscillator group |
| 7—Klystron amplifier | 17—Power control-indicator |
| 8—Dummy load | 18—Induction voltage regulator |
| 9—Moving target indicator group | 19—Step-up power transformer |
| 10—Waveguide switch | 20—Simulator distribution box |
| 11—Duplexer assembly | |

Figure 13: HIPAR Building Layout. Note that in an unconsolidated layout such as SF-31C, the FUIF equipment and trailers are installed in the electronic shop building instead of the HIPAR building.

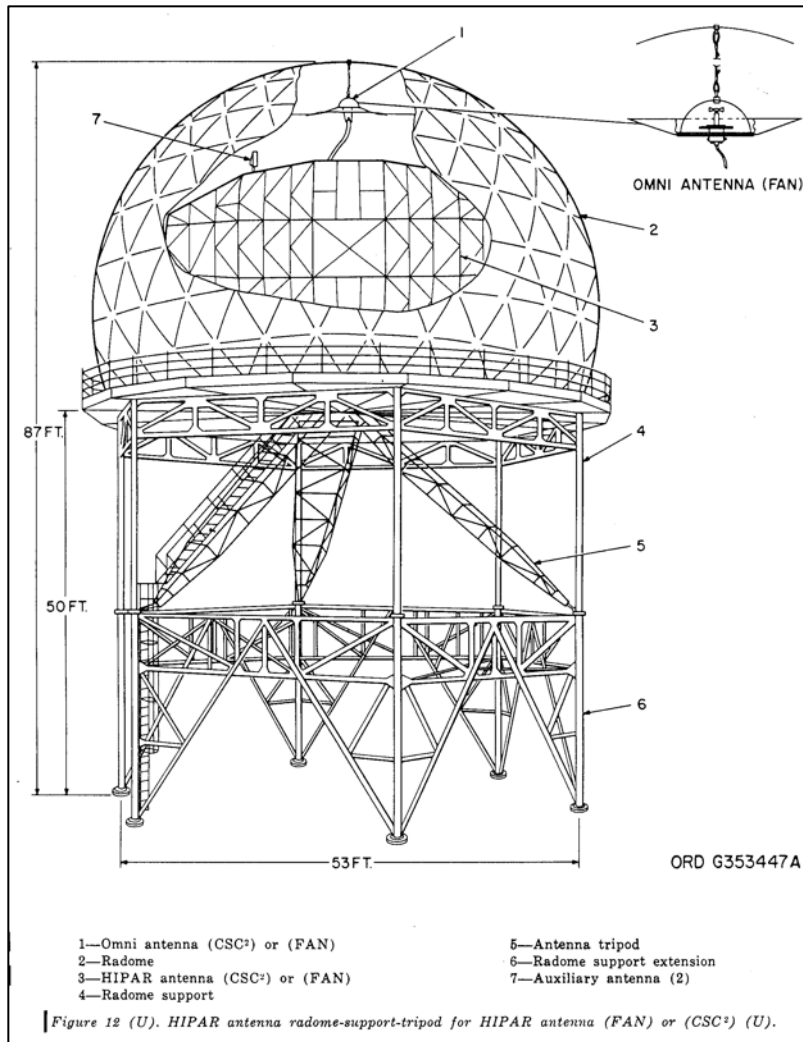


Figure 14: HIPAR Radome

LOPAR Array and Tracking Radars

Low-Power Acquisition Radar (LOPAR) consisted of a rotating directional antenna that contained a receiver and transmitter array, mounted on a circular concrete pad. LOPAR worked similarly to HIPAR, but had a shorter range.

After a target was acquired using LOPAR and HIPAR arrays, a Target Tracking Radar (TTR) would follow the target and provide data to the Target Ranging Radar (TRR) displays. After launch of an interceptor missile, a Missile Tracking Radar (MTR) system would monitor the missile's course and transmit guidance commands (Nike Historical Society 2019). The three tracking and ranging radar systems were also mounted on concrete pads.

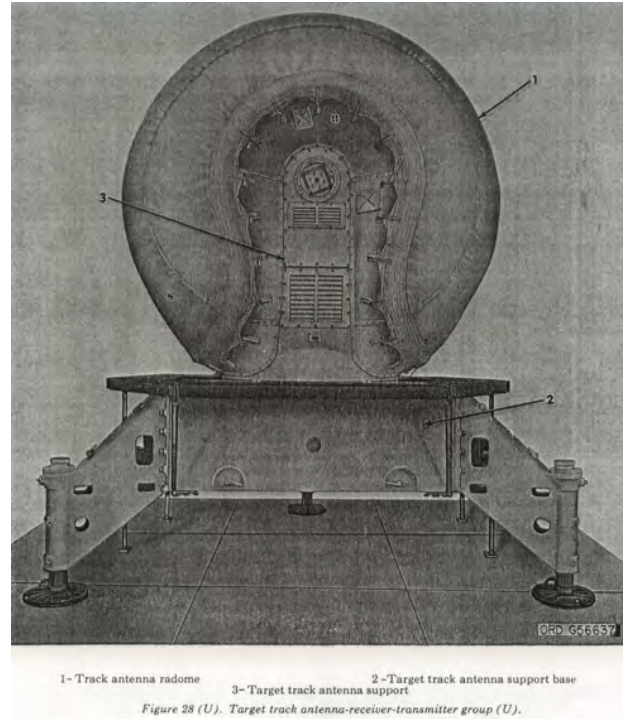
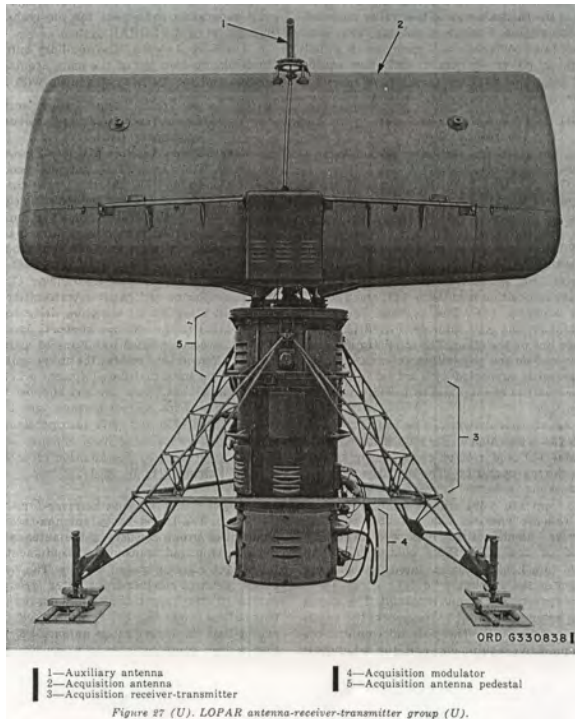


Figure 15: LOPAR (left) and Target Tracking (right) antenna-receiver-transmitter groups

Electronic Shop Building, AKA ‘Corridor Building’

This narrow building served as a bridge between two portable trailers containing the radar control equipment, with one trailer being attached on either end to form a corridor (another name for the building was the “Corridor Building”. It was used in Control areas with unconsolidated layouts; in posts with consolidated layouts this equipment was located inside the HIPAR building.

Trailers were used because the Nike system was originally designed as a mobile artillery unit before it was adapted for fixed air defense. The battery control trailer (or “trailer mounted director station”) provided the battery control officer with the information he needed to direct the battery. Inside the trailer were the acquisition radar displays, early warning plotting board, telephone switchboard, stations for the radar and computer operators, and computers that controlled the acquisition radar system housed in the HIPAR building. The radar control trailer (or “trailer mounted tracking station”) held equipment for operating the target acquisition and missile tracking systems, using signals received from the HIPAR building (Military Standard 2019).

Generator Building

The Generator Building held generators and power converters. Most Nike bases ran on normal 60 hertz, 120 volt power, but were furnished with diesel generators in case of emergency. The transformers were used on a continuous basis to convert 60 hertz, 120 volt commercial electricity to the 400 hertz power used by the Nike radars (the generators also produced power at 400hz).

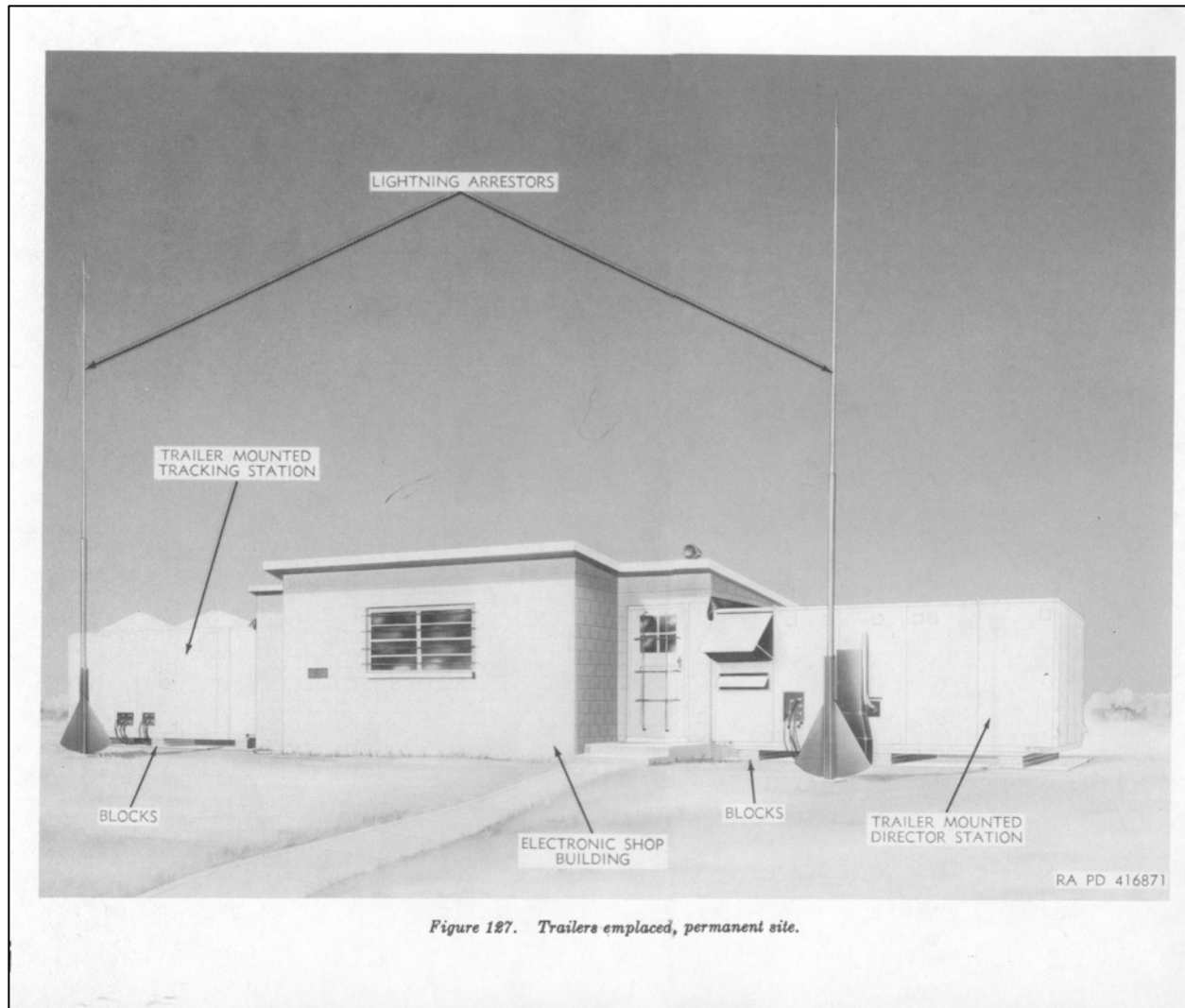


Figure 16: View of Typical Corridor Building

Quarters Building

Nike Control areas needed a crew of 10 or more to operate, and their location – usually a mile or more from the main base – required an area for sleeping, eating, and other necessities. Quarters Buildings were usually long and narrow and of cinder-block construction.

Guard Shack

The Guard Shack was positioned at the entrance to a Control area and was a small rectangular booth with a front door and side windows allowing the guard to speak to people leaving and entering the facility (Military Standard 2019).



Figure 17: Nike Base SF-31, with administrative area (SF-31A) in foreground, launcher area (SF-31L) in middle ground, and integrated fire control area (SF-31C, the project area) behind the treeline on the ridge in background.

SF-31 at Lake Chabot, 1955-1974

The US Army constructed Nike base SF-31 near Lake Chabot in 1955, leasing the land from Alameda County and EBMUD. The Launcher area (SF-31L) was located approximately 270 yards east of the south end of Lake Chabot and consisted of eight launchers and two magazines that held 20 Nike Ajax missiles, along with a missile assembly building, missile fueling station, generator building, and dog kennel (Sebby 2016). All of the buildings still stand on site, along with a number of buildings built after decommissioning of the Nike Base. The magazine elevator doors are still visible in aerial photographs, though it is unknown whether any of the underground facilities survive.

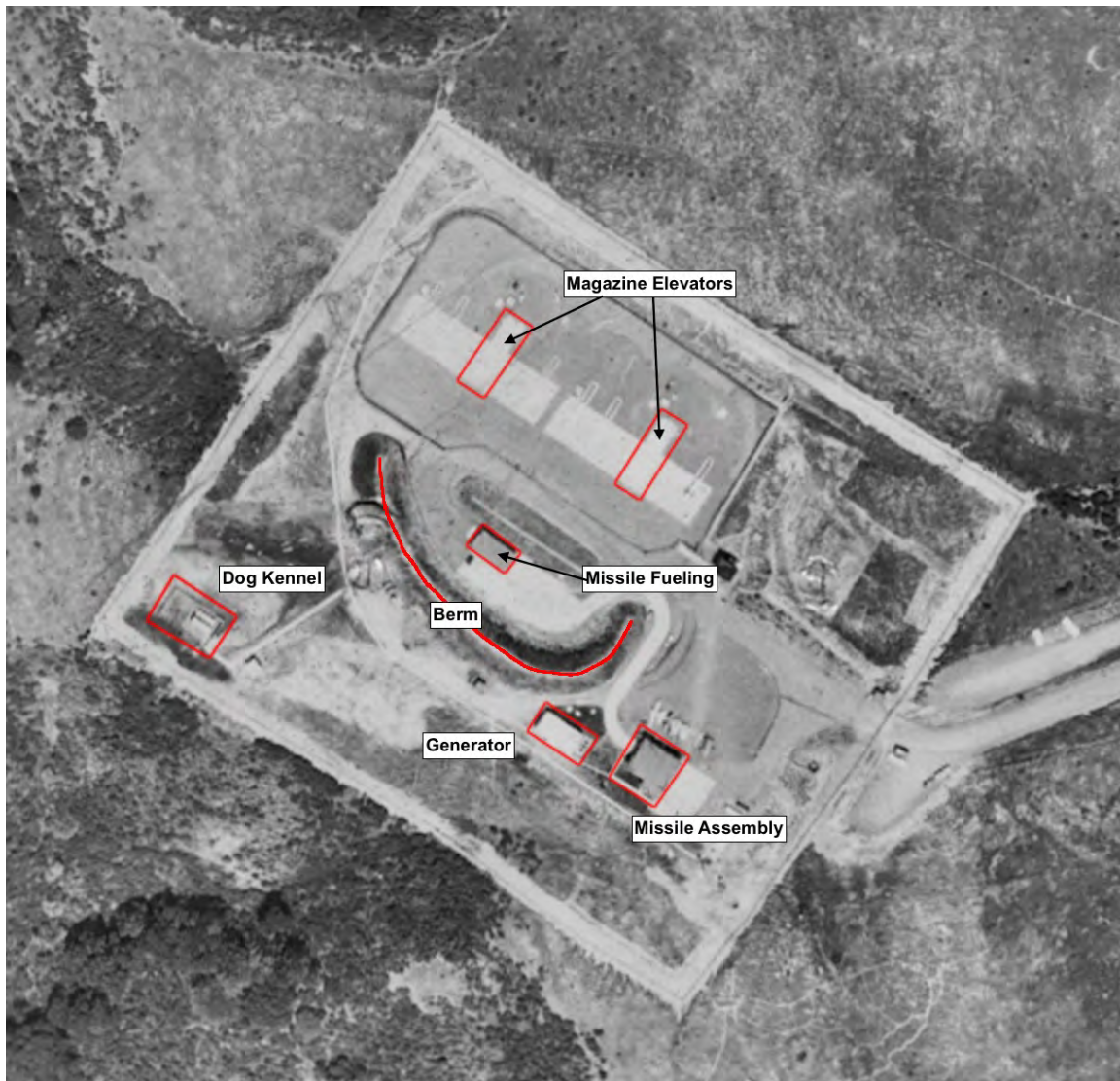


Figure 18: Aerial Photo of SF-31L, 1965

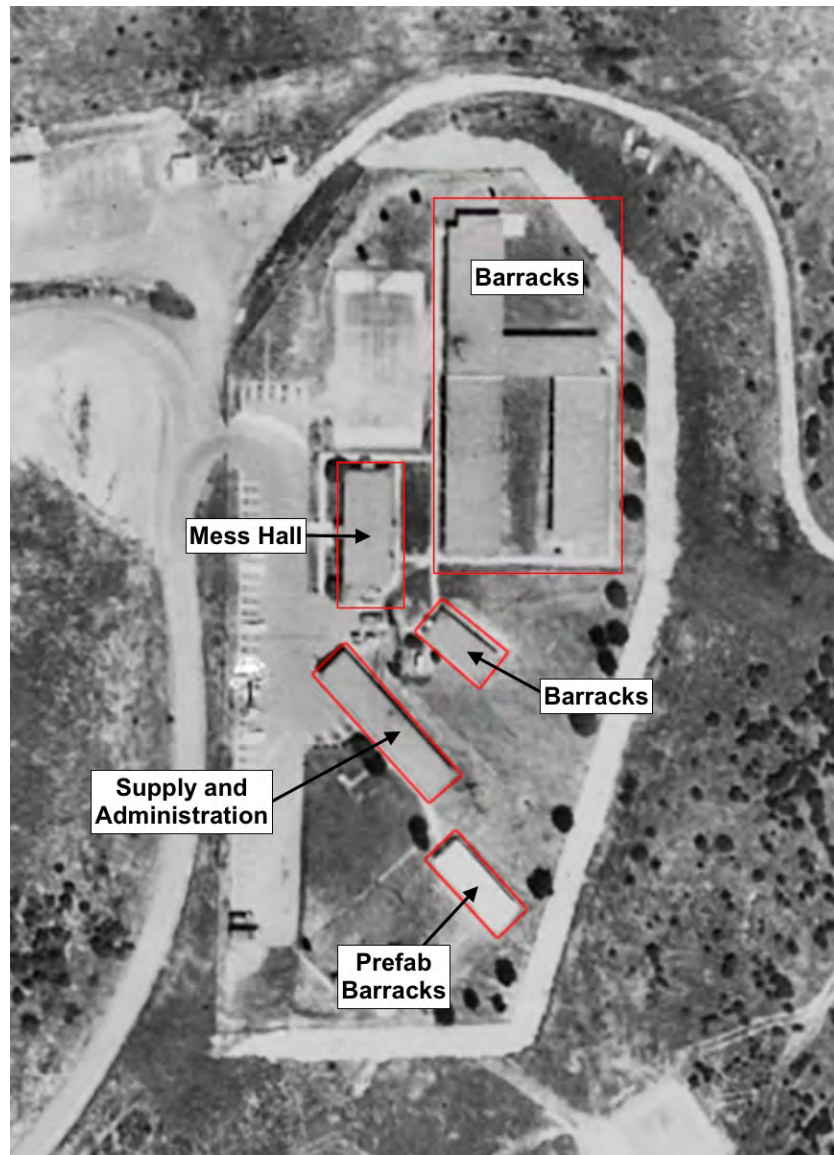


Figure 19: Aerial Photo of SF-31A, 1965

The Administrative area (SF-31A) was about 1000 feet east of the Launcher area and consisted of one large and two small barracks buildings, a mess hall, and a combined supply and administration building. (Sebby 2016). This area is currently used by the East Bay Regional Park public safety division and appears to be largely intact.

The base was initially staffed by Company A of the 441st Anti-Aircraft Artillery Battalion (1955-1958), followed by Company A, 4th Battalion, 67th Air Defense Artillery Regiment (1958-1963) and Company B, 1st Battalion, 250th Air Defense Artillery Regiment (1963-1974). Commanders of SF-31 included Captain John Ringer (1955), Captain Thomas B. Dodgen (1957, 1958), and Major James R. Vanderveen (1974) (*Oakland Tribune* 1958, 1974; Strobel 1955).

The project area, located on Fairmont Ridge above Lake Chabot, was about 1.1 miles west of SF-31L and SF-31A (Sebby 2016). Its location gave it “360-degree line of site radar coverage by the Site’s tracking and search radar system” (Sebby 2016). The Control area was located on land leased from Alameda County.

The area layout at SF-31C was the “unconsolidated” type and was laid out on a roughly north-south axis, following the line of Fairmont Ridge.¹ From south to north, the facilities included the Guard Shack, Quarters, Generator Building, Electronic Shop Building, LOPAR and target tracking arrays, HIPAR building, and HIPAR radome.

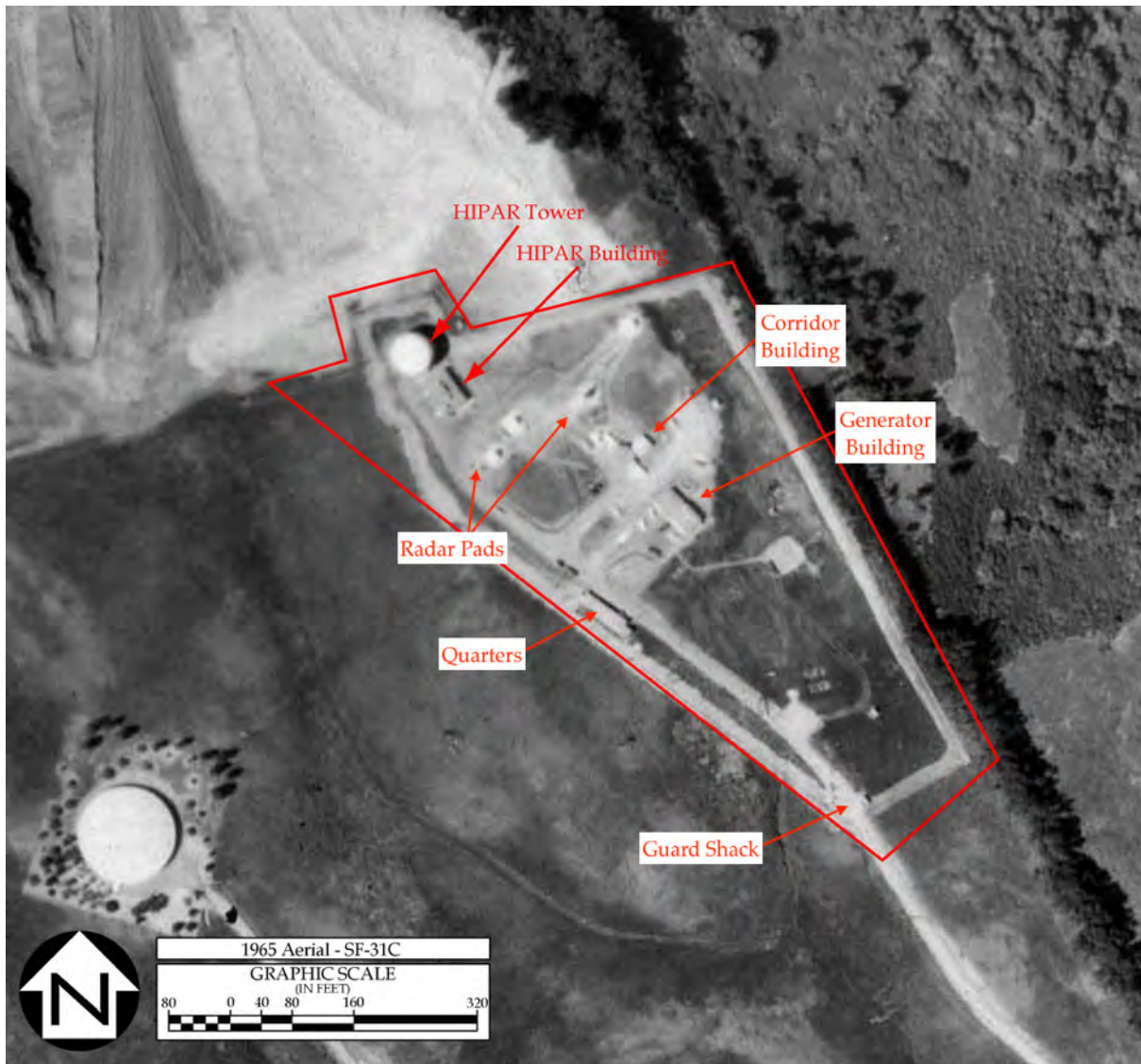


Figure 20: Aerial Photo of SF-31C circa 1965.

¹ Fairmont Ridge runs approximately 20 degrees west of north.

In the late 1950s and early 1960s, SF-31 underwent modifications to accommodate the new Nike Hercules missiles. The magazines in the Launcher area were modified to hold 12 Nike Hercules missiles and new facilities were constructed at SF-31L including missile and warhead assembly, crew readiness, and security buildings (Sebby 2016). The Army installed a High Power Acquisition Radar (HIPAR) system in the Control area to guide the Hercules missiles, acquiring an additional 17.5 acres from the San Leandro Rock Company for this expansion (Sebby 2016). Andel, Inc. of Castro Valley won a contract to construct new concrete radar pads in 1961, presumably as part of the Hercules retrofit (*Oakland Tribune* 1961).

Life on Nike bases was sometimes described as lonely, since the bases, although often defending urban areas, were in sparsely settled areas like that around Lake Chabot. Because each part of the base had to be staffed 24 hours a day, the soldiers manning SF-31C slept and ate at the Control area in the quarters building. Most of the soldiers assigned to Nike bases were teenage draftees, with a small number of older, trained technicians. The small percentage of married men stationed at the bases usually had local homes and spent 3-4 nights a week there (Craib 1955).

The bases had some entertainment facilities such as a day room with television sets, ping-pong and pool tables and athletic courts (Craib 1955, *Oakland Tribune* 1956a). The Red Cross had program for volunteers to visit the East Bay Nike bases regularly to serve refreshments and help the soldiers feel like part of the community (*Oakland Tribune* 1956b). Soldiers from SF-31 at Lake Chabot participated in Castro Valley parades (*Oakland Tribune* 1959) and helped fight local fires. When EBMUD asked how they could thank them for their help, the one of the men replied that they just wanted to be allowed to fish in the lake (*Oakland Tribune* 1958). The project area garnered some attention in local newspapers in 1955, when soldiers at the base adopted a 10-year-old Castro Valley boy, Richard Briggs, who began coming to the base every day during construction. Soon he was guarding the base with a BB gun and doing KP duty, with permission from the base commander, Capt. John Ringer (Strobel 1955).

Decommissioning

At some point in the late 1960s, EBMUD sold part of the land the Nike base SF-31 was located on (most likely SF-31L and SF-31A, on the other side of Lake Chabot from SF-31C) to the South County Community College District, who continued to lease the land to the US Army (*Oakland Tribune* 1970, 1975). These parts of the base are currently used as East Bay Regional Park Police headquarters. In 1974, the Army deactivated SF-31 and returned control of the leased site to the property owners (Sebby 2016). The project area was returned to Alameda County's control at this time. A closing ceremony was held at the project site and attended by Lt. Gen. Raymond L. Shoemaker, commander of the US Army Air Defense, and other dignitaries (*Oakland Tribune* 1974). Since then, the former fire control facilities within the project area have been periodically used by the sheriff, by HAM radio operators, or stood vacant.

SIGNIFICANCE EVALUATION

Framework for Evaluation

Under CEQA, local agencies must consider whether projects will cause a substantial adverse change in the significance of a historical resource, which is considered to be a significant effect on the environment. A “historical resource” is a resource determined eligible for the National Register of Historic Places (NRHP), the California Register of Historical Resources (CRHR), or local registers by a lead agency (14 Code of California Regulations [CCR] §15064.5), while a “substantial adverse change” can include physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings” that impairs the significance of an historical resource in such a way as to impair its eligibility for Federal, State, or local registers.

The California Register of Historical Resources

In 1992, Assembly Bill 2881 added Section 21084.1 to the Public Resources Code (i.e. the CEQA statute), which provided more specific guidelines for identifying historic resources during the CEQA process:

A project that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment. For purposes of this section, an historical resource is a resource listed in, or determined eligible for listing in, the California Register of Historical Resources.

Consequently, under §21084.1, an historic resource eligible for the California Register would by definition be an historic resource for purposes of CEQA compliance. The Final Regulations for nominating resources to the California Register were published in January, 1998.

Under the regulations, a number of historic resources are automatically eligible for the California Register if they have been listed in and determined eligible for the National Register of Historic Places or the California Historic Landmarks program (landmarks 770 or higher). Historic resources included in local inventories or designated under local ordinances can also be presumed eligible if they meet certain criteria. The Lake Chabot Nike Missile Base had not previously been evaluated under any local, state or national historic resource criteria.

In order for a resource to be eligible for the California Register, it must meet three criteria: 1) be eligible under one of the four criteria of significance, 2) retain historic integrity and 3) be fifty years old or older (except in rare case where the resource meets a higher level or “exceptional” level of significance).

Integrity Analysis

Lake Chabot Nike Base and SF-31C

The California Register regulations define "integrity" as "the authenticity of a property's physical identity, evidenced by the survival of characteristics that existed during the property's period of significance." That is, it must retain enough of its historic character or appearance to be recognizable as an historical resource. The "period of significance" needs to date from fifty years ago or more. California Register regulations specify that integrity is a quality that applies to historic resources in seven ways: location, design, setting, materials, workmanship, feeling and association (see attached for definitions of aspects of historic integrity). A property must retain most of these qualities to possess integrity.

The Lake Chabot Nike Missile Base retains a high level of historic integrity, especially compared to the seven Bay Area Nike Missile Bases where at least some of the original features are still extant. The historic integrity of the base's Control area (SF-31C) is especially good compared to other surviving Nike Missile Bases. The original setting and location of the buildings, road and site (terracing, radar platforms, vegetation, and fence lines) have not been altered in area SF-31C. The overall integrity of design and materials of four of the five simple concrete block buildings, and of the metal addition to the Corridor Building, is excellent. However, the Quarters Building lacks integrity of materials and design due to its collapsed roof and extensive interior damage, though the concrete block walls however appear to be structurally sound.

The buildings at the Administrative Area (SF-31A) and Launch Area (SF-31L) were not visited for this report. However, review of recent aerial photographs shows that both areas have very good integrity, in that all of the buildings present in 1965 are still standing. Few Bay Area Nike bases retain any launch area features, and only three others retain all base three components in a good state of preservation.

The overall integrity of feeling and association of the Lake Chabot Nike Missile Base is high. The Control Area, in particular, is able to evoke the feeling of visiting the base during its period of significance. In conclusion, the Lake Chabot Nike Missile Base retains integrity of location, design, setting, materials, feeling and association. (The integrity of "workmanship" is not relevant to assessing this particular historic property).

San Francisco Bay Area Nike Bases

There were 12 San Francisco Bay Area Nike missile sites. Below we review the condition of the Nike sites in the region and their components (C= Control Area; L= Launcher Area; A= Administrative Area). The information below is based on Morgan and Berhow (1995), Wikipedia (2019), the Nike Historical Society (2019), and acme.com (2019), along with review of aerial photographs.

Taken as a whole, SF-31 appears to be among one of the best-preserved ensembles. All of the Launcher area buildings appear to be intact, the Control area has all of its original buildings (despite their poor interior condition), and the Administrative area's original buildings remain in use. SF-31 is in the best-preserved group; after SF-88 at Fort Barry it may be the best-preserved Bay Area Nike site.

Good to Excellent Condition, Retain Integrity

Four of the 12 other Bay Area Nike sites are well preserved and clearly have enough integrity to convey their significance.

SF-88: Fort Barry/Sausalito

- L, A: Intact and restored to operational status. Currently functions as a Nike museum within Golden Gate National Recreation Area (GGNRA)
- C: Generator, Corridor, HIPAR, and quarters buildings present, in poor condition

SF-31: Lake Chabot

- L – Intact, with many later additions. used as corporation yard for EBRPD
- A – Intact, used as EBRPD public safety headquarters
- C – All original buildings present, though some in poor condition

SF-25: Rocky Ridge/Bollinger Canyon

- L: Redeveloped as Tracor Aerospace facility, largely intact
- A: EBRPD Park Offices, buildings appear intact
- C: HIPAR and corridor building intact, others demolished

SF-59: Fort Funston/Mt. San Bruno

- L – partial, parking lot for GGNRA
- A – Intact, used as Environmental Science and Air Monitoring Center for GGNRA
- C – Quarters, Generator building, HIPAR building intact

Fair Condition, Retain Partial Integrity

Three sites retain fair integrity; of these, only SF-37 has Control area buildings intact.

SF-37: Coyote Hills/Newark

- L – Filled and graded
- A – Buildings used as Regional Park visitor's center
- C – Only HIPAR and Generator building present; used as EBRPD and Alameda County Sheriff's Office

SF-91: Angel Island

- L, A – Intact, though buildings are closed. Site is part of Angel Island State Park
- C – Only pads survive

SF-93: San Rafael

- L – A few buildings on the campus of the Marin County Waste Water treatment facility are from the Nike Base
- A – Intact, used as a youth guidance center
- C – Buildings demolished; tower bases and pads only are present

Poor Condition, Lacking Integrity

Five Bay Area Nike sites lack integrity and have been mostly or entirely demolished.

SF-08: San Pablo Ridge

SF-09: San Pablo Ridge/Berkeley

- These two bases, now in Wildcat Canyon Regional Park, shared a Control and Launcher Area and have been entirely demolished

SF-51: Milagra/Pacifica

L, A – Only building pads survive

C – Several buildings and pads present, but lack roofs and appear badly deteriorated

SF-87: Fort Cronkite/Sausalito

L – Redeveloped as GGNRA California marine mammal center, original buildings demolished

A – A few buildings left on periphery of parking lot in a corporation yard setting

C – Concrete pads present, no buildings

SF-89: Fort Winfield Scott/Mt. Sutro

L – Pads visible, no buildings remain

A – Administration buildings remain in area

C – No buildings remain

Significance Evaluation

This section evaluates the buildings in the project area under the four criteria of the California Register.

Criterion 1: *The resource is associated with events or patterns of events that have made a significant contribution to the broad patterns of local and regional history.*

Site SF-31C was the Integrated Fire Control Area for Nike Missile Site SF-31, constructed in 1955, which held both Nike-Ajax and Nike-Hercules surface-to-air missiles before being decommissioned in 1974. Hosting the command and control functions of the base, SF-31C was one of three functional areas of the Nike Missile Base which included the Launch Area (31L) and the Administrative Area (31A). The Nike system was the world's first surface-to-air missile system and was intended to defend the United States against nuclear-armed bombers. The San Francisco Bay Area, then home to many military bases and critical defense infrastructure, was ringed by 12 Nike installations by the late 1950s.

The conclusion of this report is that four of the five buildings at SF-31C are contributing resources to a California Register-eligible Lake Chabot Nike Missile Base Historic District (which includes buildings and features at areas SF-31L and SF-31A) because they are significant under California Register Criteria 1 as defined in CEQA §15064.5. The contributing buildings are the Guard Shack, Generator Building, Corridor Building, and HIPAR Building. The Quarters Building and the Radar Storage Shed addition to the Corridor Building are not contributing resources to the proposed district.

As one of the three or four best preserved of the original 12 Nike installations in the Bay Area, the Lake Chabot Nike Missile Base retains most of the important features of the original Nike Missile Base, a historically significant technological advance in the history of United States military defenses. The period of significance is 1955 to 1974. However, since the buildings were designed to function as an ensemble, no single building has the potential to evoke the significance of a Nike base as a whole. Therefore, none of the buildings at SF-31C appear to be eligible individually for the California Register.

Criterion 2: *The resource is associated with the lives of persons important to the nation or to California's past.*

Historic research did not identify any significant figures in history associated with the Lake Chabot Nike Missile Base, thus the buildings do not appear to be significant under California Register Criterion 2.

Criterion 3: *The resource embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of a master, or possesses high artistic values.*

The concrete block buildings in area SF-31C are typical of their period and do not represent an innovative design or high artistic values. They were constructed to a generic Nike base design developed by the US Army Corps of Engineers and implemented throughout the United States and several foreign countries. They are thus not sufficiently exceptional or distinguished examples of military architecture in the East Bay to be eligible under California Register Criterion 3. The same is true of the buildings at the other areas of the Lake Chabot Nike base.

Criterion 4: *The resource has the potential to yield information important to the prehistory or history of the state or the nation.*

Criterion 4 applies primarily to archaeological sites. The area SF-31C buildings were constructed using standard techniques for concrete block construction common during the mid 20th century. The buildings would not yield information important to history or prehistory thus the buildings are not eligible under Criterion 4.

Contributing Elements to Potential Historic District

As noted above, the Lake Chabot Nike Missile Base appears eligible for the California Register as a historic district under Criterion 1. Below the contributing elements to the potential district are listed by base area. Please note that the lists for SF-31A and SF-31L are based on review of archival sources only; no field recording was completed for these base areas and therefore these findings should be considered preliminary.

SF-31A: Administrative Area

Nike base administrative areas “contained the barracks, mess hall, recreational facilities, and administrative offices for the battery” (Morgan and Berhow 2010:20). SF-31A include three barracks buildings, a mess hall, and a combined supply/administration building. All five of these buildings are still standing and have the same floor plan and very similar external appearance as when they were first constructed. They are used by EBRPD as part of its fire and police headquarters facility. Four of the five buildings appear to be contributing elements to the potential historic district. The fifth, described as a ‘prefabricated building’ on 1965 plans, is of a different design and materials to the original buildings and does not appear to be eligible.

Table 1: Contributing Status of Buildings at the Administrative Area

Building	Contributing?	Notes
Barracks 1	Y	Main barracks building – likely had recreation facilities as well
Barracks 2	Y	
Prefab Barracks	N	Prefabricated building in different materials, added 1965
Mess Hall	Y	
Supply/Admin	Y	



Figure 21: Buildings at SF31-A, 2019



Figure 22: Buildings at SF31-L, 2019

SF-31L: Launch Area

Nike base launch areas included 2-3 magazines, each with an elevator. Inside the magazines there were a “missile storage bay with launcher loading, racks, crew shelter, launching section control panel, ventilation equipment, test equipment hydraulic controls and the elevator.” Other launch area facilities included “missile assembly and testing building, a liquid fueling area, a power generating facility, storage and repair buildings, sentry posts, and a nearby ready room. The entire launch complex was surrounded by a security fence topped with barbed wire” (Morgan and Berhow 2010:14). The liquid fueling area was surrounded by a distinctive semicircular earthen berm, presumably to contain accidental explosions or fires.

Today, SF-31L is used as an EBRPD corporation yard. The two magazine elevator doors are still clearly visible on aerial photographs, though whether any underground elements survive is unknown. The missile assembly building, liquid fueling area and surrounding earthen berm, generator building, and dog kennel are all visible on aerial photographs. The dog kennel appears to be in disrepair and is not a contributing element to this base area. The other buildings, however, do appear to be eligible because they retain their original layout and materials, and because very few San Francisco Bay Area Nike launch area buildings survive in good condition.

Table 2: Contributing Status of Buildings at the Launch Area

Building	Contributing?	Notes
Launch Elevators	Y	Possible underground elements
Missile Assembly	Y	
Liquid Fueling	Y	
Earthen Berm	Y	
Dog Kennel	N	Dilapidated, not part of standard Nike base design

SF-31C: Integrated Fire Control Area

SF31-C includes four buildings which contribute to the potential California Register district, including the Guard Station, Generator Building, Corridor Building (excluding the Radar Storage Shed), and HIPAR Building. (The HIPAR Building is outside the current project area.) We find these buildings to be eligible for the following reasons:

- The Guard Station is somewhat deteriorated but retains its structural integrity and clearly evokes the experience of entering the base during its period of significance.
- The Generator Building, Corridor Building, and HIPAR Building retain their integrity of location, design, setting, materials, feeling, and association and are typical examples of this now-rare type of Nike facility. Together, the three buildings represent the main functions of a Nike Control area (electrical power, target acquisition, signal processing, and targeting).

By contrast, the Quarters Building and the Radar Storage Shed do not appear to be eligible. The Quarters Building is dilapidated and has major structural defects, so that it lacks integrity of materials. Compared to the two surviving barracks buildings at SF31-A, the Quarters Building is small and a minor example of a residential structure on the Nike Base. The Radar Storage Shed, which is attached to the Corridor Building, is a corrugated metal building built as a later addition. The design of this later addition is not compatible with the other Nike Base buildings and apparently its function is not related to the IFC's function during its period of significance. For that reason, the Radar Storage Shed does not appear to be a contributing resource to the potential California Register historic district.

Table 3: Contributing Status of Buildings at the Control Area

Building	Contributing?	Notes
Guard Station	Y	
Quarters Building	N	Lacks integrity; several better-preserved barracks present at SF-31A
Generator Building	Y	
Corridor Building	Y	Radar Storage Shed addition to this building is not contributing
HIPAR Building	Y	Outside project area

Conclusion

In conclusion, four of the five buildings at SF-31C at the Lake Chabot Nike Missile Base appear eligible as contributing resources to a California Register-eligible historic district because they retain historic integrity and are significant under Criterion 1. At SF-31A, four buildings appear to be contributing resources, while at SF-31L three buildings, one earth feature, and two in-ground features appear to be contributing resources.

IMPACT ASSESSMENT

Alameda County proposes to demolish the Radar Storage Shed and the Quarters Building at SF-31C. As noted above, the Radar Storage Shed is a later addition to the Corridor Building, is architecturally unrelated to the other buildings on the base, and has no relationship to the function of the Control area. The Quarters Building is badly dilapidated and lacks integrity of design and materials, since much of the interior has been destroyed. It is also the least significant of several barracks buildings that remain on the base. Given this, neither of these buildings appear to be eligible to the California Register as contributing elements of the potential Nike SF-31 historic district.

In conclusion, the demolition of the Radar Storage Shed and the Quarters Building would not cause a substantial adverse change to the potential Lake Chabot Nike Base historic district; thus it would not be a significant effect under CEQA (Section 15064.5 of the CEQA Guidelines).

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Appendix A: Record Search Results



5/23/2019

NWIC File No.: 18-2232

Daniel Shoup
Archaeological/Historical Consultants
609 Aileen Street
Oakland, CA 94609

re: 19-10 San Leandro Nike Missile Base

The Northwest Information Center received your record search request for the project area referenced above, located on the Hayward USGS 7.5' quad. The following reflects the results of the records search for the project area and a 0.25 mile radius:

Resources within project area:	None
Resources within 0.25 mile radius:	None
Reports within project area:	None
Reports within 0.25 mile radius:	S-11774

Resource Database Printout (list):

Resource Database Printout (details):

Resource Digital Database Records:

Report Database Printout (list):

Report Database Printout (details):

Report Digital Database Records:

Resource Record Copies:

Report Copies:

OHP Historic Properties Directory:

Archaeological Determinations of Eligibility:

CA Inventory of Historic Resources (1976):

Caltrans Bridge Survey:

Ethnographic Information:

Historical Literature:

Historical Maps:

Local Inventories:

GLO and/or Rancho Plat Maps:

Shipwreck Inventory:

☐ enclosed ☒ not requested ☐ nothing listed

☐ enclosed ☒ not requested ☐ nothing listed

☐ enclosed ☐ not requested ☒ nothing listed

☐ enclosed ☒ not requested ☐ nothing listed

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***Notes:**

****** Current versions of these resources are available on-line:

Caltrans Bridge Survey: <http://www.dot.ca.gov/hq/structur/strmaint/historic.htm>

Soil Survey: <http://www.nrcs.usda.gov/wps/portal/nrcs/surveylist/soils/survey/state/?stateId=CA>

Shipwreck Inventory: <http://www.slc.ca.gov/Info/Shipwrecks.html>

Please forward a copy of any resulting reports from this project to the office as soon as possible. Due to the sensitive nature of archaeological site location data, we ask that you do not include resource location maps and resource location descriptions in your report if the report is for public distribution. If you have any questions regarding the results presented herein, please contact the office at the phone number listed above.

The provision of CHRIS Data via this records search response does not in any way constitute public disclosure of records otherwise exempt from disclosure under the California Public Records Act or any other law, including, but not limited to, records related to archeological site information maintained by or on behalf of, or in the possession of, the State of California, Department of Parks and Recreation, State Historic Preservation Officer, Office of Historic Preservation, or the State Historical Resources Commission.

Due to processing delays and other factors, not all of the historical resource reports and resource records that have been submitted to the Office of Historic Preservation are available via this records search. Additional information may be available through the federal, state, and local agencies that produced or paid for historical resource management work in the search area. Additionally, Native American tribes have historical resource information not in the CHRIS Inventory, and you should contact the California Native American Heritage Commission for information on local/regional tribal contacts.

Should you require any additional information for the above referenced project, reference the record search number listed above when making inquiries. Requests made after initial invoicing will result in the preparation of a separate invoice.

Thank you for using the California Historical Resources Information System (CHRIS).

Sincerely,

Lisa C. Hagel
Researcher



5-11774

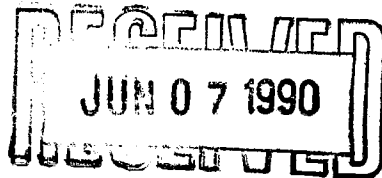
holman & ASSOCIATES

Archaeological Consultants

"SINCE THE BEGINNING"

3615 FOLSOM ST. SAN FRANCISCO,
CALIFORNIA 94110 415/550-7286

John Pelka
EDAW
753 Davis Street
San Francisco, CA 94111



May 3, 1990

Dear Mr. Pelka,

RE: ARCHAEOLOGICAL FIELD INSPECTION OF THE PROPOSED LAKE CHABOT TERRACE
PROJECT, SAN LEANDRO, ALAMEDA COUNTY, CALIFORNIA

During the first week of May, 1990, I completed an archaeological field inspection of the above referenced project area in the city of San Leandro, Alameda County, California. The following report is a summary of my findings to date.

PROJECT DESCRIPTION

The proposed Lake Chabot Terrace project area consists of an approximately 60 acre parcel comprising the former grounds of the San Leandro Rock Company Quarry site located on the south side of Lake Chabot Road in the hills of San Leandro. Located on the Hayward U.S.G.S. topographic map of the area, the parcel is bordered on the north by Lake Chabot Road, on the west by the Bay-O-Vista neighborhood and country club, on the south by open steep hillside and on the east by hillside which rises up from the quarry. According to maps supplied by EDAW, the proposed development will occur inside area which has been used as a quarry until three years ago.

At the time of my visit quarrying activity had ceased at the site, leaving the entire landscape with the exception of the western border altered by the quarrying activity; all the flats inside the project area have been artificially created, and all existing sloped areas are also the result of rock removal. Three structures are to be found on the property, one a house dating approximately to the 1930's, a small shed near the drainage and a larger metal building located to the south of the existing wooden house. As I stated earlier, only the drainage which forms the border between the quarry and the country club is anywhere near in original shape; dropping steeply from the graded flats of the quarry, this area contains a combination of native and imported grasses, some shrubbery and a row of pine trees which were probably planted as a wind break.

SUMMARY OF ARCHIVAL RESEARCH

Prior to the actual field inspection, maps and records on file at the California Archaeological Inventory located at Sonoma State University were checked for any evidence of recorded historic or prehistoric sites in and around the project area. In a response received from Ms. Lisa Hagel of the Inventory dated April 19, 1990 (file #90-179), she reported that there were no sites recorded in or around the project area, and that there were no sites recorded for the immediate vicinity of the project zone.

DESCRIPTION OF FIELD INSPECTION

The actual field inspection was carried out by myself with the aid of a large scale topographic map supplied by EDAW. Since archaeological material could have been located anywhere inside the project area, I chose to inspect as much of the ground as was available which did not appear to have been graded away. This turned out to be only the western edge of the property which runs down to the Bay-O-Vista Country Club. Both the slope of this area and the fairly flat bottom were inspected completely. No archaeological materials were discovered anywhere inside this area.

SUMMARY OF FINDINGS

No indications of prehistoric habitation or use of this area was discovered anywhere inside the project zone. This is not a surprise, since the quarrying there has altered or removed over 90% of the ground. The remainder of the area, including the western border which slopes down to the country club, is too steep to have held habitation sites or most types of use sites other than quarries (those utilized by the Native Americans). No signs of quarrying activities or other outcrops of rock which could have held evidence of rock art (petroglyphs or pictographs, mortar holes or cupules) were seen in this area or any other area.

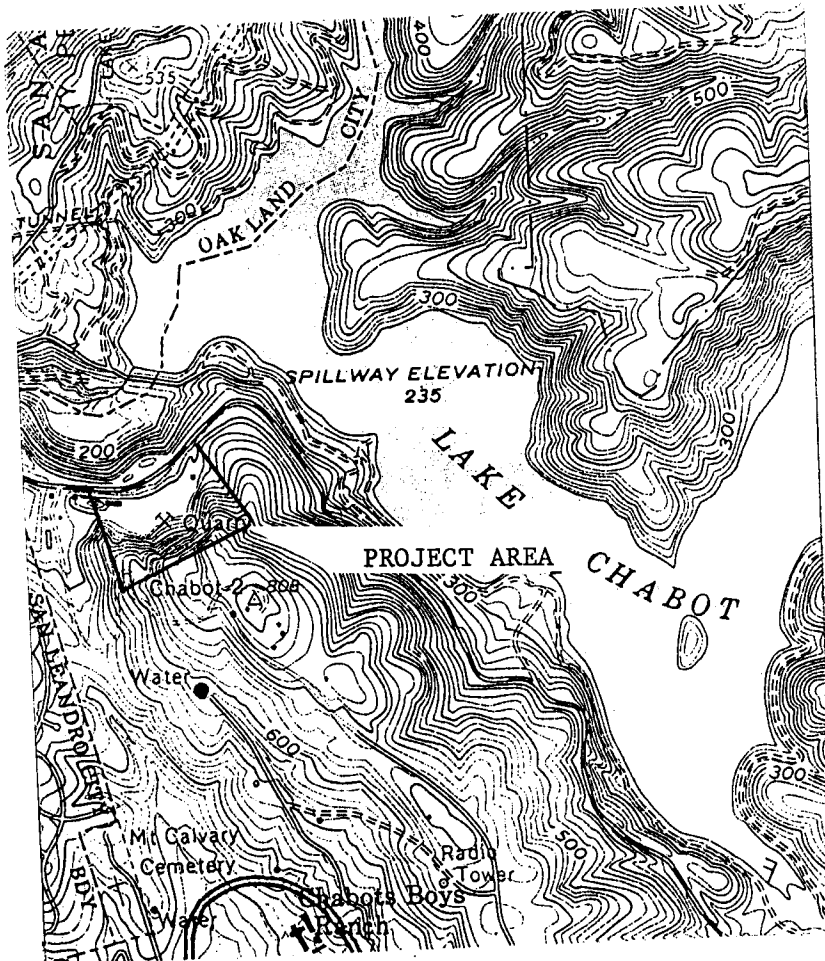
The only potentially significant cultural resource is the house which is located on the knoll on the northern edge of the property. This house, in excellent shape, appears to have been built some time in the twenties or thirties in a style known loosely as a California Bungalow. I do not however, believe that this house in itself is significant enough to warrant mitigation; numerous examples of its style exist throughout the San Leandro area. Furthermore this house does not exhibit any unique architectural features. In short, future development of the quarry will have no visible effects on cultural resources.

Sincerely,

Miley Paul Holman
Holman & Associates

LAKE CHABOT TERRACE AREA OF ARCHAEOLOGICAL RESEARCH

HAYWARD U.S.G.S. TOPOGRAPHIC MAP



Appendix B: DPR 523 Forms

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary #

HRI #

Trinomial

NRHP Status Code

3D

Other Listings

Review Code _____ Reviewer _____ Date _____

Page 1 of 16

*Resource Name or #: Nike Missile Site SF-31C

P1. Other Identifier:

*P2. Location: ☐ Not for Publication ☒ Unrestricted

*a. County Alameda and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad Hayward Date 1993 T ; R ; Rancho San Antonio (V & D Peralta); MD B.M.

c. Address 2892 Fairmont Drive City San Leandro Zip 94578

d. UTM: Zone 10S 577,650 mE / 4,175,530 mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Formerly the Integrated Fire Control area of Nike missile base SF-31C at Lake Chabot, one of 12 SF Bay Area Nike bases. At SF-31, the Launcher area (SF-31L) and the Administrative area (SF-31A) were on the east side of Lake Chabot, about 1.1 miles southeast of SF-31C.

[SEE CONTINUATION SHEET]

*P3b. Resource Attributes: HP34 (Military Property)

*P4. Resources Present: ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)



P5b. Description of Photo:
Corridor Building (L) and
Generator Building ®

*P6. Date Constructed/Age and
Source:

☒ Historic ☐ Prehistoric ☐ Both
Constructed 1955

*P7. Owner and Address:

Alameda County General
Services Agency
1401 Lakeside Drive. Ste 800
Oakland, CA 94612

*P8. Recorded by:

Daniel Shoup and Ward Hill
609 Aileen Street
Oakland, CA 94609
www.ahc-heritage.com

*P9. Date Recorded: May, 2019

P10. Survey Type: Architectural

*P11. Report Citation: D. Shoup and W. Hill, 2019. *Historic Resource Evaluation Report of Nike Base SF-31C*. Archaeological/Historical Consultants, Oakland

*Attachments: ☐ NONE ☒ Location Map ☒ Continuation Sheet ☒ Building, Structure, and Object Record

☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record

☐ Artifact Record ☐ Photograph Record ☐ Other (List): _____

BUILDING, STRUCTURE, AND OBJECT RECORD

*Resource Name or # Nike Missile Base SF-31C

*NRHP Status Code 3D

Page 2 of 16

B1. Historic Name: Nike Missile Base SF-31C

B2. Common Name:

B3. Original Use: Military Base

B4. Present Use: Vacant/Storage

***B5. Architectural Style:**

Built to Standard US Army Corps of Engineers plans for Nike missile bases. Cinderblock construction with flat roof.

***B6. Construction History:**

Built 1955, modified 1965, decommissioned 1974.

*B7. Moved? ☒ No ☐ Yes ☐ Unknown Date:

Original Location:

*B8. Related Features: None

B9a. Architect: Army Corps of Engineers

b. Builder: Army Corps of Engineers

*B10. Significance: Theme National Defense

Area San Francisco Bay Area

Period of Significance 1955-1974

Property Type

Military

Applicable Criteria 1

Site SF-31C was the Integrated Fire Control Area for Nike Missile Site SF-31, constructed in 1955, which held both Nike-Ajax and Nike-Hercules surface-to-air missiles before being decommissioned in 1974. Hosting the command and control functions of the base, SF-31C was one of three functional areas of the Lake Chabot Nike Missile Base which included the Launch area (SF-31L) and the Administrative area (SF-31A). Areas SF-31L and SF-31A are now part of the Lake Chabot Regional Park. The Nike system was the world's first surface-to-air missile system and was intended to defend the United States against nuclear-armed bombers. The San Francisco Bay Area, then home to many military bases and critical defense infrastructure, was ringed by 12 Nike installations by the late 1950s.

[SEE CONTINUATION SHEET]

B11. Additional Resource Attributes:

***B12. References:**

[SEE CONTINUATION SHEET]

B13. Remarks:

*B14. Evaluator: Daniel Shoup and Ward Hill

*Date of Evaluation: May, 2019

(This space reserved for official comments.)

(Sketch Map with north arrow required.)

CONTINUATION SHEET

Property Name: Nike Missile Base SF-31C

Page 3 of 16

*P3a. Description (Continued):

Setting

The Control area for Nike SF-31 is located at on a 1.43-acre parcel at the north end of Fairmont Ridge, at approximately 800 feet elevation. SF-31C consists of five buildings arranged on a north/south axis. From south to north, they are the Guard Station, Quarters Building, the Generator Building, Corridor Building (with attached Radar Storage Shed) and the HIPAR building. The buildings are located on terraces that slope downward from north to south. A perimeter chain link fence surrounds the entire Control area. To the east of the property, eucalyptus wind rows mark the crest of Fairmont Ridge, while the rest of the vicinity is steep, hilly, and covered with open grassy fields. The views to the west from the site include the cities of San Leandro and Oakland, while Lake Chabot is visible to the east.

In addition to the five buildings, the Control area has several circular concrete tracking radar pads and a water storage tank (modern) set on concrete piers. Various concrete pads and asphalt covered parking areas are adjacent to the buildings. Concrete stairs and the access road join the three levels of the terraced site. The Quarters Buildings and the Generator Building are on the south, with the Corridor Building at mid-level then the HIPAR Building and Antenna at the site's highest elevation. The Guard Station is at the lowest elevation at the bottom of the hill adjacent to the access road leading up to the main building complex. All the buildings on the site are constructed of concrete block, with the exception of two additions: a Radar Storage Shed built of corrugated metal is attached to the Corridor Building, while the Quarters Building has a wood-frame addition on its west side.

Guard Station

From Fairmont Avenue, the access road leads approximately one mile up to the entrance to SF-31C. Here, one would pass a small Guard Station on the right-hand side of the road adjacent to a locked gate leading into the restricted-access facility. The guard station is rectangular in plan, constructed of concrete block, and measures 6 by 8 feet. It sits on a flat concrete pad. It has a flat roof with wide eaves, an opening for a single hinged door on the west and a single, wood-sash, double-hung window on each of the three facades. The original door and window glass are missing, and the interior is now very deteriorated. The access road continues up a steep hill to the north to the main building complex set on the top of the ridge.

Quarters Building

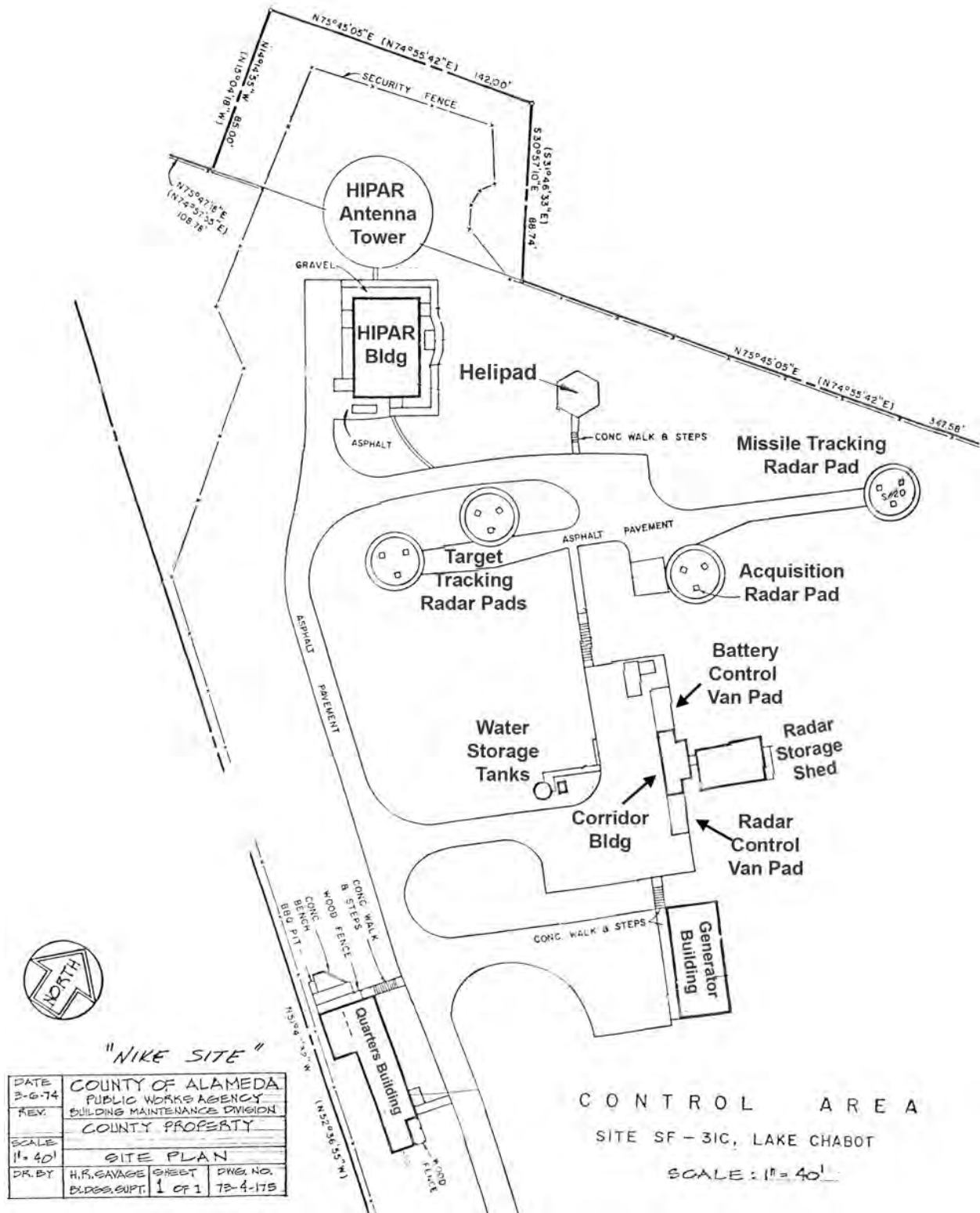
Ascending the hill from the Guard Station, the Quarters Building (also known as Building D) is at the south end of the main building complex on the west side of the access road. The Quarters Building sits on the edge of a steep hill. Made of concrete block, the Quarters Building has an L-shaped plan (with a recess at the southeast corner) and a flat roof (with shallow eaves) covered with tar and gravel. The building is 64 feet long and 18 feet wide on the north, narrowing to 12 feet on the south (1,320 square feet). The building has wood sash, double-hung windows - now covered over with plywood - on the east and west façades. Concrete steps lead down from the access road to the main building entrance on the north. A concrete bench and a barbeque area are adjacent to the north façade. On the west side of the building, a wood-framed addition projects out over the hill slope. This addition was built between 1965 and 1974.

CONTINUATION SHEET

Property Name: Nike Missile Base SF-31C

Page 4 of 16

***P3a. Description (Continued):**



CONTINUATION SHEET

Property Name: Nike Missile Base SF-31C

Page 5 of 16

*P3a. Description (Continued):

Inside, the Quarters Building is divided into two major spaces arranged on a north/south axis. In the main space on the south, the roof has collapsed resulting in extensive water damage, mold and dry rot deterioration to the interior. The interior originally included a kitchen, a living area and a sleeping area for the approximately 10 military personnel posted to area SF-31C.



Clockwise from upper left: Guard Station; Quarters Building; Corridor Building and Radar Storage Shed; Generator Building.

The Generator Building (Building C)

The Generator Building is directly east of the Quarters Building, across the access road and an asphalt parking area. The rectangular-plan (25 by 56 feet), concrete block Generator Building has a flat roof with shallow eaves. A variety of ventilating equipment is on the roof. The main west façade opens out to an asphalt paved parking area on the west. Viewed from the west façade, the building has two sections: a taller section on the right (south), which held the generator machinery, and a lower and somewhat narrower section on the left (north). The taller south section has three garage openings now covered with plywood. A pair of ventilation grates is above each opening. The lower section on the north also has three openings for

CONTINUATION SHEET

Property Name: Nike Missile Base SF-31C

Page 6 of 16

***P3a. Description (Continued):**

doors now covered with plywood. The north façade has a single hinged door and an adjacent window. Inside the main generator floor occupies most of the interior (1,400 square feet). This open free space has exposed aluminum roof trusses supporting an aluminum plate roof. An adjacent room on the north appears to be a shop area and for storing parts. No generator equipment remains inside the building, which has extensive mold damage and is used to store miscellaneous items.

Corridor Building & Radar Storage Shed (Building B)

A concrete staircase leads up from the Generator Building to the Corridor Building (and the later addition Radar Storage Shed to the east). The Corridor Building (also called the electronic shop building) was used to connect mobile communications and computer vans to one another and to the other equipment at the Control area.

The Corridor Building is on a flat site with adjacent concrete pads: the Battery Control Van Pad on the north and the Radar Control Van Pad to the south. The T-shaped plan Corridor Building is constructed of concrete block. The overall dimensions are 20 by 5 feet with a central three-foot-wide extension at the center of the east façade forming the leg of the T. (The Radar Storage Shed, a later addition, is attached to the Corridor Building via this extension). The Corridor Building has hinged doors on each side of the main west façade. Inside, it has a single room with wood paneling, vinyl floor covering and acoustical tile ceiling with fluorescent lighting. Obsolete computer and radio equipment are stored in the room.

Radar Pads

A second concrete staircase leads to the upper terrace, where four concrete radar pads and the HIPAR building are located. Nike Control areas had four small rotating radar units, which were mounted on tripods fixed to concrete pads. These radars provided target tracking, target acquisition, and missile tracking capabilities. The four radar pads are oriented in an east-west line and measure approximately 15 feet in diameter.

High Power Acquisition Radar (HIPAR) Building (Building A) and HIPAR Antenna Tower

North of the radar pads stand the HIPAR Building and adjacent antennas, which will not be affected by the project. A chain link fence surrounds this concrete block building which has a flat tar and gravel roof and metal doors on each façade. The building measures 34 by 50 feet (1,700 square feet) and is rectangular in plan. The interior was not accessible. The modern radar dishes on the building and the Antenna Tower are part of the Alameda County Sheriff's Office communications and Emergency Response System, and are not associated with the building's original use as part of the Nike Missile Base. It was unclear whether any of the existing antenna masts were once part of the HIPAR radome.

CONTINUATION SHEET

Property Name: Nike Missile Base SF-31C

Page 7 of 16

***P3a. Description (Continued):**



HIPAR Building (left) and LOPAR Pad (right)

***B10. Significance (Continued):**

The Nike Program

The Nike program, developed by the US Army, was the first operational surface-to-air missile system. The first Nike batteries became operational in 1954, and the program rapidly expanded to cover the entire United States and some allied countries. Each Nike base consisted of three areas: an Administrative area, a Control area, and the Launcher area (Morgan and Berhow 2010:10). For technical reasons, the Control area had to be separated from the Launcher area by 0.5-3.5 miles, though the Launcher and Administrative areas were usually co-located. As a result, Nike bases were usually situated on two separate parcels of land. The typical Launcher area contained four above-ground missile launchers, two or three underground magazines which stored 24 to 32 missiles, a missile assembly and testing building, storage and repair building, and a ready room for on-duty personnel. The Control area contained radar and computer systems that tracked hostile aircraft and guided the missiles to their targets, and were often constructed on high ground. Administrative areas contained the mess hall, barracks, administrative offices, and recreational facilities. All of these structures were built to standard designs developed by the Army Corps of Engineers and were built of cinderblock with flat roofs (Morgan and Berhow 2010:20). Each of the base areas was surrounded by a security fence.

The Nike base system initially used Nike Ajax missiles, two-stage guided missiles powered by a motor using liquid fuel. The Ajax missiles could reach speeds of over 1,600 mph and altitudes of up to 70,000 feet. However, their range was only 25 miles and soon after the Nike base system was initiated, development began on an improved missile, the Nike Hercules. The Nike Hercules missile had a range of about 90 miles, could reach speeds above 2,700 mph and altitudes up to 150,000 feet, and could carry a nuclear warhead (Military Standard 2019).

CONTINUATION SHEET

Property Name: Nike Missile Base SF-31C

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***B10. Significance (Continued):**

The development of intercontinental ballistic missiles after 1965 made the Nike system less valuable for continental defense, and many batteries were decommissioned in the late 1960s. After the 1972 Strategic Arms Limitation Treaty with the Soviet Union, the Nike program was shut down.

Nike in the San Francisco Bay Area

During the late 1950s, the US Army Corps of Engineers acquired land for 12 Nike bases around San Francisco Bay. These bases were commanded from the 6th Region, US Army Air Defense Command at Fort Baker in San Francisco.

- SF-08: San Pablo Ridge
- SF-09: San Pablo Ridge/Berkeley
- SF-25: Rocky Ridge/Bollinger Canyon
- SF-31: Lake Chabot/Castro Valley
- SF-37: Coyote Hills/Newark
- SF-51: Milagra/Pacifica
- SF-59: Fort Funston/Mt. San Bruno
- SF-87: Fort Cronkite/Sausalito
- SF-88: Fort Barry/Sausalito
- SF-89: Fort Winfield Scott
- SF-91: Angel Island
- SF-93: San Rafael

All of these sites except for SF-31, SF-51, and SF-88 were deactivated by 1971. The remaining three were deactivated in 1974 (Lonquest and Winkler 1996:323). The bases today are in varying condition: three are in good condition, four in fair condition, and five are mostly or totally demolished. SF-88 at Fort Barry is now part of the Golden Gate National Recreation Area and is the only Nike site in the United States that is open to the public as a museum.

Nike Base Integrated Fire Control Areas

Integrated Fire Control areas (or Radar Course Directing Centrals in Army technical documents) generated and broadcasted the radar signals used to detect targets, interpreted signal data, and controlled targeting, firing, and detonation of missiles. Control areas were laid out using one of several standardized designs that could be adapted to the topography and size of the available property. The two main types were the "unconsolidated" layout, where each base function was housed in a separate building, and the "consolidated" layout, which saw most of the area's equipment placed in two buildings. SF-31C had an "unconsolidated" layout (Nike Historical Society 2019). The main structures at an unconsolidated layout Control area, such as the project area, were the HIPAR Building, the Radar Arrays (HIPAR, LOPAR, Tracking Radars, the Electronic Shop Building (also called the Corridor Building), the Generator Building, the Quarters Building, and the Guard Shack.

CONTINUATION SHEET

Property Name: Nike Missile Base SF-31C

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*B10. Significance (Continued):

The High Power Acquisition Radar (HIPAR) system was installed at Nike installations that were upgraded for use with Hercules missiles after 1958. HIPAR allowed detection of missiles or aircraft at higher altitude than the previous LOPAR system. It was effective against small, supersonic targets and could defend against tactical ballistic missiles (Lonnquest and Winkler 1996:180).

Low-Power Acquisition Radar (LOPAR) consisted of a rotating directional antenna that contained a receiver and transmitter array, mounted on a circular concrete pad. LOPAR worked similarly to HIPAR, but had a shorter range. After a target was acquired using LOPAR and HIPAR arrays, a Target Tracking Radar (TTR) would follow the target and provide data to the Target Ranging Radar (TRR) displays. After launch of an interceptor missile, a Missile Tracking Radar (MTR) system would monitor the missile's course and transmit guidance commands (Nike Historical Society 2019). The three tracking and ranging radar systems were also mounted on concrete pads.

The Corridor Building served as a bridge between two portable trailers containing the radar control equipment, with one trailer being attached on either end to form a corridor (another name for the building was the "Corridor Building". It was used in Control areas with unconsolidated layouts; in posts with consolidated layouts this equipment was located inside the HIPAR building. Trailers were used because the Nike system was originally designed as a mobile artillery unit before it was adapted for fixed air defense. The battery control trailer (or "trailer mounted director station") provided the battery control officer with the information he needed to direct the battery. The radar control trailer (or "trailer mounted tracking station") held equipment for operating the target acquisition and missile tracking systems, using signals received from the HIPAR building (Military Standard 2019).

The Generator Building held generators and power converters. Most Nike bases ran on normal 60 hertz, 120 volt power, but were furnished with diesel generators in case of emergency. The transformers were used on a continuous basis to convert 60 hertz, 120 volt commercial electricity to the 400 hertz power used by the Nike radars (the generators also produced power at 400hz).

The Quarters Building provided an eating and sleeping area for the crew of 10 assigned to the Control Area. The Guard Shack controlled entry to the complex.

SF-31 at Lake Chabot

The US Army constructed Nike base SF-31 near Lake Chabot in 1955, leasing the land from Alameda County and EBMUD. The base was initially staffed by Company A of the 441st Anti-Aircraft Artillery Battalion (1955-1958), followed by Company A, 4th Battalion, 67th Air Defense Artillery Regiment (1958-1963) and Company B, 1st Battalion, 250th Air Defense Artillery Regiment (1963-1974). Commanders of SF-31 included Captain John Ringer (1955), Captain Thomas B. Dodgen (1957, 1958), and Major James R. Vanderveen (1974) (*Oakland Tribune* 1958, 1974; Strobel 1955).

CONTINUATION SHEET

Property Name: Nike Missile Base SF-31C

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***B10. Significance (Continued):**

The Launcher area (SF-31L) was located approximately 270 yards east of the south end of Lake Chabot and consisted of eight launchers and two magazines that held 20 Nike Ajax missiles, along with a missile assembly building, missile fueling station, generator building, and dog kennel (Sebby 2016). All of the buildings still stand on site, along with a number of buildings built after decommissioning of the Nike Base. The magazine elevator doors are still visible in aerial photographs, though it is unknown whether any of the underground facilities survive.



Nike Base SF-31, with administrative area (SF-31A) in foreground, launcher area (SF-31L) in middle ground, and integrated fire control area (SF-31C, the project area) behind the treeline on the ridge in background.

The Administrative area (SF-31A) was about 1000 feet east of the Launcher area and consisted of one large and two small barracks buildings, a mess hall, and a combined supply and administration building. (Sebby 2016). This area is currently used by the East Bay Regional Park public safety division and appears to be largely intact.

CONTINUATION SHEET

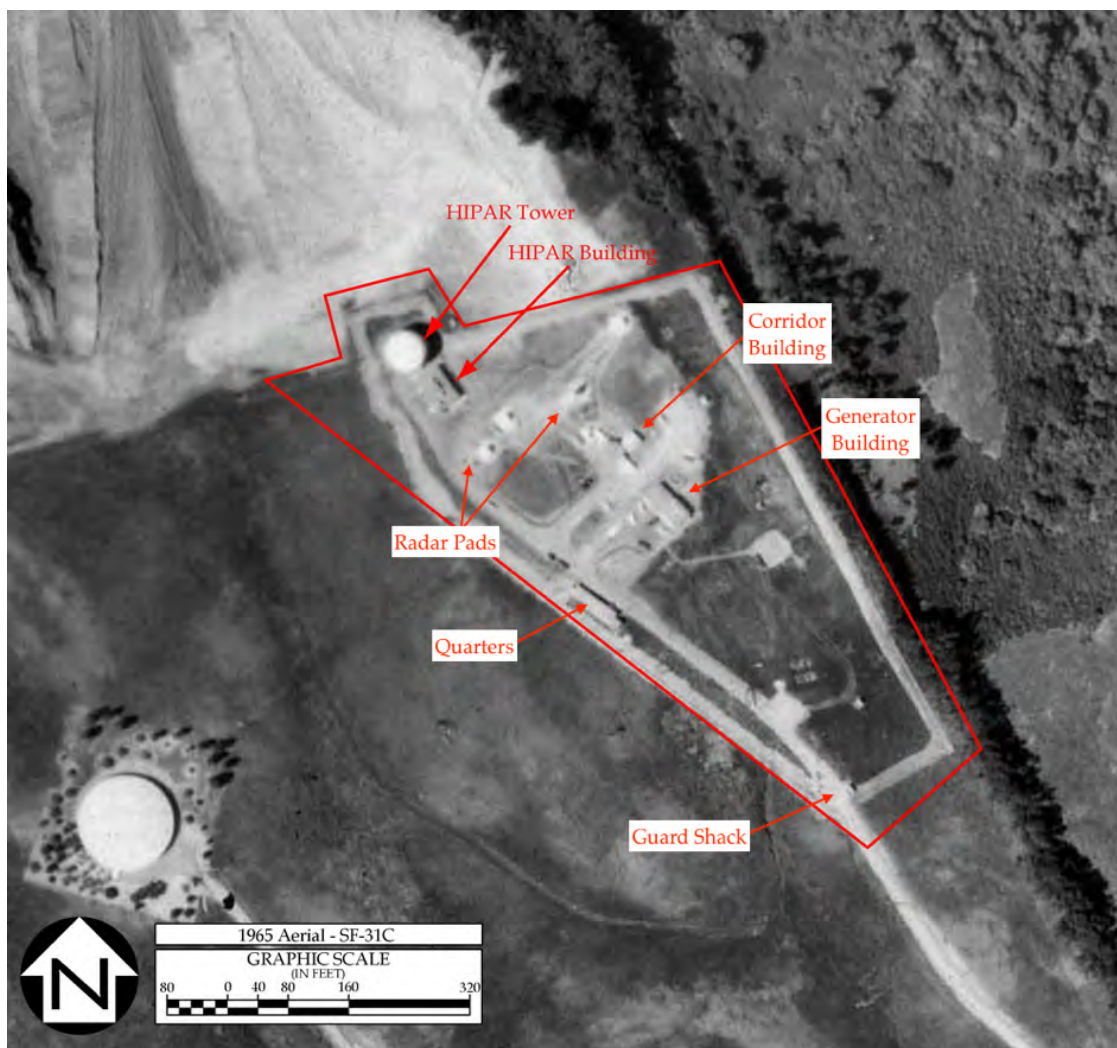
Property Name: Nike Missile Base SF-31C

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*B10. Significance (Continued):

SF-31C, located on Fairmont Ridge above Lake Chabot, was about 1.1 miles west of SF-31L and SF-31A (Sebby 2016). Its location gave it "360-degree line of site radar coverage by the Site's tracking and search radar system" (Sebby 2016). The Control area was located on land leased from Alameda County.

The area layout at SF-31C was the "unconsolidated" type and was laid out on a roughly north-south axis, following the line of Fairmont Ridge.¹ From south to north, the facilities included the Guard Shack, Quarters, Generator Building, Electronic Shop Building, LOPAR and target tracking arrays, HIPAR building, and HIPAR radome.



Aerial Photo of SF-31C circa 1965.

¹ Fairmont Ridge runs approximately 20 degrees west of north.

CONTINUATION SHEET

Property Name: Nike Missile Base SF-31C

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*B10. Significance (Continued):

In the late 1950s and early 1960s, SF-31 underwent modifications to accommodate the new Nike Hercules missiles. The magazines in the Launcher area were modified to hold 12 Nike Hercules missiles and new facilities were constructed at SF-31L including missile and warhead assembly, crew readiness, and security buildings (Sebby 2016). The Army installed a High Power Acquisition Radar (HIPAR) system in the Control area to guide the Hercules missiles, acquiring an additional 17.5 acres from the San Leandro Rock Company for this expansion (Sebby 2016). Andel, Inc. of Castro Valley won a contract to construct new concrete radar pads in 1961, presumably as part of the Hercules retrofit (Oakland Tribune 1961).

Life on Nike bases was sometimes described as lonely, since the bases, although often defending urban areas, were in sparsely settled areas like that around Lake Chabot. Because each part of the base had to be staffed 24 hours a day, the soldiers manning SF-31C slept and ate at the Control area in the quarters building. Most of the soldiers assigned to Nike bases were teenage draftees, with a small number of older, trained technicians. The small percentage of married men stationed at the bases usually had local homes and spent 3-4 nights a week there (Craib 1955).

The bases had some entertainment facilities such as a day room with television sets, ping-pong and pool tables and athletic courts (Craib 1955, Oakland Tribune 1956a). The Red Cross had program for volunteers to visit the East Bay Nike bases regularly to serve refreshments and help the soldiers feel like part of the community (Oakland Tribune 1956b). Soldiers from SF-31 at Lake Chabot participated in Castro Valley parades (Oakland Tribune 1959) and helped fight local fires. When EBMUD asked how they could thank them for their help, the one of the men replied that they just wanted to be allowed to fish in the lake (Oakland Tribune 1958). The project area garnered some attention in local newspapers in 1955, when soldiers at the base adopted a 10-year-old Castro Valley boy, Richard Briggs, who began coming to the base every day during construction. Soon he was guarding the base with a BB gun and doing KP duty, with permission from the base commander, Capt. John Ringer (Strobel 1955).

At some point in the late 1960s, EBMUD sold part of the land the Nike base SF-31 was located on (most likely SF-31L and SF-31A, on the other side of Lake Chabot from SF-31C) to the South County Community College District, who continued to lease the land to the US Army (Oakland Tribune 1970, 1975). These parts of the base are currently used as East Bay Regional Park Police headquarters. In 1974, the Army deactivated SF-31 and returned control of the leased site to the property owners (Sebby 2016). The project area was returned to Alameda County's control at this time. A closing ceremony was held at the project site and attended by Lt. Gen. Raymond L. Shoemaker, commander of the US Army Air Defense, and other dignitaries (Oakland Tribune 1974). Since then, the former fire control facilities within the project area have been periodically used by the sheriff, by HAM radio operators, or stood vacant.

CONTINUATION SHEET

Property Name: Nike Missile Base SF-31C

Page 13 of 16

***B10. Significance (Continued):**

Integrity

The Lake Chabot Nike Missile Base retains a high level of historic integrity, especially compared to the seven Bay Area Nike Missile Bases where at least some of the original features are still extant. The historic integrity of the base's Control area (SF-31C) is especially good compared to other surviving Nike Missile Bases. The original setting and location of the buildings, road and site (terracing, radar platforms, vegetation, and fence lines) have not been altered in area SF-31C. The overall integrity of design and materials of four of the five simple concrete block buildings, and of the metal addition to the Corridor Building, is excellent. However, the Quarters Building lacks integrity of materials and design due to its collapsed roof and extensive interior damage, though the concrete block walls appear to be structurally sound.

The buildings at the Administrative Area (SF-31A) and Launch Area (SF-31L) were not visited for this report. However, review of recent aerial photographs shows that both areas have very good integrity, in that all of the buildings present in 1965 are still standing. Few Bay Area Nike bases retain any launch area features, and only three others retain all base three components in a good state of preservation.

The overall integrity of feeling and association of the Lake Chabot Nike Missile Base is high. The Control Area, in particular, is able to evoke the feeling of visiting the base during its period of significance. In conclusion, the Lake Chabot Nike Missile Base retains integrity of location, design, setting, materials, feeling and association. (The integrity of "workmanship" is not relevant to this property).

Significance Evaluation

Four of the five buildings at SF-31C are contributing resources to a California Register-eligible Lake Chabot Nike Missile Base Historic District (which includes buildings and features at areas SF-31L and SF-31A) because they are significant under California Register Criteria 1 as defined in CEQA §15064.5. The contributing buildings are the Guard Shack, Generator Building, Corridor Building, and HIPAR Building. The Quarters Building and the Radar Storage Shed addition to the Corridor Building are not contributing resources to the proposed district.

As one of the three or four best-preserved of the original 12 Nike installations in the Bay Area, the Lake Chabot Nike Missile Base retains most of the important features of the original Nike Missile Base, a historically significant technological advance in the history of United States military defenses. The period of significance is 1955 to 1974. However, since the buildings were designed to function as an ensemble, no single building has the potential to evoke the significance of a Nike base as a whole. Therefore, none of the buildings at SF-31C appear to be eligible individually for the California Register.

Historic research did not identify any significant figures in history associated with the Lake Chabot Nike Missile Base, thus the buildings do not appear to be significant under California Register Criterion 2.

CONTINUATION SHEET

Property Name: Nike Missile Base SF-31C

Page 14 of 16

***B10. Significance (Continued):**

The concrete block buildings in area SF-31C are typical of their period and do not represent an innovative design or high artistic values. They were constructed to a generic Nike base design developed by the US Army Corps of Engineers and implemented throughout the United States and several foreign countries. They are thus not sufficiently exceptional or distinguished examples of military architecture in the East Bay to be eligible under California Register Criterion 3. The same is true of the buildings at the other areas of the Lake Chabot Nike base.

The area SF-31C buildings were constructed using standard techniques for concrete block construction common during the mid 20th century. The buildings would not yield information important to history or prehistory thus the buildings are not eligible under Criterion 4.

CONTINUATION SHEET

Property Name: Nike Missile Base SF-31C

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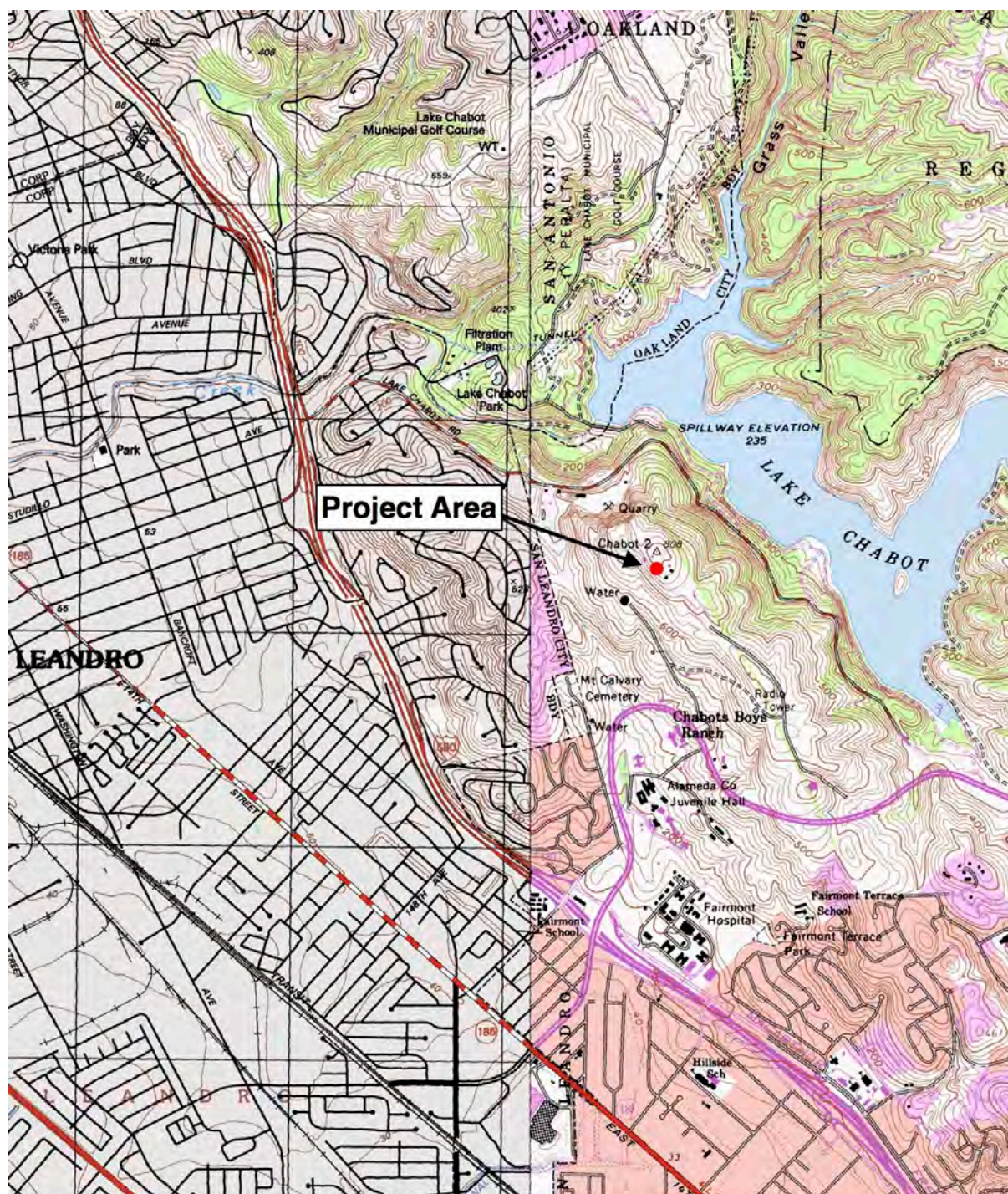
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Mercator Projection
WGS84
USNG Zone 10SEG

0.5 1.0 1.5 2.0 2.5 km
0.5 1.0 1.5 mi

Scale 1:25000 1 inch = 2083 feet
Hayward 7.5' Quadrangle (1993)



Appendix C

Limited Asbestos and Lead Survey Report

Limited Asbestos and Lead Survey

Former Nike Missile Site
Multiple Structures
2892 Fairmont Drive
San Leandro, California

May 16, 2018

Terracon Project No. R1187351

Prepared for:

County of Alameda
Oakland, California

Prepared by:

Terracon Consultants, Inc.
Emeryville, CA



Prepared by: William Frieszell
Senior Industrial Hygienist
CAC #12-4853, CDPH Lead I/A #23815

Reviewed by: Steff Steiner
Office Manager

CAC #92-0850, CDPH Lead I/A #477

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Geotechnical ■ Environmental ■ Construction Materials ■ Facilities

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APPENDICES

- 1. Laboratory Results and Chain of Custody – Asbestos**
- 2. Laboratory Results and Chain of Custody – Lead**
- 3. Sample Location Figures**
- 4. Inspector Certifications**

Limited Asbestos and Lead Survey Report

*Former Nike Missile Site
Multiple Structures
2892 Fairmont Drive
San Leandro, California*

1. Executive Summary

The following is a summary report for the limited asbestos and lead survey conducted by Terracon Consultants, Inc. (Terracon) of four (4) structures at the former Nike Missile Site located at 2892 Fairmont Drive in San Leandro, California. All survey activities were conducted by Remington Caldwell, Certified Asbestos Consultant (CAC) and California Department of Public Health (CDPH) Lead Inspector/Assessor with Terracon. Survey activities were conducted on April 19, 2018. It should be noted that this survey was conducted in order to supplement a previous sampling event, which occurred on October 12, 2017. Data from each of the referenced events have been compiled within this report.

The referenced site consists of multiple buildings, four of which were included and sampled during the course of Terracon's survey efforts. It should be noted that the purpose of this survey was to identify materials within the affected areas that may be impacted by pending planned renovation and demolition projects scheduled to occur at the property. The areas included in this survey are as follows:

- Building B
- Building C
- Building D
- Guard Shack

A total of forty-three (43) suspect asbestos containing materials (ACMs) were identified and sampled throughout the former Nike Missile Site. Of the materials sampled, fourteen (14) were confirmed be positive for asbestos content in concentrations exceeding the laboratory limit of detection. Confirmed and assumed asbestos containing materials were noted to be present in each of the buildings included within the survey.

Sixteen (16) painted surfaces and four (4) bulk materials were sampled for potential lead content during the survey. All of these items were found to contain lead in concentrations in exceedance of the laboratory detection limit. Of the confirmed lead containing paints, nine (9) were reported at concentrations exceeding the current regulatory threshold of five thousand parts per million, which signifies the presence of lead based paints.

Although Terracon completed a visual inspection for the presence of sealants suspected to contain polychlorinated biphenyls (PCBs), no such materials could be identified at building exterior areas. These materials are not addressed any further with regards to the scope of this report.

2. Scope of Work

The scope of the survey was as follows:

- Inspect the four (4) listed buildings of the subject site for the presence of suspect ACMs and lead-containing paint.
- Collect samples of suspect ACMs following a National Emissions Standards for Hazardous Air Pollutants (NESHAPS) protocol for sample collection for a demolition survey. The extent of destructive testing was limited due to building occupancy during the survey.
- Asbestos bulk samples will be analyzed using polarized light microscopy (PLM) in accordance with the EPA's July 1993 method for the determination of asbestos in bulk building materials - EPA 600/R-93/116.
- Collect bulk paint chip samples of primary painted surfaces and other materials suspected to be lead containing. Bulk samples will be analyzed at an accredited laboratory by Flame Atomic Absorption (AA) for Total Lead reported in parts per million (ppm).
- Submit a written report including analytical results, regulatory requirements and conclusions.

3. Methods and Sampling Strategy

Visual Inspection of Building Materials

Accessible building materials on the interior and exterior of each of the four (4) listed structures were visually inspected using the methods presented in the federal Asbestos Hazard Emergency Response Act (AHERA) regulations (40 CFR, Part 763) as a guideline. AHERA was originally only applicable to schools, however State and Federal Occupational Safety and Health Administration (OSHA) and Asbestos School Hazard Abatement Reauthorization Act (ASHARA) have adopted the AHERA sampling methodology for all buildings subject to demolition or renovation.

Bulk Sampling of Asbestos

Bulk samples were collected of accessible homogeneous suspect ACMs that were identified within affected areas of the four (4) referenced buildings associated with the site.

A homogeneous material is defined as a surfacing material, thermal system insulation, or miscellaneous material that is uniform in color, size, texture and age of construction. Examples of homogeneous materials include:

- Pipe-insulation produced by the same manufacturer and installed during the same time period;
- Resilient flooring of identical color and pattern;
- Troweled on surfacing materials located in contiguous areas.

The survey area was visually inspected for the presence of suspect materials. As materials were identified, bulk samples were obtained with the aid of a coring device or other hand tool and placed into individual sampling bags. Each sample was given a discreet identification number and recorded on field notes as well as chain-of-custody forms. Refer to accompanying tables and appendices for details on material sample locations and results.

Bulk Sample Analysis - Asbestos

Bulk samples were analyzed by AsebestosTEM Laboratory in Berkeley, California and EMLab P&K in Phoenix, Arizona. These labs are accredited under the National Institute of Standards and Technology's National Voluntary Laboratory Accreditation Program (NVLAP).

When None Detected (ND) appears in this report, it should be interpreted as meaning no asbestos was observed in the sample material above the reliable limit of detection for the PLM method.

Note: Under EPA assessment criteria, if a single sample of a homogeneous material tests positive for asbestos, all areas of that homogeneous material are considered to be asbestos containing.

Bulk Sampling of Lead Paint and Suspect Bulk Materials

Paint chip and bulk samples were collected using a hand scraper or chisel and were placed into individual plastic sampling containers. Each sample was provided a discreet sample number, which was recorded on a chain-of-custody form. The samples were transported under chain-of-custody procedures to AsbestosTEM Laboratory in Berkeley, California or QuanTEM Laboratories in Oklahoma City, Oklahoma. Please refer to Table III for details on sample locations and sample results. Paint chip samples were analyzed for lead content using Flame Atomic Absorption spectroscopy in accordance to EPA Method SW846-7000B. Bulk ceramic tile glazing samples were analyzed for Total Threshold Limit Concentration (TTLC) for lead by EPA Method SW-846.

4. Asbestos Results

A total of forty-three (43) suspect asbestos containing materials (ACMs) were identified and sampled throughout the interior and exterior areas of each of the four (4) affected structures during the survey.

- Ten (10) materials were identified in association with Building B
- Ten (10) materials were identified in association with Building C
- Sixteen (16) materials were identified in association with Building D
- Seven (7) materials were identified in association with the Guard Shack

Upon laboratory analysis using polarized light microscopy techniques, a total of fourteen (14) of the materials sampled were reported to contain asbestos in concentrations exceeding the laboratory method limit of detection. Confirmed ACMs were present within each of the four (4) structures surveyed.

- Two (2) confirmed ACMs were reported in association with Building B
- Three (3) confirmed ACMs were reported in association with Building C
- Eight (8) confirmed ACMs were reported in association with Building D
- One (1) confirmed ACM was reported in association with the Guard Shack

The confirmed asbestos containing materials are listed in Table I below.

TABLE I
ASBESTOS-CONTAINING MATERIALS

Material Description	General Material Locations	Waste Category	Asbestos Type
Building B			
Floor Tile System - 9" Green/Black Interspersed Tiles with Black Mastic	Material is Present throughout Building B	Cat. II	Green Tile: 1-5% Chrysotile Black Tile: 1-5% Chrysotile Black Mastic: ND
Roof Penetration Mastic - Silver	Material is Sporadically Present throughout the Roofing Level of Building B	Cat. I	2% Chrysotile
Building C			
Floor Tile System - 9" Green/Black Interspersed Tiles with Black Mastic	Material is Present throughout Building C	Cat. II	Green Tile: 5% Chrysotile Black Tile: 5% Chrysotile Black Mastic: 5% Chrysotile
Roof Patching Mastic - Grey/Silver	Material is Sporadically Present throughout the Roofing Level of Building C	Cat. I	10% Chrysotile
Roof Flashing System - Black	Material is Sporadically Present throughout the Roofing Level of Building C	Cat. I	15% Chrysotile
Building D			
Drywall and Joint Compound - Smooth	Material is Present throughout Wall Systems in Building D	RACM	Drywall: ND Joint Compound: 5% Chrysotile
Drywall and Joint Compound - Textured	Material is Present throughout Wall Systems in Building D	RACM	Drywall: ND Joint Compound: 5% Chrysotile
Drywall Texturing Material	Material is Present throughout Wall Systems in Building D	RACM	5% Chrysotile
Floor Tile System - 9" Black Tile with Black Mastic over White Tile	Material is Present throughout Building D	Cat. II	Green Tile: 5% Chrysotile White Tile: 5% Chrysotile Black Mastic: 5% Chrysotile
Floor Tile System - 9" Red Tile with Black Mastic	Material is Limited to Western Room of Building D	Cat. II	Red Tile: 5% Chrysotile Black Mastic: 5% Chrysotile
Wooden Wall Paneling Mastic - Black	Material is Limited to Wall Systems in the Northern Room of Building D	Cat. II	5% Chrysotile
Transite Paneling Material - Grey	Material is Present throughout Exterior and Restroom Areas of Building D	Cat. II	40% Chrysotile
Roof Patching Mastic - Grey/Silver	Material is Sporadically Present throughout the Roofing Level of Building D	Cat. I	10% Chrysotile

Material Description	General Material Locations	Waste Category	Asbestos Type
Guard Shack			
Roof Patching Mastic - Black/Grey	Material is Sporadically Present throughout the Roofing Level of the Guard Shack	Cat. I	10% Chrysotile

NA = Not Applicable, lf = linear feet, sf = square feet, RACM = Regulated asbestos containing material (friable), Cat. I = Non-friable (note ACM must be reclassified as a RACM if rendered friable during removal), Cat. II = Category II Non-friable (note ACM must be reclassified as a RACM if rendered friable during removal)

Twenty-nine (29) suspect materials were sampled throughout the former Nike Missile Site, but were not reported to contain asbestos in detectable quantities during the survey. The non-asbestos containing materials and sampling locations are listed in Table II below.

TABLE II
NON-ASBESTOS CONTAINING MATERIALS

Material Description	Material Location
Building B	
Window Caulking Material - Beige	Throughout Exterior Window Frame Assemblies at Building B
Fiberboard Ceiling System - Brown	Throughout Ceiling Systems of Building B
Fiberglass Batting Insulation/Moisture Barrier	Throughout Ceiling Systems of Building B
CMU Block Mortar - Grey	Throughout Wall Systems of Building B
Wood Paneling Adhesive - Brown	Material is Present at Limited Wall Systems of Building B
Moisture Barrier Paper - Black	Material observed at Wooden Barrier Wall between Building B and Addition
Concrete Slab Material - Grey	Material is Present throughout Foundation Slab of Building B
Main Roofing Field System - Tar and Gravel	Material is Present throughout Roofing System of Building B
Building C	

Material Description	Material Location
Exterior Mortar Material - Grey	Material is Present throughout Exterior Wall Systems of Building C
Ceiling Tile System - 1' White Tile with Brown Adhesive	Material is Present throughout Ceiling Systems within the Northern Office Space of Building C
Window Putty Material - Grey/Beige	Material is Present throughout Exterior Window Assemblies of Building C
Window Caulking Material - Beige	Material is Present throughout Exterior Window Assemblies of Building C
Concrete Slab Material - Grey	Material is Present throughout Foundation Slab of Building C
Main Roofing Field System - Tar and Gravel	Material is Present throughout Roofing System of Building C
Roofing Patch Material - Black Asphaltic Mastic on Fiberboard	Material is Sporadically Present throughout Lower Roofing System of Building C
Building D	
Window Caulking Material - Beige	Material is Present throughout Window Assemblies of Building D
Exterior CMU Block Mortar - Grey	Material is Present throughout Exterior Wall Systems of Building D
Concrete Slab Material - Grey	Material is Present throughout Foundation Slab of Building D
Cove Base Adhesive - Brown on 3" Red Cove	Material is Present throughout Limited Wall Systems in Building D
Wood Wall Paneling Adhesive - Tan	Material is Present throughout Limited Wall Systems in Building D
Roofing Field System - Tar and Gravel	Material is Present throughout Roofing System of Building D
Roofing Field System - Green Rolled Composite Shingling	Material is Present throughout Limited Roofing System Sections of Building D
Roofing Field System - Black Rolled Composite Shingling	Material is Present throughout Limited Roofing System Sections of Building D
Guard Shack Area	

Material Description	Material Location
Ceiling Tile - 1' Spline in System, Grey	Material is Present throughout Guard Shack Area Ceiling Systems
Unfinished Drywall Wall Systems	Material is Present throughout Guard Shack Area Wall Systems
Window Caulking Material - Grey	Material is Present throughout Guard Shack Area Window Assemblies
Roofing Field System - Tar and Gravel	Materials is Present throughout Guard Shack Area Roofing System
Exterior CMU Block Mortar - Grey	Material is Present throughout Exterior Wall Systems of the Guard Shack
Concrete Slab Material - Grey	Material is Present throughout Foundation Slab of the Guard Shack

It should be noted that, it is possible that additional materials, including but not limited to, abandoned mechanical systems, subsurface vapor barrier systems, window framing rough in mastic, and various others may be present behind or beneath finishes that could not be selectively demolished during the survey. Only the materials specifically mentioned in this report have been identified and sampled by Terracon. Any other material discovered during the course of construction activities should be assumed to contain asbestos and treated accordingly until proven otherwise through appropriate sampling and analytical techniques. Allowances for the discovery of these materials should be considered during project budgeting.

5. Lead Results

Sixteen (16) painted surfaces and four (4) bulk materials were sampled for potential lead content during the survey. All of these items were found to contain lead in concentrations in exceedance of the laboratory detection limit. Of the confirmed lead containing paints, nine (9) were reported at concentrations exceeding the current regulatory threshold of five thousand parts per million, which signifies the presence of lead based paints. The laboratory results for lead testing are summarized in Table III below.

**TABLE III
LEAD SAMPLE RESULTS**

Sample Number	Material Description and Location	Results mg/kg (ppm)
Building B		
B-Pb-1	Grey Paint on CMU Block Exterior Wall System at Building B Southern Side	12,000
B-Pb-2	Green Paint on Metal Exterior Wall System at Building B Addition Northern Wall	4,500
B-Pb-3	Window Caulking Material at Building B Exterior Western Side	140
B-Pb-4	Tan Paint on Metal Pole at Building B	23,000
B-Pb-5	Green Paint on CMU Block Interior Wall System at Building B	6,100
Building C		
Nike-2-Pb-01	Light Green Paint on Metal HVAC Curbing at Building C Roof Level	74,100
C-Pb-1	Green Paint on CMU Block Exterior Wall System at Building C Western Side	4,100
C-Pb-2	Green Paint on CMU Block Interior Wall System at Building C Northern Office Area	1,100
C-Pb-3	Red Paint on Concrete Flooring at Building C Large Room Area	1,600
C-Pb-4	Window Glazing Material on Metal Window Frame at Building C Northern Side	4,100
C-Pb-5	Yellow Paint on Metal Flooring Plates at Building C Trench Coverings	21,000
Building D		
Nike-1-Pb-01	Light Green Paint on Wooden Eave at Building D Exterior	5,880
D-Pb-1	Green Paint on CMU Block Exterior Wall System at Building D Eastern Side	8,200

Sample Number	Material Description and Location	Results mg/kg (ppm)
D-Pb-2	Light Red Paint on CMU Block Interior Wall System at Building D Southern Room Area	7,100
D-Pb-3	Green Paint on CMU Block Interior Wall System at Building D Northern Room Area	1,600
D-Pb-4	Peach Paint on Drywall Wall System at Building D Western Room Area	8,000
D-Pb-5	Window Caulking Material at Building D Southern Room Area	4,700
Guard Shack Area		
X-Pb-1	Green Paint on CMU Block Exterior Wall System at Guard Shack Area Northern Side	4,200
X-Pb-2	Light Red Paint on Drywall Wall System at Guard Shack Area Interior	3,800
X-Pb-3	Window Caulking Material on Wooden Window Frame Assembly at Guard Shack Area Northern Side	9,700

mg/kg= Milligram per kilogram, ppm = parts per million, ND< = Not Detected

6. Conclusions and Recommendations

Based upon the survey results, Terracon concludes the following:

- Fourteen (14) of the forty-three (43) materials sampled during the course of the survey were reported to contain asbestos in concentrations exceeding the laboratory method limit of detection.
- Asbestos was reported within each of the four (4) structures included within the scope of the survey. Asbestos was identified in multiple material types, including resilient flooring systems, drywall wall systems and texturing materials, wall paneling adhesives, transite paneling and in roofing mastics.
- If additional suspect materials that have not been characterized as ACM or non-ACM in this report are discovered during construction related processes, these materials should be assumed to contain asbestos and be treated accordingly until proven otherwise by appropriate sampling and laboratory analysis.
- Lead was detected above the laboratory detection limit in all of the fourteen (14) of the samples collected, including various paints and window caulking materials. Nine (9) of the painted surfaces were found to contain lead in concentrations exceeding 5,000 parts per million the threshold for lead based paint.

7. Regulatory Requirements

Asbestos

Impacting materials containing greater than 0.1% asbestos either through repair, maintenance, or demolition activities triggers numerous regulations enforced by such agencies as OSHA (worker protection) and EPA (environmental exposure, transportation and disposal).

Listed below are the regulations that apply if the materials are removed:

- Any individual who contracts to provide health and safety services relating to ACMs must be certified by Cal-OSHA as either a Certified Asbestos Consultant or a Site Surveillance Technician. The activities they are certified to provide include: conducting asbestos surveys; writing work plans or specifications for abatement; monitoring the work of abatement contractors; collecting air samples; and determining if the work area is safe for re-occupancy by non-asbestos workers. Regulation: Cal-OSHA 8 CCR 1529 (q)(1).
- If more than 100 square feet of materials that contain greater than 0.1% asbestos will be abated, the materials must be abated by a Cal-OSHA registered asbestos abatement contractor. Regulation: Cal-OSHA 8 CCR 1529 (R).
- ACMs that are classified by OSHA as surfacing materials are present. Removal of surfacing materials is considered a Class I activity according to Cal-OSHA regulations. Work practices and engineering controls for Class I work are specified in Cal-OSHA 8 CCR 1529 (g) (4-6).
- ACMs that are classified by OSHA as other/miscellaneous materials are present. Removal of these materials is considered a Class II activity according to Cal-OSHA regulations. Work practices and engineering controls for Class II work are specified in Cal-OSHA 8 CCR 1529 (g) (7-8).
- Removal of friable ACMs greater than 100 square feet or 100 linear feet requires notification of the Bay Area Air Quality Management District ten (10) working days in advance of intended removal.
- Friable ACMs greater than 1% asbestos must be manifested, transported, and disposed of as hazardous waste in accordance with the Department of Toxic Substances Control (DTSC), a division of Cal-EPA. DTSC regulates disposal of asbestos waste. DTSC issues U.S. EPA hazardous waste generator identification numbers.

Lead

Impacting lead materials or lead-containing paint either through repair, maintenance, renovation or demolition activities triggers numerous regulations enforced by such agencies as OSHA (worker protection), EPA (environmental exposure, transportation and disposal), and Department of Public Health (DPH).

Listed below are the lead paint regulations that apply if the paint or window sealants are removed:

- There are presently no federal, state or local regulations limiting the concentration of lead in public sector buildings, however several regulations established for the private sector as well as for government subsidized housing are used industry wide as guidelines for assessing exposure to lead. The Consumer Product Safety Commission (CPSC) has set a maximum limit of 90 ppm in paint used for residential purposes. The Department of Housing and Urban Development (HUD) requires abatement of lead hazards involving paint in concentrations exceeding 5,000 ppm.
- Proper waste stream categorization is required for the disposal of all lead containing materials and painted construction debris with total lead content that exceeds 50 ppm. The debris should be classified as hazardous waste if lead waste concentrations exceed either the total lead concentration or soluble lead concentration regulatory limits. Total lead concentration is determined by Total Threshold Limit Concentration (TTLC). Soluble or leachable lead is determined by the Soluble Threshold Limit Concentration (STLC, California required test) and/or Toxicity Characteristic Leaching Procedure (TCLP) (Federal EPA required test). Regulatory limits characterize a lead waste as a hazardous waste if lead concentrations exceed 1,000 ppm by TTLC or 5 milligram per liter by STLC or TCLP.
- Federal OSHA as well as California OSHA regulates all worker exposure during construction activities that impact lead-containing paint. California OSHA enforces the Lead in Construction Standard in Title 8 CCR 1532.1. The scope covers construction work where employees may be exposed to lead during such activities as demolition, removal, surface preparation for re-painting, renovation, clean-up and routine maintenance. The OSHA specified method of compliance includes respiratory protection, protective clothing and equipment, housekeeping, hygiene facilities, medical surveillance, and training, among other requirements.

8. Limitations

Terracon Consultants, Inc. warrants that the findings contained herein have been prepared in general accordance with accepted professional practices as applied by similar professionals in the community at the time of its preparation. Changes in the state of the art or in applicable regulations cannot be anticipated and have not been addressed in this report.

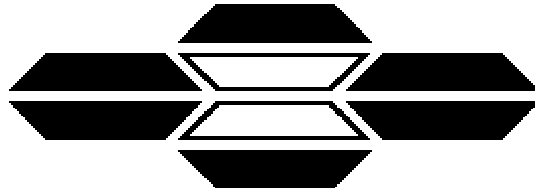
Every effort was made to access building materials throughout each affected building, however only limited destructive testing was completed during the survey due to client request. Suspect materials may be present in wall cavities, above ceilings and beneath flooring that could not be accessed at the time of the survey. In the event that additional materials not listed in this report are uncovered during demolition, these materials should be assumed hazardous and may contain asbestos until suitably proven otherwise.

It is possible that additional materials, including but not limited to, abandoned mechanical systems, subsurface vapor barrier systems, window framing rough in mastic, and various others may be present behind or beneath finishes that could not be selectively demolished during the survey. Allowances for the discovery of these materials should be considered during project budgeting.

The field and laboratory results reported herein are considered sufficient in detail and scope to determine the presence of ACMs and lead containing materials identified therein. Also, note that this is a survey report and not an abatement specification. This document is not appropriate for competitive bidding or for use as an asbestos or lead abatement specification.



Appendix 1:
Laboratory Results and Chains of Custody - Asbestos



ASBESTOS TEM LABORATORIES, INC.

EPA Interim Method Polarized Light Microscopy Analytical Report

Laboratory Job # 357343

600 Bancroft Way, Ste. A
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With Branch Offices Located At:

1350 FREEPORT BLVD. UNIT 104, SPARKS, NV 89431
Ph. (775) 359-3377



ASBESTOS TEM LABORATORIES, INC

CA DPH ELAP
Lab No. 1866



NVLAP Lab Code: 101891-0
Berkeley, CA

Apr-26-18

W. Frieszell
Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

RE: LABORATORY JOB # 357343

Polarized light microscopy analytical results for 24 bulk sample(s) with 7 sample split(s)
Job Site: Nike Missile Site, Bldg B(3), 2892 Fairmont Dr, San Leandro
Job No.: R1187351

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with EPA Method 600/R-93/116 or 600/M4-82-020 for the determination of asbestos in bulk building materials by polarized light microscopy (PLM). Please note that while PLM analysis is commonly performed on non-friable and fine grained materials such as floor tiles and dust, the EPA method recognizes that PLM is subject to limitations. In these situations, accurate results may only be obtainable through the use of more sophisticated and accurate techniques such as transmission electron microscopy (TEM) or X-ray diffraction (XRD).

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Each sample is opened in a class 100 HEPA negative air hood. A representative sampling of the material is selected and placed onto a glass microscope slide containing a drop of refractive index oil. The glass slide is placed under a polarizing light microscope where standard mineralogical techniques are used to analyze and quantify the various materials present, including asbestos. The data is then compiled into a standard report format and reviewed by the authorized signatory before being released to the client.

Sincerely Yours,

Lab Manager
ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, with the approval of the laboratory. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. ---

Note: Test samples will be stored for three months after data of receipt, after which they will be properly disposed unless client makes other arrangements with the laboratory.

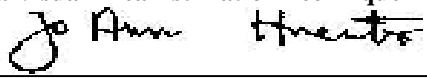
POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 1 of

Contact: W. Frieszell		Samples Indicated: 24	Report No. 357343	
Address: Terracon Consultants, Inc.		Reg. Samples Analyzed: 24	Date Submitted: Apr-19-18	
1466 66th Street		Split Layers Analyzed: 7	Date Reported: Apr-26-18	
Emeryville, CA 94608		Job Site / No. Nike Missile Site, Bldg B(3), 2892 Fairmont Dr, San Leandro R1187351		
SAMPLE ID		OTHER DATA		DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed		
ASBESTOS TYPE		FIELD LAB		
B-1A	1-5%	Chrysotile	1)None Detected	9" Black vft + black mastic and 9" green uft black mastic. Bldg B(3) - Main Bldg
			2)95-99% Calc, Bndr	
Lab ID # 1434-03374-001A			3)Apr-19-18 4) Apr-26-18	Floor Tile-Green
B-1A		None Detected	1)None Detected	9" Black vft + black mastic and 9" green uft black mastic. Bldg B(3) - Main Bldg
			2)99-100% Tar	
Lab ID # 1434-03374-001B			3) 4) Apr-26-18	Mastic-Black
B-1B	1-5%	Chrysotile	1)None Detected	9" Black vft + black mastic and 9" green uft black mastic. Bldg B(3) - Main Bldg
			2)95-99% Calc, Bndr	
Lab ID # 1434-03374-002A			3) Apr-19-18 4) Apr-26-18	Floor Tile-Black
B-1B		None Detected	1)None Detected	
			2)99-100% Tar	
Lab ID # 1434-03374-002B			3) 4) Apr-26-18	Mastic-Black
B-1B	1-5%	Chrysotile	1)None Detected	
			2)95-99% Calc, Bndr	
Lab ID # 1434-03374-002C			3) 4)Apr-26-18	Floor Tile-Green
B-1B		None Detected	1)None Detected	
			2)99-100% Tar	
Lab ID # 1434-03374-002D			3) 4) Apr-26-18	Mastic-Black
B-1C	1-5%	Chrysotile	1)None Detected	9" Black vft + black mastic and 9" green uft black mastic. Bldg B(3) - Addition
			2)95-99% Calc, Bndr	
Lab ID # 1434-03374-003A			3) Apr-19-18 4)Apr-26-18	Floor Tile-Black
B-1C		None Detected	1)None Detected	
			2)99-100% Tar	
Lab ID # 1434-03374-003B			3) 4)Apr-26-18	Mastic-Black
B-1C	1-5%	Chrysotile	1)None Detected	
			2)95-99% Calc, Bndr	
Lab ID # 1434-03374-003C			3) 4)Apr-26-18	Floor Tile-Green
B-1C		None Detected	1)None Detected	
			2)99-100% Tar	
Lab ID # 1434-03374-003D			3) 4)Apr-26-18	Mastic-Black

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst 

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POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 2 of

Contact: W. Frieszell Address: Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608		Samples Indicated: 24 Reg. Samples Analyzed: 24 Split Layers Analyzed: 7 Job Site / No. Nike Missile Site, Bldg B(3), 2892 Fairmont Dr, San Leandro R1187351		Report No. 357343 Date Submitted: Apr-19-18 Date Reported: Apr-26-18	
--	--	--	--	---	--

SAMPLE ID	%	ASBESTOS TYPE	OTHER DATA	DESCRIPTION
			1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD <hr/> LAB
B-2A Lab ID # 1434-03374-004		None Detected	1) None Detected	Window caulk. Bldg B(3) - 1 Door
			2) 99-100% Calc, Opq	
			3) Apr-19-18	4) Apr-26-18
B-2B Lab ID # 1434-03374-005		None Detected	1) None Detected	Window caulk. Bldg B(3) - 1 Door
			2) 99-100% Calc, Opq	
			3) Apr-19-18	4) Apr-26-18
B-2C Lab ID # 1434-03374-006		None Detected	1) None Detected	Window caulk. Bldg B(3) - 1 Door
			2) 99-100% Calc, Opq	
			3) Apr-19-18	4) Apr-26-18
B-3A Lab ID # 1434-03374-007		None Detected	1) 99-100% Cellulose	Brown fiber board. Bldg B(3) - Additional ceiling.
			2) None Detected	
			3) Apr-19-18	4) Apr-26-18
B-3B Lab ID # 1434-03374-008		None Detected	1) 99-100% Cellulose	Brown fiber board. Bldg B(3) - Additional ceiling.
			2) None Detected	
			3) Apr-19-18	4) Apr-26-18
B-3C Lab ID # 1434-03374-009		None Detected	1) 99-100% Cellulose	Brown fiber board. Bldg B(3) - Additional ceiling.
			2) None Detected	
			3) Apr-19-18	4) Apr-26-18
B-4A Lab ID # 1434-03374-010		None Detected	1) 99-100% Cellulose	Fiberglass Batt - vapor barrier. Bldg B(3) - Additional - Over fiberboard ceiling (Falling down)
			2) None Detected	
			3) Apr-19-18	4) Apr-26-18
B-4B Lab ID # 1434-03374-011		None Detected	1) 99-100% Cellulose	Fiberglass Batt - vapor barrier. Bldg B(3) - Additional - Over fiberboard ceiling (Falling down)
			2) None Detected	
			3) Apr-19-18	4) Apr-26-18
B-4C Lab ID # 1434-03374-012		None Detected	1) 99-100% Cellulose	Fiberglass Batt - vapor barrier. Bldg B(3) - Additional - Over fiberboard ceiling (Falling down)
			2) None Detected	
			3) Apr-19-18	4) Apr-26-18
B-5A Lab ID # 1434-03374-013		None Detected	1) None Detected	CMU mortar - Grey. Bldg B(3) - Exterior - S.E corner
			2) 99-100% Opq, Qtz	
			3) Apr-19-18	4) Apr-26-18

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst

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POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: **3** of

Contact: W. Frieszell		Samples Indicated: 24	Report No. 357343
Address: Terracon Consultants, Inc.		Reg. Samples Analyzed: 24	Date Submitted: Apr-19-18
1466 66th Street		Split Layers Analyzed: 7	Date Reported: Apr-26-18
Emeryville, CA 94608		Job Site / No. Nike Missile Site, Bldg B(3), 2892 Fairmont Dr, San Leandro R1187351	
SAMPLE ID	ASBESTOS TYPE	OTHER DATA	DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD LAB
B-5B	None Detected	1)None Detected 2)99-100% Opq, Qtz	CMU mortar - Grey. Bldg B(3) - Exterior - S.W corner
Lab ID # 1434-03374-014		3)Apr-19-18 4) Apr-26-18	Mortar-Grey
B-5C	None Detected	1)None Detected 2)99-100% Opq, Qtz	CMU mortar - Grey. Bldg B(3) - Exterior - N.W corner
Lab ID # 1434-03374-015		3) Apr-19-18 4) Apr-26-18	Mortar-Grey
B-6A	None Detected	1)None Detected 2)99-100% Glue	Wood panel glue - Brown. B(3) - Interior wood panel & furred out strip North wall
Lab ID # 1434-03374-016		3) Apr-19-18 4) Apr-26-18	Glue-Brown/Yellow
B-6B	None Detected	1)None Detected 2)99-100% Glue	Wood panel glue - Brown. B(3) - Interior wood panel & furred out strip North wall
Lab ID # 1434-03374-017		3) Apr-19-18 4) Apr-26-18	Glue-Brown/Yellow
B-6C	None Detected	1)None Detected 2)99-100% Glue	Wood panel glue - Brown. B(3) - Interior wood panel & furred out strip North wall
Lab ID # 1434-03374-018		3) Apr-19-18 4)Apr-26-18	Glue-Brown/Yellow
B-7A	None Detected	1)None Detected 2)99-100% Qtz, Calc, Opq	Concrete slab. B(3) - Addition - S.W corner of slab.
Lab ID # 1434-03374-019		3) Apr-19-18 4) Apr-26-18	Concrete-Grey
B-7B	None Detected	1)None Detected 2)99-100% Qtz, Calc, Opq	Concrete slab. B(3) - Addition - S.W corner of slab.
Lab ID # 1434-03374-020		3) Apr-19-18 4)Apr-26-18	Concrete-Grey
B-7C	None Detected	1)None Detected 2)99-100% Qtz, Calc, Opq	Concrete slab. B(3) - Addition - S.W corner of slab.
Lab ID # 1434-03374-021		3) Apr-19-18 4)Apr-26-18	Concrete-Grey
B-8A	None Detected	1)50-60% Cellulose 2)40-50% Tar	Vapor barrier - Black under wood plank. B(3)-Wood divider between Bldg B & Addition - S. side
Lab ID # 1434-03374-022		3) Apr-19-18 4)Apr-26-18	Vapor barrier-Black
B-8B	None Detected	1)50-60% Cellulose 2)40-50% Tar	Vapor barrier - Black under wood plank. B(3)-Wood divider between Bldg B & Addition - S. side
Lab ID # 1434-03374-023		3) Apr-19-18 4)Apr-26-18	Vapor barrier-Black

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst 

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POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

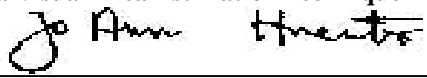
EPA Method 600/R-93/116 or 600/M4-82-020

Page: 4 of

Contact: W. Frieszell Address: Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608	Samples Indicated: 24 Reg. Samples Analyzed: 24 Split Layers Analyzed: 7 Job Site / No. Nike Missile Site, Bldg B(3), 2892 Fairmont Dr, San Leandro R1187351	Report No. 357343 Date Submitted: Apr-19-18 Date Reported: Apr-26-18
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SAMPLE ID	% ASBESTOS TYPE	OTHER DATA		DESCRIPTION
		1) Non-Asbestos Fibers	2) Matrix Materials	
		3) Date/Time Collected	4) Date Analyzed	FIELD LAB
B-8C	None Detected	1) 50-60% Cellulose		Vapor barrier - Black under wood plank. B(3)-
Lab ID # 1434-03374-024		2) 40-50% Tar		Wood divider between Bldg B & Addition - S. side
		3) Apr-19-18	4) Apr-26-18	Vapor barrier-Black
Lab ID #		1)		
		2)		
Lab ID #		3)	4)	
		1)		
Lab ID #		2)		
		3)	4)	
Lab ID #		1)		
		2)		
Lab ID #		3)	4)	
		1)		
Lab ID #		2)		
		3)	4)	
Lab ID #		1)		
		2)		
Lab ID #		3)	4)	
		1)		
Lab ID #		2)		
		3)	4)	
Lab ID #		1)		
		2)		
Lab ID #		3)	4)	

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst 

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B.3

B.2

B.1

B

3

357343

Terracon

***E-MAIL REPORT TO:

SEE BELOW PROJECT MANAGER (PM)***

ADDITIONAL RECIPIENTS

☐ denise.wall@terracon.com
 ☐ eric.dyer@terracon.com

☐ PM - S. Steiner
spsteiner@terracon.com

☐ PM - K. Schroeter
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☐ PM - K. Pilgrim
kmpilgrim@terracon.com

☐ PM - M. Benefield
msbenefield@terracon.com

☐ PM - T. Kettchee
takettchee@terracon.com

☒ PM - W. Frieszel
wmfrieszel@terracon.com

ACM BULK SAMPLE DATA SHEET

- ☒ PLM Analysis (Analyze all samples)
☐ Stop Analysis at First Positive
☐ Point Count Analysis (400-point)

PAGE ___ OF ___

Project Name/Address/ Building No. Nike Missile Site, Bldg B (3), 2892 Fairmont Dr, San Diego, CA

Project# 1187351 Sampled By: Sampling Date: 4/19/18

Sample(s) sent to: ☐ MAL ☐ AERO ☐ EMLAB ☐ Other Acbestos + EMTAT ☐ Rush ☐ 24HRS ☐ 48HR ☒ 3-5 days

HM#	Material Description	Sample Location & Material Location	Quantity:
B-1A	9" Black UFT + BIK Acrylic	Bldg B (3) - Main Bldg	Black Acrylic
L-1B		1 Addition	
HM#	Material Description:	Sample Location & Material Location	Quantity:
B-2A	Window Caulk	Bldg B (3) - 1 Door	
L-2B		1	
HM#	Material Description:	Sample Location & Material Location	Quantity:
B-3A	Brown Fiber Board	Bldg B (3) - Addition Ceiling	
L-3B		1	
HM#	Material Description:	Sample Location & Material Location	Quantity:
B-4A	Fiberglass Batt - Vapor Barrier	Bldg B (3) - Addition - over Fiberboard Ceily (Falling Down)	
L-4B		1	
HM#	Material Description:	Sample Location & Material Location	Quantity:
B-5A	CMU Mortar - Grey	Bldg B (3) - Exterior - S.E. Corner	
L-5B		1 - S.W. Corner	
L-5C		1 - N.W. Corner	

Relinquished By: R. Caldwell

Received By: Gabriela

Relinquished By:

Received By:

Signature:

Signature:

Signature:

Signature:

Date/Time:

Date/Time: APR 19 '18 4:15PM

Date/Time:

Date/Time:

1466 66th Street Emeryville CA 94608 Tel: (510) 547-7771 Fax: (510) 547-1983

Updated 02.23.2018

357343

Terracon

***E-MAIL REPORT TO:

SEE BELOW PROJECT MANAGER (PM)***

ADDITIONAL RECIPIENTS

☐ denise.wallace@terracon.com ☐ eric.dyer@terracon.com

☐ PM - S. Steiner
spsteiner@terracon.com

☐ PM - K. Schroeter
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☐ PM - K. Pilgrim
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☐ PM - M. Benefield
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☐ PM - T. Kattchee
takattchee@terracon.com

☒ PM - W. Frieszel
wmfrieszel@terracon.com

ACM BULK SAMPLE DATA SHEET

- ☒ PLM Analysis (Analyze all samples)
☐ Stop Analysis at First Positive
☐ Point Count Analysis (400-point)

PAGE ___ OF ___

Project Name/Address/ Building No. Nike Missile Site, Bldg B, 2092 Fairmont Dr, San Leandro, CA

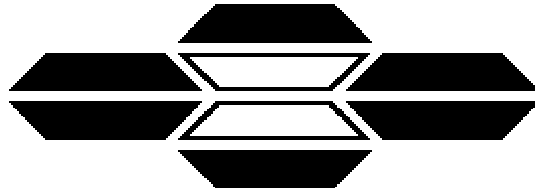
Project# 1187351 Sampled By: ACHSOSTEM Sampling Date: 4/19/18

Sample(s) sent to: ☐ MAL ☐ AERO ☐ EMLAB ☐ Other

TAT ☐ Rush ☐ 24HRS ☐ 48HR ☒ 3-5 days

HM#	Material Description	Sample ID	Sample Location & Material Location	Quantity:
	<u>Wood Panel Blue - Brown</u>			
<u>B - 6A</u>	<u>B(3) - Interior Wood Panel + Furrow out Strip North wall</u>	<u>1 - 6B</u>	<u>1 -</u>	<u>1</u>
HM#	Material Description:	Sample ID	Sample Location & Material Location	Quantity:
	<u>Concrete Slab</u>			
<u>B - 7A</u>	<u>B(3) - Addition - S.W. Corner of Slab</u>	<u>1 - 7B</u>	<u>1 - S.E. corner of Slab</u>	<u>1</u>
			<u>1 - N.E. corner of Slab</u>	
HM#	Material Description:	Sample ID	Sample Location & Material Location	Quantity:
	<u>Vapor Barrier - Black under wood plank</u>			
<u>B - 8A</u>	<u>B(3) - Wood Divider Between Bldg B + Addition - South Side</u>	<u>1 - 8B</u>	<u>1 -</u>	<u>1</u>
HM#	Material Description:	Sample ID	Sample Location & Material Location	Quantity:
HM#	Material Description:	Sample ID	Sample Location & Material Location	Quantity:

Relinquished By: R. Caldwell Signature: [Signature] Date/Time: 4/19/18
Received By: _____ Signature: _____ Date/Time: _____
Relinquished By: _____ Signature: _____ Date/Time: _____
Received By: _____ Signature: _____ Date/Time: _____



ASBESTOS TEM LABORATORIES, INC.

EPA Interim Method Polarized Light Microscopy Analytical Report

Laboratory Job # 357346

600 Bancroft Way, Ste. A
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ASBESTOS TEM LABORATORIES, INC

CA DPH ELAP
Lab No. 1866



NVLAP Lab Code: 101891-0
Berkeley, CA

Apr-26-18

W. Frieszell
Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

RE: LABORATORY JOB # 357346

Polarized light microscopy analytical results for 18 bulk sample(s) with 6 sample split(s)
Job Site: Nike Missile Site, Bldg C, 2892 Fairmont Dr, San Leandro, CA
Job No.: R1187351

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with EPA Method 600/R-93/116 or 600/M4-82-020 for the determination of asbestos in bulk building materials by polarized light microscopy (PLM). Please note that while PLM analysis is commonly performed on non-friable and fine grained materials such as floor tiles and dust, the EPA method recognizes that PLM is subject to limitations. In these situations, accurate results may only be obtainable through the use of more sophisticated and accurate techniques such as transmission electron microscopy (TEM) or X-ray diffraction (XRD).

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Each sample is opened in a class 100 HEPA negative air hood. A representative sampling of the material is selected and placed onto a glass microscope slide containing a drop of refractive index oil. The glass slide is placed under a polarizing light microscope where standard mineralogical techniques are used to analyze and quantify the various materials present, including asbestos. The data is then compiled into a standard report format and reviewed by the authorized signatory before being released to the client.

Sincerely Yours,

Lab Manager
ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, with the approval of the laboratory. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. ---

Note: Test samples will be stored for three months after data of receipt, after which they will be properly disposed unless client makes other arrangements with the laboratory.

POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 1 of

Contact: W. Frieszell Address: Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608		Samples Indicated: 18 Reg. Samples Analyzed: 18 Split Layers Analyzed: 6 Job Site / No. Nike Missile Site, Bldg C, 2892 Fairmont Dr, San Leandro, CA R1187351		Report No. 357346 Date Submitted: Apr-19-18 Date Reported: Apr-26-18	
--	--	---	--	---	--

SAMPLE ID	%	ASBESTOS TYPE	OTHER DATA	DESCRIPTION
			1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD <hr/> LAB
C-1A Lab ID # 1434-03377-001		None Detected	1) None Detected	Exterior mortar. Exterior
			2) 99-100% Qtz, Calc, Opq	
			3) Apr-19-18 4) Apr-26-18	Mortar-Grey
C-1B Lab ID # 1434-03377-002		None Detected	1) None Detected	Exterior mortar. Exterior
			2) 99-100% Qtz, Calc, Opq	
			3) Apr-19-18 4) Apr-26-18	Mortar-Grey
C-1C Lab ID # 1434-03377-003		None Detected	1) None Detected	Exterior mortar. Exterior
			2) 99-100% Qtz, Calc, Opq	
			3) Apr-19-18 4) Apr-26-18	Mortar-Grey
C-2A Lab ID # 1434-03377-004A	1-5%	Chrysotile	1) None Detected	9" Green VFT w/ black mastic. North office.
			2) 95-99% Opq, Calc	
			3) Apr-19-18 4) Apr-26-18	Floor Tile-Green
C-2A Lab ID # 1434-03377-004B	1-5%	Chrysotile	1) None Detected	9" Green VFT w/ black mastic. North office.
			2) 95-99% Tar	
			3) 4) Apr-26-18	Mastic-Black
C-2B Lab ID # 1434-03377-005A	1-5%	Chrysotile	1) None Detected	9" Green VFT w/ black mastic. North office.
			2) 95-99% Opq, Calc	
			3) Apr-19-18 4) Apr-26-18	Floor Tile-Green
C-2B Lab ID # 1434-03377-005B	1-5%	Chrysotile	1) None Detected	
			2) 95-99% Tar	
			3) 4) Apr-26-18	Mastic-Black
C-2C Lab ID # 1434-03377-006A	1-5%	Chrysotile	1) None Detected	9" Green VFT w/ black mastic. North office.
			2) 95-99% Opq, Calc	
			3) Apr-19-18 4) Apr-26-18	Floor Tile-Green
C-2C Lab ID # 1434-03377-006B	1-5%	Chrysotile	1) None Detected	
			2) 95-99% Tar	
			3) 4) Apr-26-18	Mastic-Black
C-3A Lab ID # 1434-03377-007A		None Detected	1) 20-40% Cellulose, Fiberglass	1'x1' Round hole ceiling tile & brown adhesive.
			2) 60-80% Opq, GlassFrgs	North office - 20'x30'
			3) Apr-19-18 4) Apr-26-18	Ceiling Tile-Grey

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst

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POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

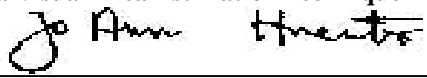
EPA Method 600/R-93/116 or 600/M4-82-020

Page: **3** of

Contact: W. Frieszell	Samples Indicated: 18	Report No. 357346
Address: Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608	Reg. Samples Analyzed: 18 Split Layers Analyzed: 6	Date Submitted: Apr-19-18 Date Reported: Apr-26-18
Job Site / No. Nike Missile Site, Bldg C, 2892 Fairmont Dr, San Leandro, CA R1187351		

SAMPLE ID	% ASBESTOS TYPE	OTHER DATA	DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD LAB
C-5C	None Detected	1) None Detected 2) 99-100% Calc, Opq	Window caulk. Window - North
Lab ID # 1434-03377-015		3) Apr-19-18 4) Apr-26-18	Caulk-Beige
C-6A	None Detected	1) None Detected 2) 99-100% Opq, Qtz, Calc	Concrete slab. Exterior - West side - North
Lab ID # 1434-03377-016		3) Apr-19-18 4) Apr-26-18	concrete-Grey
C-6B	None Detected	1) None Detected 2) 99-100% Opq, Qtz, Calc	Concrete slab. Exterior - West side - South
Lab ID # 1434-03377-017		3) Apr-19-18 4) Apr-26-18	concrete-Grey
C-6C	None Detected	1) None Detected 2) 99-100% Opq, Qtz, Calc	Concrete slab. Exterior - East side - South side
Lab ID # 1434-03377-018		3) Apr-19-18 4) Apr-26-18	concrete-Grey
		1) 2)	
Lab ID #		3) 4)	
		1) 2)	
Lab ID #		3) 4)	
		1) 2)	
Lab ID #		3) 4)	
		1) 2)	
Lab ID #		3) 4)	
		1) 2)	
Lab ID #		3) 4)	

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst 

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B-3

C-2

D-1

C

2

357346

Terracon

***E-MAIL REPORT TO:
SEE BELOW PROJECT MANAGER (PM)***

ADDITIONAL RECIPIENTS

- ☐ denise.wallin@terracon.com ☐ eric.dyer@terracon.com
- ☐ PM - S. Steiner ☐ PM - K. Schroeter ☐ PM - K. Pilgrim
spsneider@terracon.com kmschroeter@terracon.com kmplgrim@terracon.com
- ☐ PM - M. Benefield ☐ PM - T. Kattchee ☒ PM - W. Frieszel
msbenefield@terracon.com takattchee@terracon.com wmfrieszel@terracon.com

ACM BULK SAMPLE DATA SHEET

- ☒ PLM Analysis (Analyze all samples)
☐ Stop Analysis at First Positive
☐ Point Count Analysis (400-point)

PAGE ___ OF ___

Project Name/Address/ Building No. Mike Aistle Site, Bldg C, 2892 Fairmont Dr, San Leandro, CA

Project# R1187351 Sampled By: [Signature] Sampling Date: 4/19/18

Sample(s) sent to: ☐ MAL ☐ AERO ☐ EMLAB ☐ Other (Asbestos + EM)

TAT ☐ Rush ☐ 24HRS ☐ 48HR ☒ 3-5 days

HM#	Material Description	Quantity:
Sample ID	Sample Location & Material Location	
C-1A	Exterior	
C-1B		
C-1C		
HM#	Material Description: 9" Green VFT w/ Black Matrix	
Sample ID	Sample Location & Material Location	Quantity:
C-2A	North Office	
C-2B		
C-2C		
HM#	Material Description: 1'x1' Round Hole Ceiling Tile w/ Brown Adhesive	
Sample ID	Sample Location & Material Location	Quantity:
C-3A	North Office -	20' x 30'
C-3B		
C-3C		
HM#	Material Description: Window Putty (at glass / wood)	
Sample ID	Sample Location & Material Location	Quantity:
C-4A	North Window	
C-4B		
C-4C		
HM#	Material Description: Window Caulk	
Sample ID	Sample Location & Material Location	Quantity:
C-5A	Window - South	
C-5B		
C-5C		

Relinquished By: R. Caldwell Signature: [Signature] Date/Time: 4/19/18
 Received By: Gabriela Signature: [Signature] Date/Time: 4/19/18 4:22PM
 Relinquished By: Signature: Date/Time:
 Received By: Signature: Date/Time:

β-3

W C-2

D-1

357346

C

2

Terracon

***E-MAIL REPORT TO:
SEE BELOW PROJECT MANAGER (PM)***

ADDITIONAL RECIPIENTS

☐ denise.wall@terracon.com ☐ eric.dyer@terracon.com

☐ PM - S. Steiner
spsteiner@terracon.com

☐ PM - K. Schroeter
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☐ PM - K. Pilgrim
kmpilgrim@terracon.com

☐ PM - M. Benefield
mbenefield@terracon.com

☐ PM - T. Kattichee
takattichee@terracon.com

☒ PM - W. Frieszel
wmfrieszel@terracon.com

ACM BULK SAMPLE DATA SHEET

- ☒ PLM Analysis (Analyze all samples)
☐ Stop Analysis at First Positive
☐ Point Count Analysis (400-point)

PAGE ___ OF ___

Project Name/Address/ Building No. Nike Missile Site, Bldg (C), 2892 Fairmont Dr, San Leandro, CA

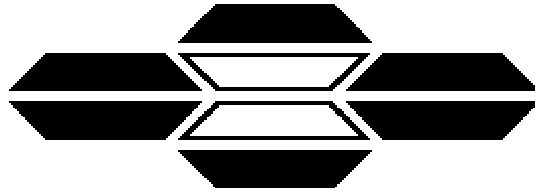
Project# 1187351 Sampled By: [Signature] Sampling Date: 4/19/18

Sample(s) sent to: ☐ MAL ☐ AERO ☐ EMLAB ☐ Other Asbestos (EM)

TAT ☐ Rush ☐ 24HRS ☐ 48HR ☒ 3-5 days

HM#	Material Description	Quantity:
Sample ID	Sample Location & Material Location	
C-6A	Exterior - West side - North	
C-6B	↓ - South	
C-6C	↓ - East Side - Southside	
HM#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	
A		
B		
C		
HM#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	
A		
B		
C		
HM#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	
A		
B		
C		
HM#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	

Relinquished By: R. Caldwell Signature: [Signature] Date/Time: 4/19/18
 Received By: Gabriela Signature: [Signature] Date/Time: _____
 Relinquished By: _____ Signature: _____ Date/Time: _____
 Received By: _____ Signature: _____ Date/Time: _____



ASBESTOS TEM LABORATORIES, INC.

EPA Interim Method Polarized Light Microscopy Analytical Report

Laboratory Job # 357344

600 Bancroft Way, Ste. A
Berkeley, CA 94710
(510) 704-8930
FAX (510) 704-8429
www.asbestostemplabs.com

With Branch Offices Located At:

1350 FREEPORT BLVD. UNIT 104, SPARKS, NV 89431
Ph. (775) 359-3377



ASBESTOS TEM LABORATORIES, INC

CA DPH ELAP
Lab No. 1866



NVLAP Lab Code: 101891-0
Berkeley, CA

Apr-26-18

W. Frieszell
Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

RE: LABORATORY JOB # 357344

Polarized light microscopy analytical results for 36 bulk sample(s) with 27 sample split(s)
Job Site: Nike Missile Sit, Bldg D, 2892 Fairmont Dr, San Leandro, CA
Job No.: R1187351

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with EPA Method 600/R-93/116 or 600/M4-82-020 for the determination of asbestos in bulk building materials by polarized light microscopy (PLM). Please note that while PLM analysis is commonly performed on non-friable and fine grained materials such as floor tiles and dust, the EPA method recognizes that PLM is subject to limitations. In these situations, accurate results may only be obtainable through the use of more sophisticated and accurate techniques such as transmission electron microscopy (TEM) or X-ray diffraction (XRD).

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Each sample is opened in a class 100 HEPA negative air hood. A representative sampling of the material is selected and placed onto a glass microscope slide containing a drop of refractive index oil. The glass slide is placed under a polarizing light microscope where standard mineralogical techniques are used to analyze and quantify the various materials present, including asbestos. The data is then compiled into a standard report format and reviewed by the authorized signatory before being released to the client.

Sincerely Yours,

Lab Manager
ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, with the approval of the laboratory. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. ---

Note: Test samples will be stored for three months after data of receipt, after which they will be properly disposed unless client makes other arrangements with the laboratory.

POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 1 of

Contact: W. Frieszell Address: Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608		Samples Indicated: 36 Reg. Samples Analyzed: 36 Split Layers Analyzed: 27 Job Site / No. Nike Missile Sit, Bldg D, 2892 Fairmont Dr, San Leandro, CA R1187351		Report No. 357344 Date Submitted: Apr-19-18 Date Reported: Apr-26-18	
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SAMPLE ID	%	ASBESTOS TYPE	OTHER DATA	DESCRIPTION
			1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD <hr/> LAB
D-1A		None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq	Drywall ceiling and joint compound (Smooth). North room.
Lab ID # 1434-03375-001A			3) Apr-19-18 4) Apr-26-18	Drywall-White
D-1A	1-5%	Chrysotile	1) None Detected 2) 95-99% Opq, Calc	Drywall ceiling and joint compound (Smooth). North room.
Lab ID # 1434-03375-001B			3) 4) Apr-26-18	JointCom/Text-Off-White
D-1B		None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq	Drywall ceiling and joint compound (Smooth). Center.
Lab ID # 1434-03375-002A			3) Apr-19-18 4) Apr-26-18	Drywall-White
D-1B	1-5%	Chrysotile	1) None Detected 2) 95-99% Opq, Calc	
Lab ID # 1434-03375-002B			3) 4) Apr-26-18	JointCom/Text-Off-White
D-1C		None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq	Drywall ceiling and joint compound (Smooth). South room.
Lab ID # 1434-03375-003A			3) Apr-19-18 4) Apr-26-18	Drywall-White
D-1C	1-5%	Chrysotile	1) None Detected 2) 95-99% Opq, Calc	
Lab ID # 1434-03375-003B			3) 4) Apr-26-18	JointCom/Text-Off-White
D-2A		None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq	Drywall and joint compound. West room - North wall (Ceiling & debris)
Lab ID # 1434-03375-004A			3) Apr-19-18 4) Apr-26-18	Drywall-White
D-2A	1-5%	Chrysotile	1) None Detected 2) 95-99% Opq, Calc	
Lab ID # 1434-03375-004B			3) 4) Apr-26-18	JointCom/Text-Off-White
D-2B		None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq	Drywall and joint compound. West room - North wall (floor)
Lab ID # 1434-03375-005A			3) Apr-19-18 4) Apr-26-18	Drywall-White
D-2B	1-5%	Chrysotile	1) None Detected 2) 95-99% Opq, Calc	
Lab ID # 1434-03375-005B			3) 4) Apr-26-18	JointCom/Text-Off-White

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst

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POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 2 of

Contact: W. Frieszell Address: Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608		Samples Indicated: 36 Reg. Samples Analyzed: 36 Split Layers Analyzed: 27 Job Site / No. Nike Missile Sit, Bldg D, 2892 Fairmont Dr, San Leandro, CA R1187351		Report No. 357344 Date Submitted: Apr-19-18 Date Reported: Apr-26-18	
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SAMPLE ID	%	ASBESTOS TYPE	OTHER DATA	DESCRIPTION
			1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD <hr/> LAB
D-2C		None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq	Drywall and joint compound. West room - West wall. <hr/> Drywall-White
Lab ID # 1434-03375-006A			3) Apr-19-18 4) Apr-26-18	
D-2C	1-5%	Chrysotile	1) None Detected 2) 95-99% Opq, Calc	
Lab ID # 1434-03375-006B			3) 4) Apr-26-18	JointCom/Text-Off-White
D-3A		None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq	Drywall texture. West room - North wall. <hr/> Drywall-White
Lab ID # 1434-03375-007A			3) Apr-19-18 4) Apr-26-18	
D-3A	1-5%	Chrysotile	1) None Detected 2) 95-99% Opq, Calc	
Lab ID # 1434-03375-007B			3) 4) Apr-26-18	JointCom/Text-Off-White
D-3B		None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq	Drywall texture. West room - West wall. <hr/> Drywall-White
Lab ID # 1434-03375-008A			3) Apr-19-18 4) Apr-26-18	
D-3B	1-5%	Chrysotile	1) None Detected 2) 95-99% Opq, Calc	
Lab ID # 1434-03375-008B			3) 4) Apr-26-18	JointCom/Text-Off-White
D-3C		None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq	Drywall texture. West room - West wall. <hr/> Drywall-White
Lab ID # 1434-03375-009A			3) Apr-19-18 4) Apr-26-18	
D-3C	1-5%	Chrysotile	1) None Detected 2) 95-99% Opq, Calc	
Lab ID # 1434-03375-009B			3) 4) Apr-26-18	JointCom/Text-Off-White
D-4A	1-5%	Chrysotile	1) None Detected 2) 95-99% Calc, Bndr	9" Black VFT & mastic - Black & white VFT & black mastic. N. room - 2 layers Black on white. <hr/> Floor Tile-Black
Lab ID # 1434-03375-010A			3) Apr-19-18 4) Apr-26-18	
D-4A	1-5%	Chrysotile	1) None Detected 2) 95-99% Tar	9" Black VFT & mastic - Black & white VFT & black mastic. N. room - 2 layers Black on white. <hr/> Mastic-Black
Lab ID # 1434-03375-010B			3) 4) Apr-26-18	

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst

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POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: **3** of

Contact: W. Frieszell		Samples Indicated: 36	Report No. 357344	
Address: Terracon Consultants, Inc.		Reg. Samples Analyzed: 36	Date Submitted: Apr-19-18	
1466 66th Street		Split Layers Analyzed: 27	Date Reported: Apr-26-18	
Emeryville, CA 94608		Job Site / No. Nike Missile Sit, Bldg D, 2892 Fairmont Dr, San Leandro,CA R1187351		
SAMPLE ID		OTHER DATA		DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed		
ASBESTOS TYPE		FIELD LAB		
D-4A	1-5%	Chrysotile	1)None Detected	9" Black VFT & mastic - Black & white VFT & black mastic. N. room - 2 layers Black on white.
			2)95-99% Calc, Bndr	
Lab ID # 1434-03375-010C			3)4) Apr-26-18	Floor Tile-Black/White
D-4A	1-5%	Chrysotile	1)None Detected	9" Black VFT & mastic - Black & white VFT & black mastic. N. room - 2 layers Black on white.
			2)95-99% Tar	
Lab ID # 1434-03375-010D			3)4) Apr-26-18	Mastic-Black
D-4B	1-5%	Chrysotile	1)None Detected	9" Black VFT & mastic - Black & white VFT & black mastic. Center room
			2)95-99% Calc, Bndr	
Lab ID # 1434-03375-011A			3) Apr-19-184) Apr-26-18	Floor Tile-Black
D-4B	1-5%	Chrysotile	1)None Detected	
			2)95-99% Tar	
Lab ID # 1434-03375-011B			3)4) Apr-26-18	Mastic-Black
D-4B	1-5%	Chrysotile	1)None Detected	
			2)95-99% Calc, Bndr	
Lab ID # 1434-03375-011C			3)4)Apr-26-18	Floor Tile-Black/White
D-4B	1-5%	Chrysotile	1)None Detected	
			2)95-99% Tar	
Lab ID # 1434-03375-011D			3)4) Apr-26-18	Mastic-Black
D-4C	1-5%	Chrysotile	1)None Detected	9" Black VFT & mastic - Black & white VFT & black mastic. South room
			2)95-99% Calc, Bndr	
Lab ID # 1434-03375-012A			3) Apr-19-184)Apr-26-18	Floor Tile-Black
D-4C	1-5%	Chrysotile	1)None Detected	
			2)95-99% Tar	
Lab ID # 1434-03375-012B			3)4)Apr-26-18	Mastic-Black
D-4C	1-5%	Chrysotile	1)None Detected	
			2)95-99% Calc, Bndr	
Lab ID # 1434-03375-012C			3)4)Apr-26-18	Floor Tile-Black/White
D-4C	1-5%	Chrysotile	1)None Detected	
			2)95-99% Tar	
Lab ID # 1434-03375-012D			3)4)Apr-26-18	Mastic-Black

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst 

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POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: **4** of

Contact: W. Frieszell Address: Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608		Samples Indicated: 36 Reg. Samples Analyzed: 36 Split Layers Analyzed: 27 Job Site / No. Nike Missile Sit, Bldg D, 2892 Fairmont Dr, San Leandro, CA R1187351		Report No. 357344 Date Submitted: Apr-19-18 Date Reported: Apr-26-18	
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SAMPLE ID	%	ASBESTOS TYPE	OTHER DATA	DESCRIPTION
			1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD <hr/> LAB
D-5A	1-5%	Chrysotile	1) None Detected 2) 95-99% Calc, Opq, Bndr	9" Red VFT & mastic. West room.
Lab ID # 1434-03375-013A			3) Apr-19-18 4) Apr-26-18	Floor Tile-Red
D-5A	1-5%	Chrysotile	1) None Detected 2) 95-99% Tar	9" Red VFT & mastic. West room.
Lab ID # 1434-03375-013B			3) 4) Apr-26-18	Mastic-Black
D-5B	1-5%	Chrysotile	1) None Detected 2) 95-99% Calc, Opq, Bndr	9" Red VFT & mastic. West room.
Lab ID # 1434-03375-014A			3) Apr-19-18 4) Apr-26-18	Floor Tile-Red
D-5B	1-5%	Chrysotile	1) None Detected 2) 95-99% Tar	
Lab ID # 1434-03375-014B			3) 4) Apr-26-18	Mastic-Black
D-5C	1-5%	Chrysotile	1) None Detected 2) 95-99% Calc, Opq, Bndr	9" Red VFT & mastic. West room.
Lab ID # 1434-03375-015A			3) Apr-19-18 4) Apr-26-18	Floor Tile-Red
D-5C	1-5%	Chrysotile	1) None Detected 2) 95-99% Tar	
Lab ID # 1434-03375-015B			3) 4) Apr-26-18	Mastic-Black
D-6A		None Detected	1) None Detected 2) 99-100% Calc, Qtz	Window caulk. South room - West wall
Lab ID # 1434-03375-016			3) Apr-19-18 4) Apr-26-18	Caulk-Beige
D-6B		None Detected	1) None Detected 2) 99-100% Calc, Qtz	Window caulk. South room - West wall
Lab ID # 1434-03375-017			3) Apr-19-18 4) Apr-26-18	Caulk-Beige
D-6C		None Detected	1) None Detected 2) 99-100% Calc, Qtz	Window caulk. South room - West wall
Lab ID # 1434-03375-018			3) Apr-19-18 4) Apr-26-18	Caulk-Beige
D-7A		None Detected	1) None Detected 2) 99-100% Calc, Opq, Qtz	Exterior - CMU mortar. Exterior
Lab ID # 1434-03375-019			3) Apr-19-18 4) Apr-26-18	Mortar-Grey

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst

ASBESTOS TEM LABORATORIES, INC.
www.asbestostemplabs.com

600 Bancroft Way, Ste. A, Berkeley CA 94710 (510) 704-8930
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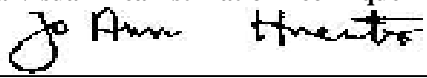
POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 5 of

Contact: W. Frieszell		Samples Indicated: 36	Report No. 357344
Address: Terracon Consultants, Inc.		Reg. Samples Analyzed: 36	Date Submitted: Apr-19-18
1466 66th Street		Split Layers Analyzed: 27	Date Reported: Apr-26-18
Emeryville, CA 94608		Job Site / No. Nike Missile Sit, Bldg D, 2892 Fairmont Dr, San Leandro,CA R1187351	
SAMPLE ID	% ASBESTOS TYPE	OTHER DATA	DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD LAB
D-7B	None Detected	1)None Detected 2)99-100% Qtz, Calc	Exterior - CMU mortar. Exterior
Lab ID # 1434-03375-020		3) Apr-19-18 4) Apr-26-18	Mortar-Grey
D-7C	None Detected	1)None Detected 2)99-100% Qtz, Calc	Exterior - CMU mortar. Exterior
Lab ID # 1434-03375-021		3) Apr-19-18 4) Apr-26-18	Mortar-Grey
D-8A	None Detected	1)None Detected 2)99-100% Calc, Qtz	Slab - Concrete. South - Corner
Lab ID # 1434-03375-022		3) Apr-19-18 4) Apr-26-18	Concrete-Grey
D-8B	None Detected	1)None Detected 2)99-100% Calc, Qtz	Slab - Concrete. South - Corner
Lab ID # 1434-03375-023		3) Apr-19-18 4) Apr-26-18	Concrete-Grey
D-8C	None Detected	1)None Detected 2)99-100% Calc, Qtz	Slab - Concrete. North - Doorway.
Lab ID # 1434-03375-024		3) Apr-19-18 4)Apr-26-18	Concrete-Grey
D-9A	None Detected	1)99-100% Cellulose 2)None Detected	Wood wall panel - Black mastic. North room (1 room) 2 walls.
Lab ID # 1434-03375-025A		3) Apr-19-18 4) Apr-26-18	Wall Panel-Tan
D-9A	1-5% Chrysotile	1)None Detected 2)95-99% Tar	Wood wall panel - Black mastic. North room (1 room) 2 walls.
Lab ID # 1434-03375-025B		3) 4)Apr-26-18	Mastic-Black
D-9B	None Detected	1)99-100% Cellulose 2)None Detected	Wood wall panel - Black mastic. North room (1 room) 2 walls.
Lab ID # 1434-03375-026A		3) Apr-19-18 4)Apr-26-18	Wall Panel-Tan
D-9B	1-5% Chrysotile	1)None Detected 2)95-99% Tar	
Lab ID # 1434-03375-026B		3) 4)Apr-26-18	Mastic-Black
D-9C	None Detected	1)99-100% Cellulose 2)None Detected	Wood wall panel - Black mastic. North room (1 room) 2 walls.
Lab ID # 1434-03375-027A		3) Apr-19-18 4)Apr-26-18	Wall Panel-Tan

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst 

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POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: **6** of

Contact: W. Frieszell		Samples Indicated: 36	Report No. 357344	
Address: Terracon Consultants, Inc.		Reg. Samples Analyzed: 36	Date Submitted: Apr-19-18	
1466 66th Street		Split Layers Analyzed: 27	Date Reported: Apr-26-18	
Emeryville, CA 94608		Job Site / No. Nike Missile Sit, Bldg D, 2892 Fairmont Dr, San Leandro,CA R1187351		
SAMPLE ID		OTHER DATA		DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed		
ASBESTOS TYPE		FIELD LAB		
D-9C	1-5% Chrysotile	1)None Detected 2)95-99% Tar		
		3) 4) Apr-26-18		Mastic-Black
D-10A	30-40% Chrysotile	1)None Detected 2)60-70% Calc, Opq, Qtz		Transite. Entrance area (Exterior) at North doorway. 400 s.f
		3) Apr-19-18 4) Apr-26-18		Transite-Grey
D-10B	30-40% Chrysotile	1)None Detected 2)60-70% Calc, Opq, Qtz		Transite. Entrance area (Exterior) at South doorway. 400 s.f
		3) Apr-19-18 4) Apr-26-18		Transite-Grey
D-10C	30-40% Chrysotile	1)None Detected 2)60-70% Calc, Opq, Qtz		Transite. Restroom ceiling
		3) Apr-19-18 4) Apr-26-18		Transite-Grey
D-11A	None Detected	1)1-5% Cellulose 2)95-99% Calc, Opq		3" red cove base w/ brown glue. South room - West wall.
		3) Apr-19-18 4)Apr-26-18		Baseboard-Red
D-11A	None Detected	1)None Detected 2)99-100% Glue		3" red cove base w/ brown glue. South room - West wall.
		3) 4) Apr-26-18		Glue-Brown
D-11B	None Detected	1)1-5% Cellulose 2)95-99% Calc, Opq		3" red cove base w/ brown glue. South room - West wall.
		3) Apr-19-18 4)Apr-26-18		Baseboard-Red
D-11B	None Detected	1)None Detected 2)99-100% Glue		
		3) 4)Apr-26-18		Glue-Brown
D-11C	None Detected	1)1-5% Cellulose 2)95-99% Calc, Opq		3" red cove base w/ brown glue. South room - West wall.
		3) Apr-19-18 4)Apr-26-18		Baseboard-Red
D-11C	None Detected	1)None Detected 2)99-100% Glue		
		3) 4)Apr-26-18		Glue-Brown

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst 

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POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 7 of

Contact: W. Frieszell Address: Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608		Samples Indicated: 36 Reg. Samples Analyzed: 36 Split Layers Analyzed: 27 Job Site / No. Nike Missile Sit, Bldg D, 2892 Fairmont Dr, San Leandro, CA R1187351		Report No. 357344 Date Submitted: Apr-19-18 Date Reported: Apr-26-18	
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SAMPLE ID	%	ASBESTOS TYPE	OTHER DATA	DESCRIPTION
			1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD <hr/> LAB
D-12A		None Detected	1) None Detected 2) 99-100% Glue	Tan glue fur wood panel. North room - East wall
Lab ID # 1434-03375-034			3) Apr-19-18 4) Apr-26-18	Glue-Tan
D-12B		None Detected	1) None Detected 2) 99-100% Glue	Tan glue fur wood panel. North room - East wall
Lab ID # 1434-03375-035			3) Apr-19-18 4) Apr-26-18	Glue-Tan
D-12C		None Detected	1) None Detected 2) 99-100% Glue	Tan glue fur wood panel. North room - East wall
Lab ID # 1434-03375-036			3) Apr-19-18 4) Apr-26-18	Glue-Tan
			1) 2)	
Lab ID #			3) 4)	
			1) 2)	
Lab ID #			3) 4)	
			1) 2)	
Lab ID #			3) 4)	
			1) 2)	
Lab ID #			3) 4)	
			1) 2)	
Lab ID #			3) 4)	
			1) 2)	
Lab ID #			3) 4)	

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

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B3 2 C2

D

357344

Terracon

D-1

E-MAIL REPORT TO: SEE BELOW PROJECT MANAGER (PM)*** ***ADDITIONAL RECIPIENTS*** <input type="checkbox"/> denise.wallen@terracon.com <input type="checkbox"/> eric.dyer@terracon.com <input type="checkbox"/> PM - S. Steiner <input type="checkbox"/> PM - K. Schroeter <input type="checkbox"/> PM - K. Pilgrim spsteiner@terracon.com kmschroeter@terracon.com kmpilgrim@terracon.com <input type="checkbox"/> PM - M. Benefield <input type="checkbox"/> PM - T. Kattchee <input checked="" type="checkbox"/> PM - W. Frieszel msbenefield@terracon.com tkattchee@terracon.com wmfrieszel@terracon.com		ACM BULK SAMPLE DATA SHEET <input checked="" type="checkbox"/> PLM Analysis (Analyze all samples) <input type="checkbox"/> Stop Analysis at First Positive <input type="checkbox"/> Point Count Analysis (400-point) PAGE ____ OF ____
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Project Name/Address/ Building No. Nike Missile Site, Bldg D, 2892 Fairmont Dr, San Leandro, CA
Project# 187351 Sampled By: [Signature] Sampling Date: 4/19/18
Sample(s) sent to: ☐ MAL ☐ AERO ☐ EMLAB ☐ Other Asbestos + EM
TAT ☐ Rush ☐ 24HRS ☐ 48HR ☒ 3-5 days

HM#	Material Description	Sample Location & Material Location	Quantity:
D - 1A	Day wall Ceiling + Joint Compound (Goth)	North Room	
I - 1B		Center	
I - 1C		South Room	
D - 2A	Day wall text / Joint Compound (Rough)	West Room - North wall	(+ Ceiling + Debris on Floor)
I - 2B		I - West wall	
I - 2C		I - West wall	
D - 3A	Day wall texture	West Room - North wall	
I - 3B		I - West wall	
I - 3C		I - West wall	
D - 4A	9" Black VFT + Mastic - Black & white VFT	North Room	2 layers Black on white
I - 4B		Center Room	
I - 4C		South Room	
D - 5A	9" Red VFT + Mastic	West Room	
I - 5B		I	
I - 5C			

Relinquished By: R. Caldwell Signature: [Signature] Date/Time: 4/19/18
Received By: Gabriela Signature: [Signature] Date/Time: 4/19/18
Relinquished By: _____ Signature: _____ Date/Time: _____
Received By: _____ Signature: _____ Date/Time: _____

1466 66th Street Emeryville CA 94608 Tel: (510) 547-7771 Fax: (510) 547-1983
Updated 02.23.2018

B3 □ C L
D-1

357344

Terracon

<p align="center">***E-MAIL REPORT TO: SEE BELOW PROJECT MANAGER (PM)*** ***ADDITIONAL RECIPIENTS***</p> <p> <input type="checkbox"/> denise.wallin@terracon.com <input type="checkbox"/> eric.dyer@terracon.com <input type="checkbox"/> PM - S. Steiner <input type="checkbox"/> PM - K. Schroeter <input type="checkbox"/> PM - K. Pilgrim ssteiner@terracon.com kmschroeter@terracon.com kmpilgrim@terracon.com <input type="checkbox"/> PM - M. Benefield <input type="checkbox"/> PM - T. Kattchee <input checked="" type="checkbox"/> PM - W. Frieszel mbenefield@terracon.com tkattchee@terracon.com wmfrieszel@terracon.com </p>	<p align="center">ACM BULK SAMPLE DATA SHEET</p> <p> <input checked="" type="checkbox"/> PLM Analysis (Analyze all samples) <input type="checkbox"/> Stop Analysis at First Positive <input type="checkbox"/> Point Count Analysis (400-point) </p> <p align="right">PAGE ___ OF ___</p>
---	---

Project Name/Address/ Building No. Nike Missile Site, Bldg D, 2892 Fairmont Dr, San Leandro, CA
Project# RL187351 Sampled By: [Signature] Sampling Date: 4/19/18
Sample(s) sent to: ☐ MAL ☐ AERO ☐ EMLAB ☐ Other Achrostomy
TAT ☐ Rush ☐ 24HRS ☐ 48HR ☒ 3-5 days

HM#	Material Description	Quantity:
Sample ID	Sample Location & Material Location	
D-6A	Window Ceilings	
D-6B	North Room South Wall - West Wall	
D-6C		
HM#	Material Description: Exterior - Concrete	Quantity:
Sample ID	Sample Location & Material Location	
D-7A	Exterior	
D-7B		
D-7C		
HM#	Material Description: Slab - Concrete	Quantity:
Sample ID	Sample Location & Material Location	
D-8A	North South - Corridor	
D-8B		
D-8C	South North - Parkway	
HM#	Material Description: Load Wall Panel - Black Rustic	Quantity:
Sample ID	Sample Location & Material Location	
D-9A	NORTH Room (1 Room) 2 WALLS	
D-9B		
D-9C		
HM#	Material Description: Transite	Quantity:
Sample ID	Sample Location & Material Location	
D-10A	Entrance Area (Exterior) - at North Doorway	
D-10B		
D-10C	Rest Room Ceiling -	

Relinquished By: R. Caldwell Signature: [Signature] Date/Time: 4/19/18
Received By: _____ Signature: _____ Date/Time: 4/19/18 4:21PM
Relinquished By: _____ Signature: _____ Date/Time: _____
Received By: _____ Signature: _____ Date/Time: _____

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Updated 02.23.2018

357344
Terracon

10 D-1

***E-MAIL REPORT TO:

SEE BELOW PROJECT MANAGER (PM)***

ADDITIONAL RECIPIENTS

☐ denise.wallen@terracon.com ☐ eric.dyer@terracon.com

□ PM – S. Steiner
spsteiner@terracon.com

□ PM – K. Schroeter
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□ PM – K. Pilgrim
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□ PM- M. Benefield
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□ PM – T. Kattchee
takattchee@terracon.com

PM - W. Frieszell
wmfrieszell@terracop.com

ACM BULK SAMPLE DATA SHEET

☒ PLM Analysis (Analyze all samples)
☐ Stop Analysis at First Positive
☐ Point Count Analysis (400-point)

PAGE OF

Project Name/Address/ Building No. Nike Missile Site, Bldg 2, 2892 Fairmont Dr, San Diego, CA

Project# 041187351 Sampled By: [Signature] Sampling Date: 4/19/18

Sample(s) sent to: ☐ MAL ☐ AERO ☒ EMLAB ☐ Other

TAT ☐ Rush ☐ 24HRS ☐ 48HR ☒ 3-5 days

HM#	Material Description	Sample Location & Material Location	Quantity:
D-11	A	South Bay - West Wall	
L-11	B		
L-11	C		
D-12	A	North Room - East Wall	
L-12	B		
L-12	C		
HM#	Material Description:	Sample Location & Material Location	Quantity:
Sample ID			
HM#	Material Description:	Sample Location & Material Location	Quantity:
Sample ID			
HM#	Material Description:	Sample Location & Material Location	Quantity:
Sample ID			

Relinquished By: R. Calley V

Signature: PHL

Date/Time: 9/17/18

Received By:

Signature:

Date/ Time: _____

Relinquished By:

Signature:

Date/Time: 01/03/2015 10:42:11

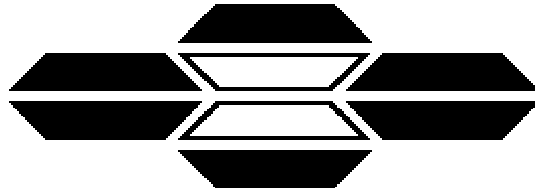
Received By:

Signature:

Date/Time: _____

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Updated 02.23.2018



ASBESTOS TEM LABORATORIES, INC.

EPA Interim Method Polarized Light Microscopy Analytical Report

Laboratory Job # 357345

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Berkeley, CA 94710
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FAX (510) 704-8429
www.asbestostemplabs.com

With Branch Offices Located At:

1350 FREEPORT BLVD. UNIT 104, SPARKS, NV 89431
Ph. (775) 359-3377



ASBESTOS TEM LABORATORIES, INC

CA DPH ELAP
Lab No. 1866



NVLAP Lab Code: 101891-0
Berkeley, CA

Apr-27-18

W. Frieszell
Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

RE: LABORATORY JOB # 357345
Polarized light microscopy analytical results for 21 bulk sample(s).
Job Site: Nike Missile Site - Guard Shack, 2892 Fairmont Dr.
Job No.: R1187351

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with EPA Method 600/R-93/116 or 600/M4-82-020 for the determination of asbestos in bulk building materials by polarized light microscopy (PLM). Please note that while PLM analysis is commonly performed on non-friable and fine grained materials such as floor tiles and dust, the EPA method recognizes that PLM is subject to limitations. In these situations, accurate results may only be obtainable through the use of more sophisticated and accurate techniques such as transmission electron microscopy (TEM) or X-ray diffraction (XRD).

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Each sample is opened in a class 100 HEPA negative air hood. A representative sampling of the material is selected and placed onto a glass microscope slide containing a drop of refractive index oil. The glass slide is placed under a polarizing light microscope where standard mineralogical techniques are used to analyze and quantify the various materials present, including asbestos. The data is then compiled into a standard report format and reviewed by the authorized signatory before being released to the client.

Sincerely Yours,

Lab Manager
ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, with the approval of the laboratory. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. ---

Note: Test samples will be stored for three months after data of receipt, after which they will be properly disposed unless client makes other arrangements with the laboratory.

POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 1 of

Contact: W. Frieszell Address: Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608	Samples Indicated: 21 Reg. Samples Analyzed: 21 Split Layers Analyzed: 0 Job Site / No. Nike Missile Site - Guard Shack, 2892 Fairmont Dr. R1187351	Report No. 357345 Date Submitted: Apr-20-18 Date Reported: Apr-27-18
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SAMPLE ID	%	ASBESTOS TYPE	OTHER DATA	DESCRIPTION
			1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD <hr/> LAB
X-1A Lab ID # 1434-03376-001		None Detected	1) 20-40% Cellulose, Fiberglass 2) 60-80% Opq, Other m.p.	1x1' Ceiling tile (no glue) styled. Guard shack Ceiling 8'x5'
			3) Apr-19-18 4) Apr-27-18	Ceiling Tile-Grey
X-1B Lab ID # 1434-03376-002		None Detected	1) 20-40% Cellulose, Fiberglass 2) 60-80% Opq, Other m.p.	1x1' Ceiling tile (no glue) styled. Guard shack Ceiling 8'x5'
			3) Apr-19-18 4) Apr-27-18	Ceiling Tile-Grey
X-1C Lab ID # 1434-03376-003		None Detected	1) 20-40% Cellulose, Fiberglass 2) 60-80% Opq, Other m.p.	1x1' Ceiling tile (no glue) styled. Guard shack Ceiling 8'x5'
			3) Apr-19-18 4) Apr-27-18	Ceiling Tile-Grey
X-2A Lab ID # 1434-03376-004		None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq	Drywall (No joint or texture). Guard shack - East wall
			3) Apr-19-18 4) Apr-27-18	Drywall-White
X-2B Lab ID # 1434-03376-005		None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq	Drywall (No joint or texture). Guard shack - East wall
			3) Apr-19-18 4) Apr-27-18	Drywall-White
X-2C Lab ID # 1434-03376-006		None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq	Drywall (No joint or texture). Guard shack - East wall
			3) Apr-19-18 4) Apr-27-18	Drywall-White
X-3A Lab ID # 1434-03376-007		None Detected	1) 1-5% Cellulose 2) 95-99% Opq, Calc	Window caulk. Guard shack - North window.
			3) Apr-19-18 4) Apr-27-18	Caulk-Grey
X-3B Lab ID # 1434-03376-008		None Detected	1) 1-5% Cellulose 2) 95-99% Opq, Calc	Window caulk. Guard shack - North window.
			3) Apr-19-18 4) Apr-27-18	Caulk-Grey
X-3C Lab ID # 1434-03376-009		None Detected	1) 1-5% Cellulose 2) 95-99% Opq, Calc	Window caulk. Guard shack - North window.
			3) Apr-19-18 4) Apr-27-18	Caulk-Grey
X-4A Lab ID # 1434-03376-010		None Detected	1) 1-5% Fiberglass 2) 95-99% Tar, Opq	Roof system - Tart & gravel. Guard shack - 8'x5'
			3) Apr-19-18 4) Apr-27-18	Roofing Felt/Tar-Black

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst

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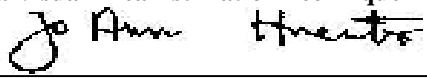
POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 2 of

Contact: W. Frieszell		Samples Indicated: 21	Report No. 357345
Address: Terracon Consultants, Inc.		Reg. Samples Analyzed: 21	Date Submitted: Apr-20-18
1466 66th Street		Split Layers Analyzed: 0	Date Reported: Apr-27-18
Emeryville, CA 94608		Job Site / No. Nike Missile Site - Guard Shack, 2892 Fairmont Dr.	
R1187351			
SAMPLE ID	ASBESTOS TYPE	OTHER DATA	DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD LAB
X-4B	None Detected	1) 1-5% Fiberglass 2) 95-99% Tar, Opq	Roof system - Tart & gravel. Guard shack - 8'x5'
Lab ID # 1434-03376-011		3) Apr-19-18 4) Apr-27-18	Roofing Felt/Tar-Black
X-4C	None Detected	1) 1-5% Fiberglass 2) 95-99% Tar, Opq	Roof system - Tart & gravel. Guard shack - 8'x5'
Lab ID # 1434-03376-012		3) Apr-19-18 4) Apr-27-18	Roofing Felt/Tar-Black
X-5A	5-10% Chrysotile	1) None Detected 2) 90-95% Tar	Roof patch - Grey. Guard shack throughout 20sf.
Lab ID # 1434-03376-013		3) Apr-19-18 4) Apr-27-18	Roof Mastic-Black/Grey
X-5B	5-10% Chrysotile	1) None Detected 2) 90-95% Tar	Roof patch - Grey. Guard shack throughout 20sf.
Lab ID # 1434-03376-014		3) Apr-19-18 4) Apr-27-18	Roof Mastic-Black/Grey
X-5C	5-10% Chrysotile	1) None Detected 2) 90-95% Tar	Roof patch - Grey. Guard shack throughout 20sf.
Lab ID # 1434-03376-015		3) Apr-19-18 4) Apr-27-18	Roof Mastic-Black/Grey
X-6A	None Detected	1) None Detected 2) 99-100% Qtz, Calc, Opq	Concrete slab. Guard shack - N.E corner of slab
Lab ID # 1434-03376-016		3) Apr-19-18 4) Apr-27-18	Concrete-Grey
X-6B	None Detected	1) None Detected 2) 99-100% Qtz, Calc, Opq	Concrete slab. Guard shack - N.W corner of slab
Lab ID # 1434-03376-017		3) Apr-19-18 4) Apr-27-18	Concrete-Grey
X-6C	None Detected	1) None Detected 2) 99-100% Qtz, Calc, Opq	Concrete slab. Guard shack - Door threshold
Lab ID # 1434-03376-018		3) Apr-19-18 4) Apr-27-18	Concrete-Grey
X-7A	None Detected	1) None Detected 2) 99-100% Qtz, Calc, Opq	
Lab ID # 1434-03376-019		3) Apr-19-18 4) Apr-27-18	Concrete-Grey
X-7B	None Detected	1) None Detected 2) 99-100% Qtz, Calc, Opq	
Lab ID # 1434-03376-020		3) Apr-19-18 4) Apr-27-18	Concrete-Grey

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst 

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POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

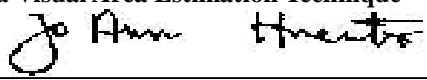
EPA Method 600/R-93/116 or 600/M4-82-020

Page: **3** of

Contact: W. Frieszell Address: Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608	Samples Indicated: 21 Reg. Samples Analyzed: 21 Split Layers Analyzed: 0 Job Site / No. Nike Missile Site - Guard Shack, 2892 Fairmont Dr. R1187351	Report No. 357345 Date Submitted: Apr-20-18 Date Reported: Apr-27-18
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SAMPLE ID	% ASBESTOS TYPE	OTHER DATA		DESCRIPTION FIELD LAB
		1) Non-Asbestos Fibers	2) Matrix Materials	
		3) Date/Time Collected	4) Date Analyzed	
X-7C	None Detected	1) None Detected		
Lab ID # 1434-03376-021		2) 99-100% Qtz, Calc, Opq		
		3) Apr-19-18	4) Apr-27-18	Concrete-Grey
Lab ID #		1)		
		2)		
Lab ID #		3)	4)	
		1)		
Lab ID #		2)		
		3)	4)	
Lab ID #		1)		
		2)		
Lab ID #		3)	4)	
		1)		
Lab ID #		2)		
		3)	4)	
Lab ID #		1)		
		2)		
Lab ID #		3)	4)	
		1)		
Lab ID #		2)		
		3)	4)	
Lab ID #		1)		
		2)		
Lab ID #		3)	4)	

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst 

ASBESTOS TEM LABORATORIES, INC.
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With Offices in Reno, NV (775) 359-3377

357345

Terracon

***E-MAIL REPORT TO:

SEE BELOW PROJECT MANAGER (PM)***

ADDITIONAL RECIPIENTS

☐ denise.wallace@terracon.com ☐ eric.dyer@terracon.com☐ PM - S. Steiner
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kmschroeter@terracon.com☐ PM - K. Pilgrim
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ACM BULK SAMPLE DATA SHEET

- ☒ PLM Analysis (Analyze all samples)
☐ Stop Analysis at First Positive
☐ Point Count Analysis (400-point)

PAGE ___ OF ___

Project Name/ Address/ Building No. Nike Missile Site - Guard Shack, 2892 Fairmont Pl., San Diego, CAProject# R1187351 Sampled By: R. G. I. G. M. Sampling Date: 4/19/18Sample(s) sent to: ☐ MAL ☐ AERO ☐ EMLAB ☐ OtherTAT ☐ Rush ☐ 24HRS ☐ 48HR ☒ 3-5 days

HM#	Material Description	Sample Location & Material Location	Quantity:
X - 1A	1'x1' Ceiling tile - (no glue) styled	Guard Shack Ceiling	8x5'
L - 1B		L	
L - 1C		L	
HM#	Material Description:	Sample Location & Material Location	Quantity:
X - 2A	Drywall (no joint or texture)	Guard Shack East wall	
L - 2B		L	
L - 2C		L	
HM#	Material Description:	Sample Location & Material Location	Quantity:
X - 3A	Window Sill	Guard Shack - North window	
X - 3B		L	
X - 3C		L	
HM#	Material Description:	Sample Location & Material Location	Quantity:
X - 4A	Roof System - FAKT Gravel	Guard Shack	8x5'
X - 4B		L	
X - 4C		L	
HM#	Material Description:	Sample Location & Material Location	Quantity:
X - 5A	Roof Patch - Grey	Guard Shack throughout	20 SF
X - 5B		L	
X - 5C		L	

Relinquished By:

Received By:

Relinquished By:

Received By:

Signature:

Signature:

Signature:

Signature:

Date/Time:

Date/Time:

Date/Time:

Date/Time:

1466 66th Street Emeryville CA 94608 Tel: (510) 547-7771 Fax: (510) 547-1983

Updated 02.23.2018

***E-MAIL REPORT TO:
SEE BELOW PROJECT MANAGER (PM)***

ADDITIONAL RECIPIENTS

☐ denise.wallon@terracon.com ☐ eric.dyer@terracon.com
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ACM BULK SAMPLE DATA SHEET

☒ PLM Analysis (Analyze all samples)
☐ Stop Analysis at First Positive
☐ Point Count Analysis (400-point)

PAGE ___ OF ___

Project Name/ Address/ Building No. Nike Missile - Guard Shack, 2892 Fairmont Dr. San Diego, CA

Project# R1187351 Sampled By: R. Caldwell Sampling Date: 4/19/18

Sample(s) sent to: ☐ MAL ☐ AERO ☐ EMLAB ☐ Other

TAT ☐ Rush ☐ 24HRS ☐ 48HR ☒ 5 days

HM#	Material Description	Quantity:
Sample ID	Sample Location & Material Location	
X - 6A	Guard Shack - NE Corner of Slab	
I - 6B	I - NW Corner of Slab	
I - 6C	I - Door threshold	
HM#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	
X - 7A		
I - 7B		
I - 7C		
HM#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	
HM#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	
HM#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	

Relinquished By: Randy Caldwell Signature: [Signature] Date/Time: 4/19/18
Received By: _____ Signature: _____ Date/Time: _____
Relinquished By: _____ Signature: _____ Date/Time: _____
Received By: _____ Signature: _____ Date/Time: _____



Report for:

Mr. Steffen Steiner
RGA Environmental, Inc.
1466 66th Street
Emeryville, CA 94608

Regarding: Project: R1177B67; Nike Missile Base/San Leandro, CA /Building 1
EML ID: 1813331

Approved by:

Dates of Analysis:
Asbestos PLM: 10-16-2017

Approved Signatory
Renee Luna-Trepczynski

Service SOPs: Asbestos PLM (EPA Methods 600/R-93/116 & 600/M4-82-020, SOP EM-AS-S-1267)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: RGA Environmental, Inc.
 C/O: Mr. Steffen Steiner
 Re: R1177B67; Nike Missile Base/San Leandro, CA /
 Building 1

Date of Sampling: 10-11-2017
 Date of Receipt: 10-13-2017
 Date of Report: 10-16-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Total Samples Submitted: 9

Total Samples Analyzed: 9

Total Samples with Layer Asbestos Content > 1%: 2

Location: Nike-1-01A, Tar And Gravel Roofing; Building 1 West Side Roof Field

Lab ID-Version‡: 8488474-1

Sample Layers	Asbestos Content
Multicolored Rock	ND
Black Roofing Tar	ND
Black Roofing Tar and Felt	ND
Composite Non-Asbestos Content:	5% Cellulose < 1% Synthetic Fibers
Sample Composite Homogeneity:	Poor

Location: Nike-1-01B, Tar And Gravel Roofing; Building 1 North Side Roof Field

Lab ID-Version‡: 8488475-1

Sample Layers	Asbestos Content
Multicolored Rock	ND
Black Roofing Tar	ND
Black Roofing Tar and Felt	ND
Composite Non-Asbestos Content:	5% Cellulose < 1% Synthetic Fibers
Sample Composite Homogeneity:	Poor

Location: Nike-1-01C, Tar And Gravel Roofing; Building 1 East Side Roof Field

Lab ID-Version‡: 8488476-1

Sample Layers	Asbestos Content
Multicolored Rock	ND
Black Roofing Tar	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	5% Cellulose < 1% Synthetic Fibers
Sample Composite Homogeneity:	Poor

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: RGA Environmental, Inc.
 C/O: Mr. Steffen Steiner
 Re: R1177B67; Nike Missile Base/San Leandro, CA /
 Building 1

Date of Sampling: 10-11-2017
 Date of Receipt: 10-13-2017
 Date of Report: 10-16-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116**Location: Nike-1-02A, Green Rolled On Roofing; Building 1 Southwest At Roof Field**

Lab ID-Version‡: 8488477-1

Sample Layers	Asbestos Content
Black Roofing Tar and Felt with Green Pebbles	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Composite Non-Asbestos Content:	35% Cellulose < 1% Synthetic Fibers
Sample Composite Homogeneity:	Poor

Location: Nike-1-02B, Green Rolled On Roofing; Building 1 Southwest At Roof Field

Lab ID-Version‡: 8488478-1

Sample Layers	Asbestos Content
Black Roofing Tar and Felt with Green Pebbles	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Composite Non-Asbestos Content:	35% Cellulose < 1% Synthetic Fibers
Sample Composite Homogeneity:	Poor

Location: Nike-1-03A, Black Rolled On Roofing; Building 1 South Side Roof Field

Lab ID-Version‡: 8488479-1

Sample Layers	Asbestos Content
Black Roofing Tar	ND
Black Roofing Tar and Felt with Grey Pebbles	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Poor

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Client: RGA Environmental, Inc.
 C/O: Mr. Steffen Steiner
 Re: R1177B67; Nike Missile Base/San Leandro, CA /
 Building 1

Date of Sampling: 10-11-2017
 Date of Receipt: 10-13-2017
 Date of Report: 10-16-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116**Location: Nike-1-03B, Black Rolled On Roofing;Building 1 South Side Roof Field**

Lab ID-Version‡: 8488480-1

Sample Layers	Asbestos Content
Black Roofing Tar and Felt with Grey Pebbles	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: Nike-1-04A, Gray/Silver Roof Patching;Building 1 East Side Roof Penetration

Lab ID-Version‡: 8488481-1

Sample Layers	Asbestos Content
Gray/Black Roofing Mastic	10% Chrysotile
Black Roofing Tar and Felt	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Poor

Location: Nike-1-04B, Gray/Silver Roof Patching;Building 1 South Side Roof

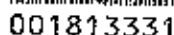
Lab ID-Version‡: 8488482-1

Sample Layers	Asbestos Content
Gray/Black Roofing Mastic	5% Chrysotile
Black Roofing Tar and Felt	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Poor

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ACM BULK SAMPLE DATA SHEET

☒ PLM Analysis (Analyze all samples)
☐ Stop Analysis at First Positive,
☐ Point Count Analysis (400-point)

PAGE 7 OF 11

TAT ☐ Rush ☐ 24HRS ☒ 48HR ☐ 3-5 days

Date/Time:



Report for:

Mr. Steffen Steiner
RGA Environmental, Inc.
1466 66th Street
Emeryville, CA 94608

Regarding: Project: R1177B67; Nike Missile Base/San Leandro, CA /Building 2
EML ID: 1813343

Approved by:

Dates of Analysis:
Asbestos PLM: 10-16-2017

Approved Signatory
Renee Luna-Trepczynski

Service SOPs: Asbestos PLM (EPA Methods 600/R-93/116 & 600/M4-82-020, SOP EM-AS-S-1267)

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Client: RGA Environmental, Inc.
 C/O: Mr. Steffen Steiner
 Re: R1177B67; Nike Missile Base/San Leandro, CA /
 Building 2

Date of Sampling: 10-11-2017
 Date of Receipt: 10-13-2017
 Date of Report: 10-16-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116
Total Samples Submitted: 9
Total Samples Analyzed: 9
Total Samples with Layer Asbestos Content > 1%: 4
Location: Nike-2-01A, Tar And Gravel Roofing; Building 2 Upper Roof Field

Lab ID-Version‡: 8488525-1

Sample Layers	Asbestos Content
Multicolored Rock	ND
Yellow Fibrous Material	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Composite Non-Asbestos Content:	40% Cellulose 3% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: Nike-2-01B, Tar And Gravel Roofing; Building 2 Lower Roof Field

Lab ID-Version‡: 8488526-1

Sample Layers	Asbestos Content
Multicolored Rock	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	50% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Poor

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Client: RGA Environmental, Inc.
C/O: Mr. Steffen Steiner
Re: R1177B67; Nike Missile Base/San Leandro, CA /
Building 2

Date of Sampling: 10-11-2017
Date of Receipt: 10-13-2017
Date of Report: 10-16-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116**Location: Nike-2-01C, Tar And Gravel Roofing; Building 2 Lower Roof Field**

Lab ID-Version‡: 8488527-1

Sample Layers	Asbestos Content
Multicolored Rock with Black Roofing Tar	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	65% Cellulose
Sample Composite Homogeneity:	Poor

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Client: RGA Environmental, Inc.
C/O: Mr. Steffen Steiner
Re: R1177B67; Nike Missile Base/San Leandro, CA /
Building 2

Date of Sampling: 10-11-2017
Date of Receipt: 10-13-2017
Date of Report: 10-16-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: Nike-2-02A, Gray/Silver Roof Patching; Building 2 Lower Roof West Side Perimeter

Lab ID-Version‡: 8488528-1

Sample Layers	Asbestos Content
Gray/Black Roofing Mastic	10% Chrysotile
Dark Brown Fibrous Material	ND
Composite Non-Asbestos Content:	5% Cellulose
Sample Composite Homogeneity:	Moderate

Location: Nike-2-02B, Gray/Silver Roof Patching; Building 2 Lower Roof South Side

Lab ID-Version‡: 8488529-1

Sample Layers	Asbestos Content
Gray/Black Roofing Mastic	10% Chrysotile
Composite Non-Asbestos Content:	< 1% Cellulose
Sample Composite Homogeneity:	Moderate

Location: Nike-2-03A, Roof Flashing; Building 2 Lower Roof East Side

Lab ID-Version‡: 8488530-1

Sample Layers	Asbestos Content
Black Roof Flashing	15% Chrysotile
Composite Non-Asbestos Content:	< 1% Cellulose
Sample Composite Homogeneity:	Moderate

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Client: RGA Environmental, Inc.
 C/O: Mr. Steffen Steiner
 Re: R1177B67; Nike Missile Base/San Leandro, CA /
 Building 2

Date of Sampling: 10-11-2017
 Date of Receipt: 10-13-2017
 Date of Report: 10-16-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116**Location: Nike-2-03B, Roof Flashing; Building 2 Lower Roof East Side**

Lab ID-Version‡: 8488531-1

Sample Layers	Asbestos Content
Black Roof Flashing	15% Chrysotile
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Composite Non-Asbestos Content:	30% Cellulose
Sample Composite Homogeneity:	Poor

Location: Nike-2-04A, Black Asphaltic Roof Patch On Fiberboard; Building 2 Lower Roof South Side Field

Lab ID-Version‡: 8488532-1

Sample Layers	Asbestos Content
Black Roofing Tar	ND
Black Roofing Felt	ND
Black Roofing Tar	ND
Black Roofing Felt	ND
Black Roofing Tar	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	35% Cellulose
Sample Composite Homogeneity:	Poor

Location: Nike-2-04B, Black Asphaltic Roof Patch On Fiberboard; Building 2 Lower Roof South Side Field

Lab ID-Version‡: 8488533-1

Sample Layers	Asbestos Content
Black Roofing Tar	ND
Black Roofing Felt	ND
Black Roofing Tar	ND
Black Roofing Felt	ND
Black Roofing Tar	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	50% Cellulose
Sample Composite Homogeneity:	Poor

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001813343

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ACM BULK SAMPLE DATA SHEET

☒ PLM Analysis (Analyze all samples)
☐ Stop Analysis at First Positive
☐ Point Count Analysis (400-point)

PAGE 1 OF 1

Project Name/ Address/ Building No. NiKe Missile Base/San Leandro, CA/ Building 2Project# R1177867 Sampled By: J. Alexander Sampling Date: 10/11/17Sample(s) sent to: ☐ MAL ☐ AERO ☒ EMLAB ☐ OtherTAT ☐ Rush ☐ 24HRS ☒ 48HR ☐ 3-5 days

HM#	Material Description	Sample Location & Material Location	Quantity:
NiKe-2-01	Tar and Gravel Roofing		
NiKe-2-01A	Building 2 Upper Roof Field		2,000 square feet
NiKe-2-01B	Building 2 Lower Roof Field		
NiKe-2-01C	Building 2 Lower Roof Field		
HM#	Material Description:	Sample Location & Material Location	Quantity:
NiKe-2-02	Gray Roof Patching		
NiKe-2-02A	Building 2 Lower Roof South Side Perimeter		70 square feet
NiKe-2-02B	Building 2 Lower Roof South Side		
HM#	Material Description:	Sample Location & Material Location	Quantity:
NiKe-2-03	Roof Flashing		
NiKe-2-03A	Building 2 Lower Roof East Side		30 square feet
NiKe-2-03B	Building 2 Lower Roof East Side		
HM#	Material Description:	Sample Location & Material Location	Quantity:
NiKe-2-04	Black Asphaltic Roof Patch on Fiberboard		
NiKe-2-04A	Building 2 Lower Roof South Side Field		25 square feet
NiKe-2-04B	Building 2 Lower Roof South Side Field		
HM#	Material Description:	Sample Location & Material Location	Quantity:

Relinquished By:

Received By:

Relinquished By:

Received By:

Signature:

Signature:

Signature:

Signature:

Date/Time:

Date/Time:

Date/Time:

Date/Time:



Report for:

Mr. Steffen Steiner
RGA Environmental, Inc.
1466 66th Street
Emeryville, CA 94608

Regarding: Project: R1177B67; Nike Missile Base/San Leandro, CA /Building 3
EML ID: 1813354

Approved by:

Dates of Analysis:
Asbestos PLM: 10-16-2017

Approved Signatory
Renee Luna-Trepczynski

Service SOPs: Asbestos PLM (EPA Methods 600/R-93/116 & 600/M4-82-020, SOP EM-AS-S-1267)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

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Client: RGA Environmental, Inc.
 C/O: Mr. Steffen Steiner
 Re: R1177B67; Nike Missile Base/San Leandro, CA /
 Building 3

Date of Sampling: 10-12-2017
 Date of Receipt: 10-13-2017
 Date of Report: 10-16-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Total Samples Submitted: 5

Total Samples Analyzed: 5

Total Samples with Layer Asbestos Content > 1%: 2

Location: Nike-3-01A, Tar And Gravel Roofing; Building 3 North Side Roof Field

Lab ID-Version‡: 8488653-1

Sample Layers	Asbestos Content
Multicolored Rock	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	10% Cellulose 7% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: Nike-3-01B, Tar And Gravel Roofing; Building 3 West Side Roof Field

Lab ID-Version‡: 8488654-1

Sample Layers	Asbestos Content
Multicolored Rock	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	10% Cellulose 7% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: Nike-3-01C, Tar And Gravel Roofing; Building 3 South Side Roof Field

Lab ID-Version‡: 8488655-1

Sample Layers	Asbestos Content
Multicolored Rock	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	10% Cellulose 7% Glass Fibers
Sample Composite Homogeneity:	Poor

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: RGA Environmental, Inc.
C/O: Mr. Steffen Steiner
Re: R1177B67; Nike Missile Base/San Leandro, CA /
Building 3

Date of Sampling: 10-12-2017
Date of Receipt: 10-13-2017
Date of Report: 10-16-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116**Location: Nike-3-02A, Silver Penetration Mastic; Building 3 Southeast Penetration**

Lab ID-Version‡: 8488656-1

Sample Layers	Asbestos Content
Gray/Black Roofing Mastic	2% Chrysotile
Composite Non-Asbestos Content:	3% Wollastonite 2% Cellulose
Sample Composite Homogeneity:	Good

Location: Nike-3-02B, Silver Penetration Mastic; Building 3 Southeast Penetration

Lab ID-Version‡: 8488657-1

Sample Layers	Asbestos Content
Gray/Black Roofing Mastic	2% Chrysotile
Composite Non-Asbestos Content:	3% Wollastonite 2% Cellulose
Sample Composite Homogeneity:	Good

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



001813354

terracon

☒ PM - S. Steiner
 ssteiner@terracon.com
☐ PM - K. Schroeter
 kmschroeter@terracon.com
☐ PM - K. Piggm
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 mbenefield@terracon.com
☐ PM - T. Kattchee
 tkattchee@terracon.com
☐ PM - W. Frieszell
 wfrieszell@terracon.com
☐ PM D. Ufferlge
 dufferlge@terracon.com

ACMI BULK SAMPLE DATA SHEET

☒ PLM Analysis (Analyze all samples)
☐ Stop Analysis at First Positive
☐ Point Count Analysis (400-point)

PAGE 1 OF 1

Project Name/ Address/ Building No. Nike Missile Base/ San Leandro, CA / Building 3
 Project# R177867 Sampled By: J. Alexander Sampling Date: 10/12/17
 Sample(s) sent to: ☐ MAL ☐ AFRO ☒ EMLAB ☐ Other
 TAT ☐ Rush ☐ 24HRS ☒ 48HR ☐ 3-5 days

HM#	Material Description	Sample ID	Sample Location & Material Location	Quantity:
Nike-3-01	Tar and Gravel Roofing	Nike-3-01A	Building 3 North Side Roof Field	600 square feet
Nike-3-01B		Nike-3-01B	Building 3 West Side Roof Field	
Nike-3-01C		Nike-3-01C	Building 3 South Side Roof Field	
HM#	Material Description:	Sample ID	Sample Location & Material Location	Quantity:
Nike-3-02A	Silver Penetration Mortar	Nike-3-02A	Building 3 Southeast Penetration	3 square feet
Nike-3-02B		Nike-3-02B	Building 3 Southeast Penetration	
HM#	Material Description:	Sample ID	Sample Location & Material Location	Quantity:
HM#	Material Description:	Sample ID	Sample Location & Material Location	Quantity:
HM#	Material Description:	Sample ID	Sample Location & Material Location	Quantity:
HM#	Material Description:	Sample ID	Sample Location & Material Location	Quantity:

Relinquished By:

Received By:

Relinquished By:

Received By:

Signature:

Signature:

Signature:

Signature:

Date/Time:

Date/Time:

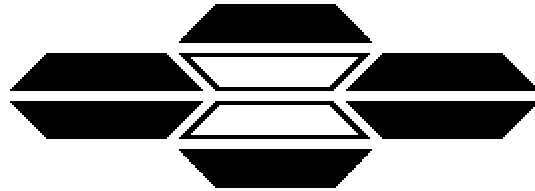
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Date/Time:



Appendix 2:

Laboratory Results and Chains of Custody - Lead



ASBESTOS TEM LABORATORIES, INC.

ATEM SOP-AA-01
(EPA 3050B/EPA 7420)

Lead Paint Analysis Report

Laboratory Job # 357349

600 Bancroft Way, Ste. A
Berkeley, CA 94710
(510) 704-8930
FAX (510) 704-8429



ASBESTOS TEM LABORATORIES, INC



Apr/26/2018

W. Frieszell
Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

RE: LABORATORY JOB # 357349

Atomic Absorption Spectroscopy analytical results for 5 paint sample(s).

Job Site: Nike Missile Site Bldg B, 2892 Fairmont Dr., San Leandro

Job No.: R1187351

Enclosed please find results for the atomic absorption spectroscopy (AA) metals analysis of one or more paint samples. Sample preparation and analysis procedures were performed according to ATEM SOP-AA-01 (EPA 3050B / EPA 7420).

Prior to analysis, samples are checked for damage and disruption of the chain-of-custody seal. Samples are then logged-in, each given a unique laboratory number, and a hard copy containing all pertinent information is generated. This, and all other relevant paper work are kept with each sample throughout the analytical procedures to assure proper analysis.

A portion of each sample is weighed out such that an aliquot of ~0.2 grams is obtained. The weighed sample material is then placed into a digestion vessel, transferred to a fume hood, heated at ~95 Deg. C, refluxed with nitric acid to solubilize the contained metals, and treated with hydrogen peroxide to oxidize any organic binder present in the sample material. High purity water is added to make a 50 ml volume for each sample.

AA analysis is performed on a microprocessor controlled Perkin Elmer AAnalyst 300 atomic absorption spectrophotometer, operating in the flame mode. Samples are diluted as needed to allow reading of concentrations in the calibration range. QC analyses are prepared and performed along with each sample batch to ensure accurate analytical determinations. Data is compiled into a standard report format and subjected to a thorough quality assurance check before the information is released to the client. Note: Sample results are not corrected for contamination based on the field blank(s) or other analytical blank(s).

Sincerely Yours,

ASBESTOS TEM LABORATORIES, INC.

--- Results for routine quality control samples run in parallel to the samples reported here were within acceptable limits. These results relate only to the sample(s) tested and must not be reproduced, except in full, with the approval of the laboratory. ---

ATOMIC ABSORPTION SPECTROSCOPY LEAD PAINT ANALYSIS REPORT ATEM SOP-AA-01 (EPA 3050B / EPA 7000B)

Page: **3** of **3**

Contact: W. Frieszell Address: Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608		Samples Submitted: 5 Samples Analyzed: 5 Job Site / No. Nike Missile Site Bldg B, 2892 Fairmont R1187351		Report No.: 357349 Date Submitted: Apr-19-18 Date Reported: Apr-26-18	
--	--	--	--	--	--

SAMPLE ID	METAL	SAMPLE RESULT	REPORTING LIMIT	LOCATION / DESCRIPTION
B-Pb-1 Lab ID # 1434-03380-001	Pb	12000 mg/kg 1.200 %	41 mg/kg 0.004 %	Grey. CMU. Exterior wall. Bldg B(3) South wall <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> Apr-19-18 Apr-26-18 0.2413
B-Pb-2 Lab ID # 1434-03380-002	Pb	4500 mg/kg 0.450 %	42 mg/kg 0.004 %	Green. Metal. Exterior metal wall. Bldg B (3) - Addition north wall. <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> Apr-19-18 Apr-26-18 0.2369
B-Pb-3 Lab ID # 1434-03380-003	Pb	140 mg/kg 0.014 %	37 mg/kg 0.004 %	Window caulk. Door window caulk. Bldg B (3) - West door - Window <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> Apr-19-18 Apr-26-18 0.2672
B-Pb-4 Lab ID # 1434-03380-004	Pb	23000 mg/kg 2.300 %	44 mg/kg 0.004 %	Tan. Metal. Pole. Bldg 3 <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> Apr-19-18 Apr-26-18 0.2252
B-Pb-5 Lab ID # 1434-03380-005	Pb	6100 mg/kg 0.610 %	49 mg/kg 0.005 %	Green. CMU. Wall. Bldg 3 Interior wall <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> Apr-19-18 Apr-26-18 0.204
				<u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u>
				<u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u>
				<u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u>
				<u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u>
				<u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u>

Analytical results posted above relate only to the material(s) tested.
 The sample has not been blank corrected.

µg - micrograms 1% = 10,000 ppm 1ppm = 1 mg/Kg

Lab QC Reviewer Jo Ann Huerto
 Jo Ann Huerto

Analyst Jie Zhang
 Jie Zhang

B-3 12.2
12.1

B 3

357349
Terracon

E-MAIL REPORT TO: SEE BELOW PROJECT MANAGER (PM) ***ADDITIONAL RECIPIENTS*** <input type="checkbox"/> denise.wallen@terracon.com <input type="checkbox"/> eric.dyer@terracon.com		LEAD PAINT SAMPLE DATA SHEET * Lead Analysis <input checked="" type="checkbox"/> Flame AA (EPA 7420) <input type="checkbox"/> TTLC PAGE <u>1</u> OF <u>1</u>	
<input type="checkbox"/> PM - S. Steiner ssteiner@terracon.com	<input type="checkbox"/> PM - K. Schroeter kmschroeter@terracon.com	<input checked="" type="checkbox"/> PM - W. Frieszell wfrieszell@terracon.com	<input type="checkbox"/> PM - T. Kattchee tkattchee@terracon.com
<input type="checkbox"/> PM - K. Pilgrim kpilgrim@terracon.com	<input type="checkbox"/> PM - M. Benefield mbenefield@terracon.com		

Project Name/ Address/ Building No. Nike Missile Bldg B, 2892 Fairmont Dr., San Leandro CA
 Project# R1187351 Sampled By: R. Caldwell Sampling Date: 4/19/18
 Sample(s) sent to: ☐ MAL ☐ EMSL ☐ Aerobiology ☐ Quantem Other TKM
 TAT ☐ Rush ☐ 24HRS ☐ 48HRS ☒ 5 Day

Sample ID	Paint Description and Sample Location			Condition (I/F/P)
B-1 Ph-1	Paint Color: <u>Grey</u>	Substrate: <u>CMU</u>	Component: <u>Exterior Wall</u>	
	Sample Location: Bldg # <u>Bldg B(3)</u>	Unit # <u>South Wall</u>	Room	
B-2 Ph-2	Paint Color: <u>Green</u>	Substrate: <u>Metal</u>	Component: <u>Exterior Metal Wall</u>	
	Sample Location: Bldg # <u>Bldg B(3)</u>	Unit # <u>Addition North Wall</u>	Room	
B-3 Ph-3	Paint Color: <u>Window Caulk</u>	Substrate: <u>Window Caulk</u>	Component: <u>Door Window Caulk</u>	
	Sample Location: Bldg # <u>Bldg B(3)</u>	Unit # <u>West Door Window</u>	Room	
B-4 Ph-4	Paint Color: <u>Tan</u>	Substrate: <u>Metal</u>	Component: <u>Pole</u>	
	Sample Location: Bldg # <u>Bldg 3</u>	Unit #	Room	
B-5 Ph-5	Paint Color: <u>Green</u>	Substrate: <u>CMU</u>	Component: <u>Wall</u>	
	Sample Location: Bldg # <u>Bldg 3</u>	Unit # <u>Interior Wall</u>	Room	

Relinquished By:

Randy Caldwell
Gabriela

Signature:

[Signature]

Date/Time:

4/19/18

Received By:

Signature:

Date/Time:

Received By:

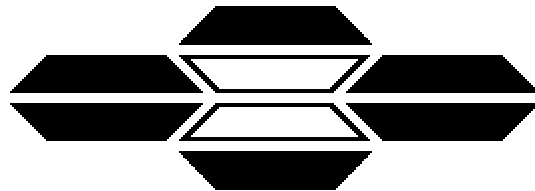
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Date/Time:

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-4



ASBESTOS TEM LABORATORIES, INC.

ATEM SOP-AA-01
(EPA 3050B/EPA 7420)

Lead Paint Analysis Report

Laboratory Job # 357347

600 Bancroft Way, Ste. A
Berkeley, CA 94710
(510) 704-8930
FAX (510) 704-8429



ASBESTOS TEM LABORATORIES, INC



Apr/26/2018

W. Frieszell
Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

RE: LABORATORY JOB # 357347

Atomic Absorption Spectroscopy analytical results for 5 paint sample(s).

Job Site: Nike Missile Site, Bldg C, 1289 Fairmont Dr., San Leandro

Job No.: R1187351

Enclosed please find results for the atomic absorption spectroscopy (AA) metals analysis of one or more paint samples. Sample preparation and analysis procedures were performed according to ATEM SOP-AA-01 (EPA 3050B / EPA 7420).

Prior to analysis, samples are checked for damage and disruption of the chain-of-custody seal. Samples are then logged-in, each given a unique laboratory number, and a hard copy containing all pertinent information is generated. This, and all other relevant paper work are kept with each sample throughout the analytical procedures to assure proper analysis.

A portion of each sample is weighed out such that an aliquot of ~0.2 grams is obtained. The weighed sample material is then placed into a digestion vessel, transferred to a fume hood, heated at ~95 Deg. C, refluxed with nitric acid to solubilize the contained metals, and treated with hydrogen peroxide to oxidize any organic binder present in the sample material. High purity water is added to make a 50 ml volume for each sample.

AA analysis is performed on a microprocessor controlled Perkin Elmer AAnalyst 300 atomic absorption spectrophotometer, operating in the flame mode. Samples are diluted as needed to allow reading of concentrations in the calibration range. QC analyses are prepared and performed along with each sample batch to ensure accurate analytical determinations. Data is compiled into a standard report format and subjected to a thorough quality assurance check before the information is released to the client. Note: Sample results are not corrected for contamination based on the field blank(s) or other analytical blank(s).

Sincerely Yours,

ASBESTOS TEM LABORATORIES, INC.

--- Results for routine quality control samples run in parallel to the samples reported here were within acceptable limits. These results relate only to the sample(s) tested and must not be reproduced, except in full, with the approval of the laboratory. ---

ATOMIC ABSORPTION SPECTROSCOPY LEAD PAINT ANALYSIS REPORT ATEM SOP-AA-01 (EPA 3050B / EPA 7000B)

Page: **3** of **3**

Contact: W. Frieszell		Samples Submitted: 5		Report No.: 357347	
Address: Terracon Consultants, Inc.		Samples Analyzed: 5		Date Submitted: Apr-19-18	
1466 66th Street		Job Site / No.		Date Reported: Apr-26-17	
Emeryville, CA 94608		Nike Missile Site, Bldg C, 1289			
		R1187351			
SAMPLE ID	METAL	SAMPLE RESULT	REPORTING LIMIT	LOCATION / DESCRIPTION	
C-Pb-1 Lab ID # 1434-03378-001	Pb	4100 mg/kg 0.410 %	44 mg/kg 0.004 %	Green. CMU. Exterior. Exterior west. <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> Apr-19-18 Apr-26-18 0.2255	
C-Pb-2 Lab ID # 1434-03378-002	Pb	1100 mg/kg 0.110 %	47 mg/kg 0.005 %	Green. CMU. Interior - west - North office. <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> Apr-19-18 Apr-26-18 0.2119	
C-Pb-3 Lab ID # 1434-03378-003	Pb	1600 mg/kg 0.160 %	49 mg/kg 0.005 %	Red. Concrete. Floor. Lounge room <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> Apr-19-18 Apr-26-18 0.2046	
C-Pb-4 Lab ID # 1434-03378-004	Pb	4100 mg/kg 0.410 %	44 mg/kg 0.004 %	Glazing. Metal. Window. North hinge. <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> Apr-19-18 Apr-26-18 0.227	
C-Pb-5 Lab ID # 1434-03378-005	Pb	21000 mg/kg 2.100 %	47 mg/kg 0.005 %	Yellow. Metal. Metal plates. Floor trench. <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> Apr-19-18 Apr-26-18 0.2146	
Lab ID #				<u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u>	
Lab ID #				<u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u>	
Lab ID #				<u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u>	
Lab ID #				<u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u>	
Lab ID #				<u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u>	

Analytical results posted above relate only to the material(s) tested.
The sample has not been blank corrected.

µg - micrograms 1% = 10,000 ppm 1ppm = 1 mg/Kg

Lab QC Reviewer Jo Ann Huerto
Jo Ann Huerto

Analyst Jie Zhang
Jie Zhang

357347

C 2 Terracon

E-MAIL REPORT TO: SEE BELOW PROJECT MANAGER (PM) ***ADDITIONAL RECIPIENTS***		LEAD PAINT SAMPLE DATA SHEET * Lead Analysis <input checked="" type="checkbox"/> Flame AA (EPA 7420) <input type="checkbox"/> TTLC	
<input type="checkbox"/> denise.wallen@terracon.com <input type="checkbox"/> eric.dyer@terracon.com		PAGE <u>1</u> OF <u> </u>	
<input type="checkbox"/> PM - S. Steiner ssteiner@terracon.com	<input type="checkbox"/> PM - K. Schroeder kmschroeder@terracon.com	<input checked="" type="checkbox"/> PM - W. Frieszell wfrieszell@terracon.com	<input type="checkbox"/> PM - T. Katchee tkatchee@terracon.com
<input type="checkbox"/> PM - K. Pilgrim kpilgrim@terracon.com		<input type="checkbox"/> PM - M. Benefield mbenefield@terracon.com	

Project Name/ Address/ Building No. Nike Missile Bldg C, 2892 Fairmont Dr., San Leandro, CA
 Project# R1187351 Sampled By: R. Caldwell Sampling Date: 4/19/18
 Sample(s) sent to: ☐ MAL ☐ EMSL ☐ Aerobiology ☐ Quantem Other _____
 TAT ☐ Rush ☐ 24HRS ☐ 48HRS ☒ 3-5 Day

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
Pb. C-1	Paint Color: <u>Green</u> Substrate: <u>Cmc</u> Component: <u>Exterior</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Exterior west</u>	
Pb. C-2	Paint Color: <u>Green</u> Substrate: <u>Cmc</u> Component: <u>Interior</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Interior - west-north side</u>	
Pb. C-3	Paint Color: <u>Red</u> Substrate: <u>Concrete</u> Component: <u>Floor</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Large Room</u>	
Pb. C-4	Paint Color: <u>Glazing</u> Substrate: <u>Metal</u> Component: <u>Window</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>North window</u>	
Pb. C-5	Paint Color: <u>Yellow</u> Substrate: <u>Metal</u> Component: <u>Metal plates</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Floor trench</u>	

Relinquished By:

Randy Caldwell
Abille

Signature:

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SM

Date/Time:

4/19/18
APR 19 18 4:23PM

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Date/Time:

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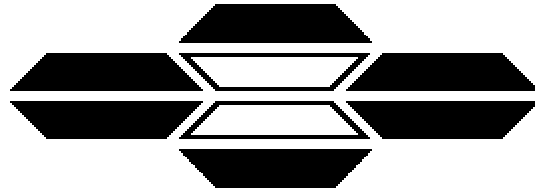
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ASBESTOS TEM LABORATORIES, INC.

ATEM SOP-AA-01
(EPA 3050B/EPA 7420)

Lead Paint Analysis Report

Laboratory Job # 357348

600 Bancroft Way, Ste. A
Berkeley, CA 94710
(510) 704-8930
FAX (510) 704-8429



ASBESTOS TEM LABORATORIES, INC



Apr/26/2018

W. Frieszell
Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

RE: LABORATORY JOB # 357348

Atomic Absorption Spectroscopy analytical results for 5 paint sample(s).

Job Site: Nike Missile Site Bldg D, 2892 Fairmont Dr., San Leandro

Job No.: R1187351

Enclosed please find results for the atomic absorption spectroscopy (AA) metals analysis of one or more paint samples. Sample preparation and analysis procedures were performed according to ATEM SOP-AA-01 (EPA 3050B / EPA 7420).

Prior to analysis, samples are checked for damage and disruption of the chain-of-custody seal. Samples are then logged-in, each given a unique laboratory number, and a hard copy containing all pertinent information is generated. This, and all other relevant paper work are kept with each sample throughout the analytical procedures to assure proper analysis.

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AA analysis is performed on a microprocessor controlled Perkin Elmer AAnalyst 300 atomic absorption spectrophotometer, operating in the flame mode. Samples are diluted as needed to allow reading of concentrations in the calibration range. QC analyses are prepared and performed along with each sample batch to ensure accurate analytical determinations. Data is compiled into a standard report format and subjected to a thorough quality assurance check before the information is released to the client. Note: Sample results are not corrected for contamination based on the field blank(s) or other analytical blank(s).

Sincerely Yours,

ASBESTOS TEM LABORATORIES, INC.

--- Results for routine quality control samples run in parallel to the samples reported here were within acceptable limits. These results relate only to the sample(s) tested and must not be reproduced, except in full, with the approval of the laboratory. ---

ATOMIC ABSORPTION SPECTROSCOPY LEAD PAINT ANALYSIS REPORT ATEM SOP-AA-01 (EPA 3050B / EPA 7000B)

Page: **3** of **3**


Contact: W. Frieszell Address: Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608		Samples Submitted: 5 Samples Analyzed: 5 Job Site / No. Nike Missile Site Bldg D, 2892 Fairmont R1187351		Report No.: 357348 Date Submitted: Apr-19-18 Date Reported: Apr-26-18	
--	--	--	--	--	--

SAMPLE ID	METAL	SAMPLE RESULT	REPORTING LIMIT	LOCATION / DESCRIPTION
D-Pb-1 Lab ID # 1434-03379-001	Pb	8200 mg/kg 0.820 %	45 mg/kg 0.005 %	Green. CMU. Wall. Exterior - East wall (throughout) <div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> Apr-19-18 <u>Analysis Date</u> Apr-26-18 <u>Analyzed Weight (g)</u> 0.2203 </div>
D-Pb-2 Lab ID # 1434-03379-002	Pb	7100 mg/kg 0.710 %	50 mg/kg 0.005 %	Light red. CMU. Wall. Interior - South room - East wall <div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> Apr-19-18 <u>Analysis Date</u> Apr-26-18 <u>Analyzed Weight (g)</u> 0.201 </div>
D-Pb-3 Lab ID # 1434-03379-003	Pb	1600 mg/kg 0.160 %	41 mg/kg 0.004 %	Green. CMU. Wall. Interior - North room - North wall <div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> Apr-19-18 <u>Analysis Date</u> Apr-26-18 <u>Analyzed Weight (g)</u> 0.2436 </div>
D-Pb-4 Lab ID # 1434-03379-004	Pb	8000 mg/kg 0.800 %	40 mg/kg 0.004 %	Peach. Drywall. Wall. Interior - West room - North wall <div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> Apr-19-18 <u>Analysis Date</u> Apr-26-18 <u>Analyzed Weight (g)</u> 0.2493 </div>
D-Pb-5 Lab ID # 1434-03379-005	Pb	4700 mg/kg 0.470 %	49 mg/kg 0.005 %	Caulk. Wood/Glass. Window. South room west wall. <div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> Apr-19-18 <u>Analysis Date</u> Apr-26-18 <u>Analyzed Weight (g)</u> 0.205 </div>
				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>
				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>
				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>
				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>
				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>

Analytical results posted above relate only to the material(s) tested.
The sample has not been blank corrected.

µg - micrograms 1% = 10,000 ppm 1ppm = 1 mg/Kg

Lab QC Reviewer 
Jo Ann Huerto

Analyst 
Jie Zhang

357348
D 1 Terracon

E-MAIL REPORT TO: SEE BELOW PROJECT MANAGER (PM) ***ADDITIONAL RECIPIENTS*** <input type="checkbox"/> denise.wall@terracon.com <input type="checkbox"/> eric.dyer@terracon.com		LEAD PAINT SAMPLE DATA SHEET * Lead Analysis <input checked="" type="checkbox"/> Plame AA (EPA 7420) <input type="checkbox"/> TTLC PAGE <u>1</u> OF <u>1</u>	
<input type="checkbox"/> PM - S. Steiner ssteiner@terracon.com	<input type="checkbox"/> PM - K. Schroeter kmschroeter@terracon.com	<input checked="" type="checkbox"/> PM - W. Frieszell wfrieszell@terracon.com	<input type="checkbox"/> PM - T. Kattchee tkattchee@terracon.com
		<input type="checkbox"/> PM - K. Pilgrim kpilgrim@terracon.com	<input type="checkbox"/> PM - M. Benefield msbenefield@terracon.com

Project Name/ Address/ Building No. Nike Missile Bldg D, 2892 Fairmont Dr., San Leandro, CA
 Project# R1187351 Sampled By: R. G. Allen Sampling Date: 4/19/18
 Sample(s) sent to: ☐ MAL ☐ EMSL ☐ Aerobiology ☐ Quantem Other TEA
 TAT ☐ Rush ☐ 24HRS ☐ 48HRS ☒ 4-5 Day

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
<u>P-1</u>	Paint Color: <u>Green</u> Substrate: <u>CMU</u> Component: <u>WALL</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>- Exterior East wall (throughout)</u>	
<u>P-2</u>	Paint Color: <u>Light Red</u> Substrate: <u>CMU</u> Component: <u>WALL</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>- Exterior Bay Area Interior - South Room - East wall</u>	
<u>P-3</u>	Paint Color: <u>Green</u> Substrate: <u>CMU</u> Component: <u>WALL</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Interior - North Room - West wall</u>	
<u>P-4</u>	Paint Color: <u>Peach</u> Substrate: <u>Pry wall</u> Component: <u>WALL</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Interior - West Room - North wall</u>	
<u>P-5</u>	Paint Color: <u>Caulk</u> Substrate: <u>wood/brick</u> Component: <u>Window</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>South Room West wall</u>	

Relinquished By:

Ramona Caldwell
Gabriela

Signature:

[Signature]
[Signature]

Date/Time:

4/19/18
APR 19 '18 4:20PM

Received By:

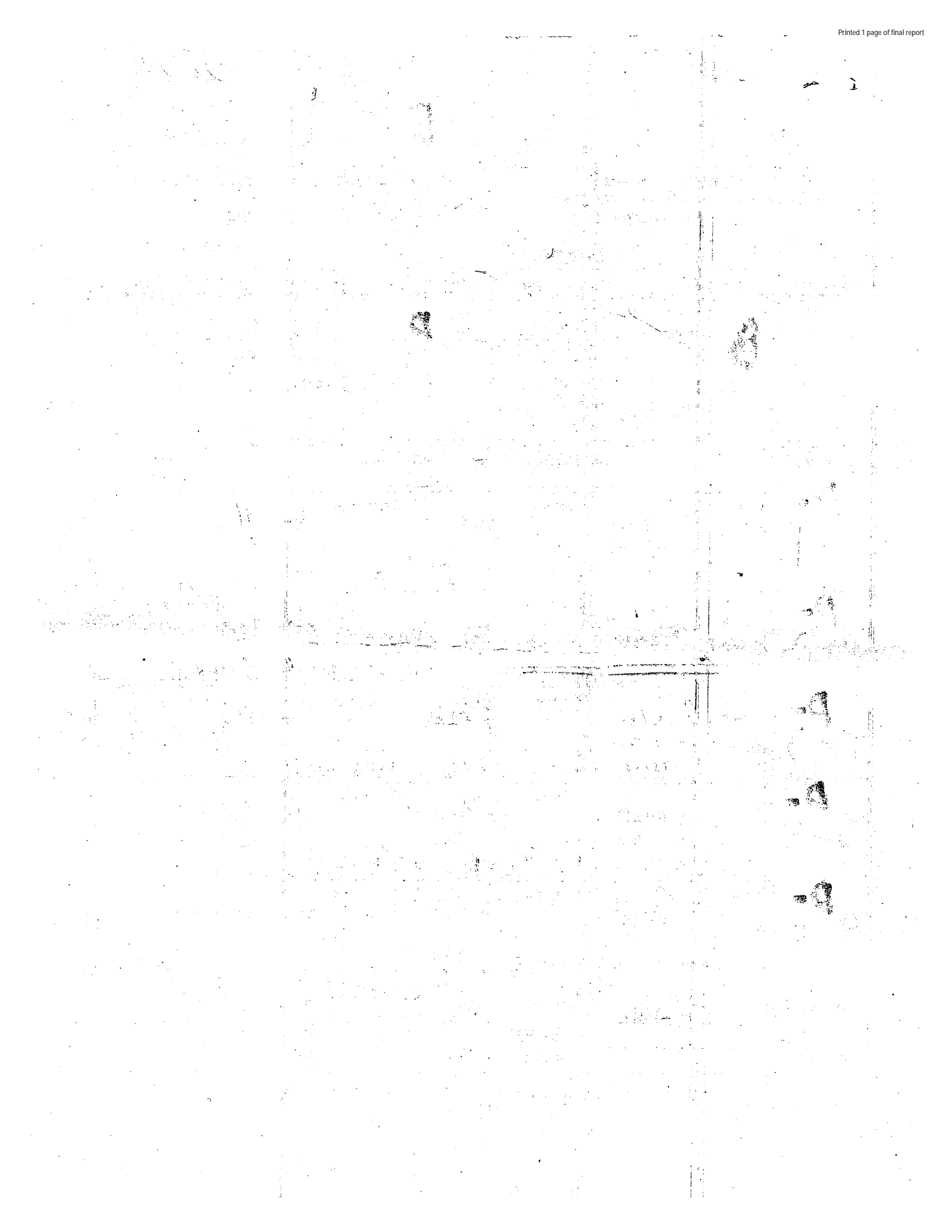
Signature:

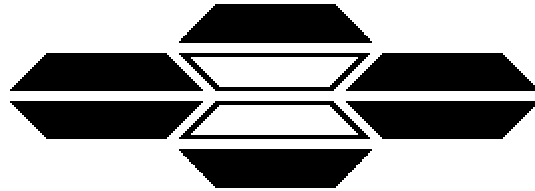
Date/Time:

Received By:

Signature:

Date/Time:





ASBESTOS TEM LABORATORIES, INC.

ATEM SOP-AA-01
(EPA 3050B/EPA 7420)

Lead Paint Analysis Report

Laboratory Job # 357350

600 Bancroft Way, Ste. A
Berkeley, CA 94710
(510) 704-8930
FAX (510) 704-8429



ASBESTOS TEM LABORATORIES, INC



Apr/26/2018

W. Frieszell
Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

RE: LABORATORY JOB # 357350

Atomic Absorption Spectroscopy analytical results for 3 paint sample(s).

Job Site: Nike Missile Sit, Guard Shack, 2892 Fairmont Dr

Job No.: R1187351

Enclosed please find results for the atomic absorption spectroscopy (AA) metals analysis of one or more paint samples. Sample preparation and analysis procedures were performed according to ATEM SOP-AA-01 (EPA 3050B / EPA 7420).

Prior to analysis, samples are checked for damage and disruption of the chain-of-custody seal. Samples are then logged-in, each given a unique laboratory number, and a hard copy containing all pertinent information is generated. This, and all other relevant paper work are kept with each sample throughout the analytical procedures to assure proper analysis.

A portion of each sample is weighed out such that an aliquot of ~0.2 grams is obtained. The weighed sample material is then placed into a digestion vessel, transferred to a fume hood, heated at ~95 Deg. C, refluxed with nitric acid to solubilize the contained metals, and treated with hydrogen peroxide to oxidize any organic binder present in the sample material. High purity water is added to make a 50 ml volume for each sample.

AA analysis is performed on a microprocessor controlled Perkin Elmer AAnalyst 300 atomic absorption spectrophotometer, operating in the flame mode. Samples are diluted as needed to allow reading of concentrations in the calibration range. QC analyses are prepared and performed along with each sample batch to ensure accurate analytical determinations. Data is compiled into a standard report format and subjected to a thorough quality assurance check before the information is released to the client. Note: Sample results are not corrected for contamination based on the field blank(s) or other analytical blank(s).

Sincerely Yours,

A handwritten signature in black ink, appearing to read "R. Mc Bury".

ASBESTOS TEM LABORATORIES, INC.

--- Results for routine quality control samples run in parallel to the samples reported here were within acceptable limits. These results relate only to the sample(s) tested and must not be reproduced, except in full, with the approval of the laboratory. ---

ATOMIC ABSORPTION SPECTROSCOPY LEAD PAINT ANALYSIS REPORT ATEM SOP-AA-01 (EPA 3050B / EPA 7000B)

Page: **3** of **3**


Contact: W. Frieszell Address: Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608		Samples Submitted: 3 Samples Analyzed: 3 Job Site / No. Nike Missile Sit, Guard Shack, 2892 R1187351		Report No.: 357350 Date Submitted: Apr-19-18 Date Reported: Apr-26-18	
--	--	--	--	--	--

SAMPLE ID	METAL	SAMPLE RESULT	REPORTING LIMIT	LOCATION / DESCRIPTION
X-Pb-1 Lab ID # 1434-03381-001	Pb	4200 mg/kg 0.420 %	45 mg/kg 0.005 %	Green. CMU. Exterior wall. Guard shack, North wall - Exterior <div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> Apr-19-18 <u>Analysis Date</u> Apr-26-18 <u>Analyzed Weight (g)</u> 0.2223 </div>
X-Pb-2 Lab ID # 1434-03381-002	Pb	3800 mg/kg 0.380 %	49 mg/kg 0.005 %	Light red. Drywall. Interior wall. Guard shack - Interior wall <div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> Apr-19-18 <u>Analysis Date</u> Apr-26-18 <u>Analyzed Weight (g)</u> 0.2055 </div>
X-Pb-3 Lab ID # 1434-03381-003	Pb	9700 mg/kg 0.970 %	39 mg/kg 0.004 %	Window caulk. Wood. Glazing. Guard shack - North window. <div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> Apr-19-18 <u>Analysis Date</u> Apr-26-18 <u>Analyzed Weight (g)</u> 0.2537 </div>
				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>
				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>
				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>
				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>
				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>
				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>
				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>

Analytical results posted above relate only to the material(s) tested.
 The sample has not been blank corrected.

µg - micrograms 1% = 10,000 ppm 1ppm = 1 mg/Kg

Lab QC Reviewer 
 Jo Ann Huerto

Analyst 
 Jie Zhang

Guard
Shack357350
Terracon

E-MAIL REPORT TO: SEE BELOW PROJECT MANAGER (PM) ***ADDITIONAL RECIPIENTS*** <input type="checkbox"/> denise.wallen@terracon.com <input type="checkbox"/> eric.dyer@terracon.com		LEAD PAINT SAMPLE DATA SHEET * Lead Analysis <input checked="" type="checkbox"/> Flame AA (EPA 7420) <input type="checkbox"/> TTLC PAGE <u>1</u> OF <u> </u>	
<input type="checkbox"/> PM - S. Steiner ssteiner@terracon.com	<input type="checkbox"/> PM - K. Schroeter kmschroeter@terracon.com	<input checked="" type="checkbox"/> PM - W. Frieszell wmfrieszell@terracon.com	<input type="checkbox"/> PM - T. Kattchee takattchee@terracon.com
		<input type="checkbox"/> PM - K. Pilgrim kpilgrim@terracon.com	<input type="checkbox"/> PM - M. Benefield msbenefield@terracon.com

Project Name/ Address/ Building No.

Project#

Sampled By:

Sampling Date:

Sample(s) sent to: ☐ MAL ☐ EMSL ☐ Aerobiology ☒ Quantem OtherTAT ☐ Rush ☐ 24HRS ☐ 48HRS ☒ 3-5 Day

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
X- Ph-1	Paint Color: <u>Green</u> Substrate: <u>Cma</u> Component: <u>Exterior wall</u> Sample Location: Bldg # <u> </u> Unit # <u> </u> Room <u> </u> <u>Guard Shack, North Wall - Exterior</u>	
X- Ph-2	Paint Color: <u>Light Red</u> Substrate: <u>Drywall</u> Component: <u>Interior wall</u> Sample Location: Bldg # <u> </u> Unit # <u> </u> Room <u> </u> <u>Guard Shack - Interior wall</u>	
X- Ph-3	Paint Color: <u>Window Caulk</u> Substrate: <u>wood</u> Component: <u>Glazing</u> Sample Location: Bldg # <u> </u> Unit # <u> </u> Room <u> </u> <u>Guard Shack - North Window</u>	
	Paint Color: <u> </u> Substrate: <u> </u> Component: <u> </u> Sample Location: Bldg # <u> </u> Unit # <u> </u> Room <u> </u>	
	Paint Color: <u> </u> Substrate: <u> </u> Component: <u> </u> Sample Location: Bldg # <u> </u> Unit # <u> </u> Room <u> </u>	

Relinquished By:

Received By:

Received By:

Signature:

Signature:

Signature:

Date/Time:

Date/Time:

Date/Time:



2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 | 1.800.822.1650

Environmental Chemistry Analysis Report

QuanTEM Set ID: 286202
Date Received: 10/13/17
Received By: Travis Miller
Date Sampled:
Time Sampled:
Analyst: CR
Date of Report: 10/16/17

Client: RGA Environmental
1466 66th Street
Emeryville, CA 94608
Acct. No.: C018
Project: Nike Missile Base
Location: San Leandro, CA Building 1
Project No.: R1177B67

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	Nike-1-Pb-01	Paint	Lead	5,880	50	ppm	10/16/17 11:35	P EPA 7000B (1)

Authorized Signature: _____

Cherry Rossen, Technical Manager

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. QuanTEM is not responsible for user-supplied data used in calculations.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified

Supplemental Report

QAQC Results

QA ID: 15710

Test: Lead

Date: 10/16/2017

Matrix: Paint

Lab Number: 286202

Approved By: Cherry Rossen

Date Approved: 10/16/2017

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
ICB	0
Matrix Blank	0

Standards Data:

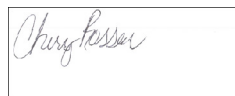
Standard	Low Limit	Obtained	High Limit
CCV	4.5	5	5.5
FCV	4.5	5	5.5
ICV	0.9	1	1.1
RLVS	0.05	0.1	0.15

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
LCS-P1	0.000	1.987	2.139	107.6	1.922	96.7	10.7

Authorized Signature:



Cherry Rossen, Technical Manager

286202

<input checked="" type="checkbox"/> PM - S. Steiner <u>spsteiner@terracon.com</u>	<input type="checkbox"/> PM - K. Schroeter <u>kmschroeter@terracon.com</u>	<input type="checkbox"/> PM - K. Pilgrim <u>kmpilgrim@terracon.com</u>
<input type="checkbox"/> PM D. Ufferfilge <u>dufferfilge@terracon.com</u>	<input type="checkbox"/> PM - T. Kattchee <u>takattchee@terracon.com</u>	<input type="checkbox"/> PM- M. Benefield <u>msbenefield@terracon.com</u>
<input type="checkbox"/> PM - W. Frieszell <u>wmfrieszell@terracon.com</u>		

LEAD PAINT

SAMPLE DATA SHEET

☒ * Lead Analysis
☐ Flame AA (EPA 7420)
☐ TTLC

PAGE 1 OF 1

Project Name/ Address/ Building No. Nike Missile Base / San Leandro, CA / Building 1
 Project# R1177867 Sampled By: J. Alexander Sampling Date: 10/11/17
 Sample(s) sent to: ☐ MAL ☐ EMSL ☐ Aerobiology ☒ Quantem Other _____
 TAT ☐ Rush ☐ 24HRS ☒ 48HRS ☐ 3-5 Day

FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)
 ADDITIONAL REPORT RECIPIENT(S): _____

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
<u>Nike-1-</u> <u>Pb-01</u>	Paint Color: <u>Light Green</u> Substrate: <u>Wood</u> Component: <u>Eaves</u> Sample Location: Bldg # <u>1</u> Unit # _____ Room <u>Exterior</u>	<u>P</u>
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	

Relinquished By: John Alexander Signature: [Signature] Date/Time: 10/11/17
 Heidi Santos Signature: _____ Date/Time: OCT 12 2017
 Received By: _____ Signature: _____ Date/Time: _____
 Received By: _____ Signature: _____ Date/Time: _____



2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 | 1.800.822.1650


Environmental Chemistry Analysis Report

QuanTEM Set ID: 286200
Date Received: 10/13/17
Received By: Travis Miller
Date Sampled:
Time Sampled:
Analyst: CR
Date of Report: 10/16/17

Client: RGA Environmental
1466 66th Street
Emeryville, CA 94608
Acct. No.: C018
Project: Nike Missile Base
Location: San Leandro, CA Building 2
Project No.: R1177B67

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	Nike-2-Pb-01	Paint	Lead	74,100	50	ppm	10/16/17 11:35	P EPA 7000B (1)

Authorized Signature: 
Cherry Rossen, Technical Manager

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. QuanTEM is not responsible for user-supplied data used in calculations.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified

Supplemental Report

QAQC Results

QA ID: 15710

Test: Lead

Date: 10/16/2017

Matrix: Paint

Lab Number: 286200

Approved By: Cherry Rossen

Date Approved: 10/16/2017

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
ICB	0
Matrix Blank	0

Standards Data:

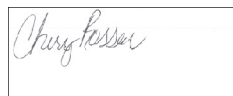
Standard	Low Limit	Obtained	High Limit
CCV	4.5	5	5.5
FCV	4.5	5	5.5
ICV	0.9	1	1.1
RLVS	0.05	0.1	0.15

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
LCS-P1	0.000	1.987	2.139	107.6	1.922	96.7	10.7

Authorized Signature:



Cherry Rossen, Technical Manager

256200

<input checked="" type="checkbox"/> PM - S. Steiner <u>spsteiner@terracon.com</u>	<input type="checkbox"/> PM - K. Schroeter <u>kmschroeter@terracon.com</u>	<input type="checkbox"/> PM - K. Pilgrim <u>kmpilgrim@terracon.com</u>
<input type="checkbox"/> PM D. Ufferfilge <u>dufferfilge@terracon.com</u>	<input type="checkbox"/> PM - T. Kattchee <u>takattchee@terracon.com</u>	<input type="checkbox"/> PM- M. Benefield <u>msbenefield@terracon.com</u>
<input type="checkbox"/> PM - W. Frieszell <u>wmfrieszell@terracon.com</u>		

LEAD PAINT SAMPLE DATA SHEET
☒ * Lead Analysis
☒ Flame AA (EPA 7420)
 _ TLCL
 PAGE 1 OF 1

Project Name/ Address/ Building No. Nike Missile Base / San Leandro, CA / Building 2

Project# R1177867 Sampled By: J. Alexander Sampling Date: 10/11/17

Sample(s) sent to: ☐ MAL ☐ EMSL ☐ Aerobiology ☒ Quantem Other _____

TAT ☐ Rush ☐ 24HRS ☒ 48HRS ☐ 3-5 Day

FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)

ADDITIONAL REPORT RECIPIENT(S): _____

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
Mike-2 -pb-01	Paint Color: <u>Light Green</u> Substrate: <u>Metal</u> Component: <u>HVAC Curb</u> Sample Location: Bldg # <u>2</u> Unit # _____ Room <u>Extension</u>	P

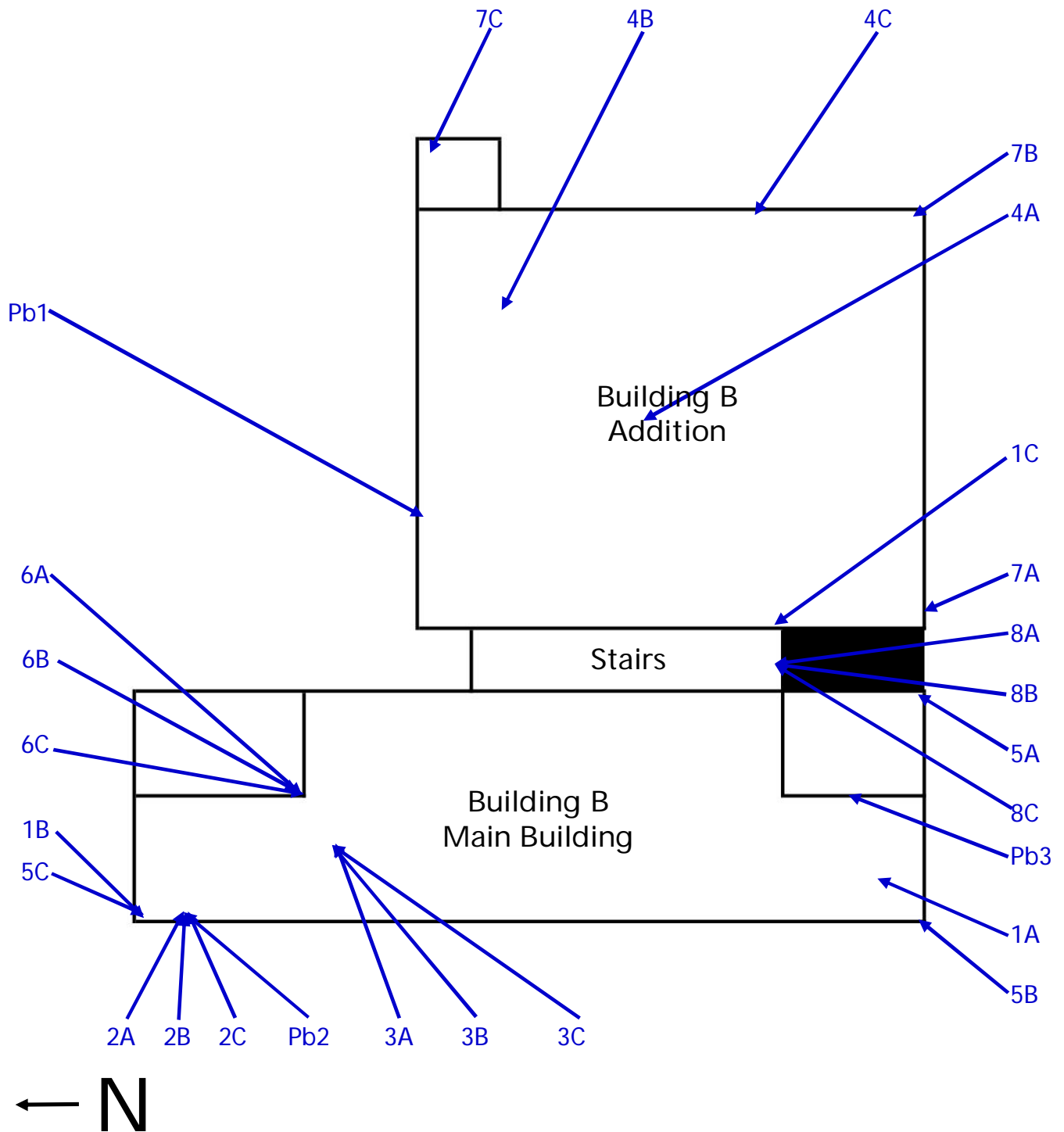
Relinquished By: John Alexander Signature: [Signature] Date/Time: 10/11/17


Received By: Heidi Santos Signature: _____ Date/Time: OCT 12 2017

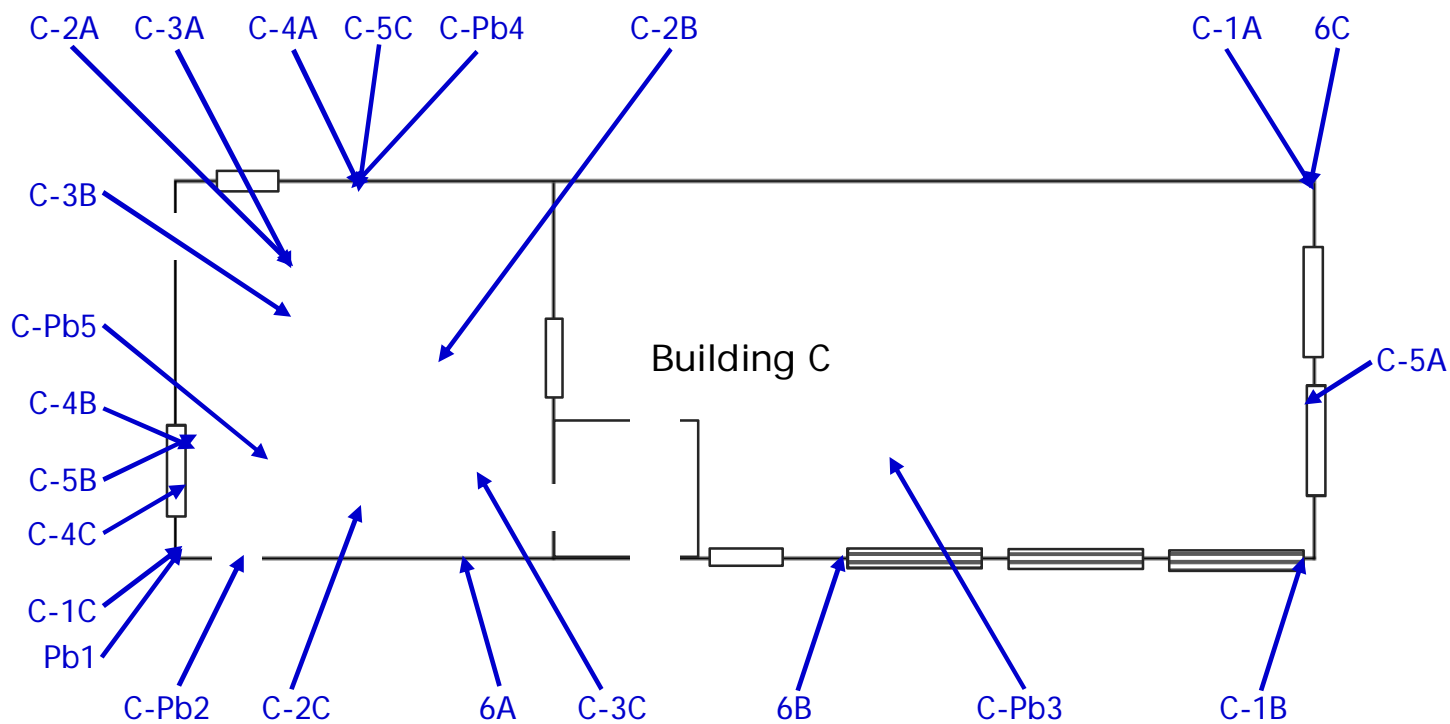
Received By: _____ Signature: _____ Date/Time: _____




Appendix 3:
Sample Location Diagrams

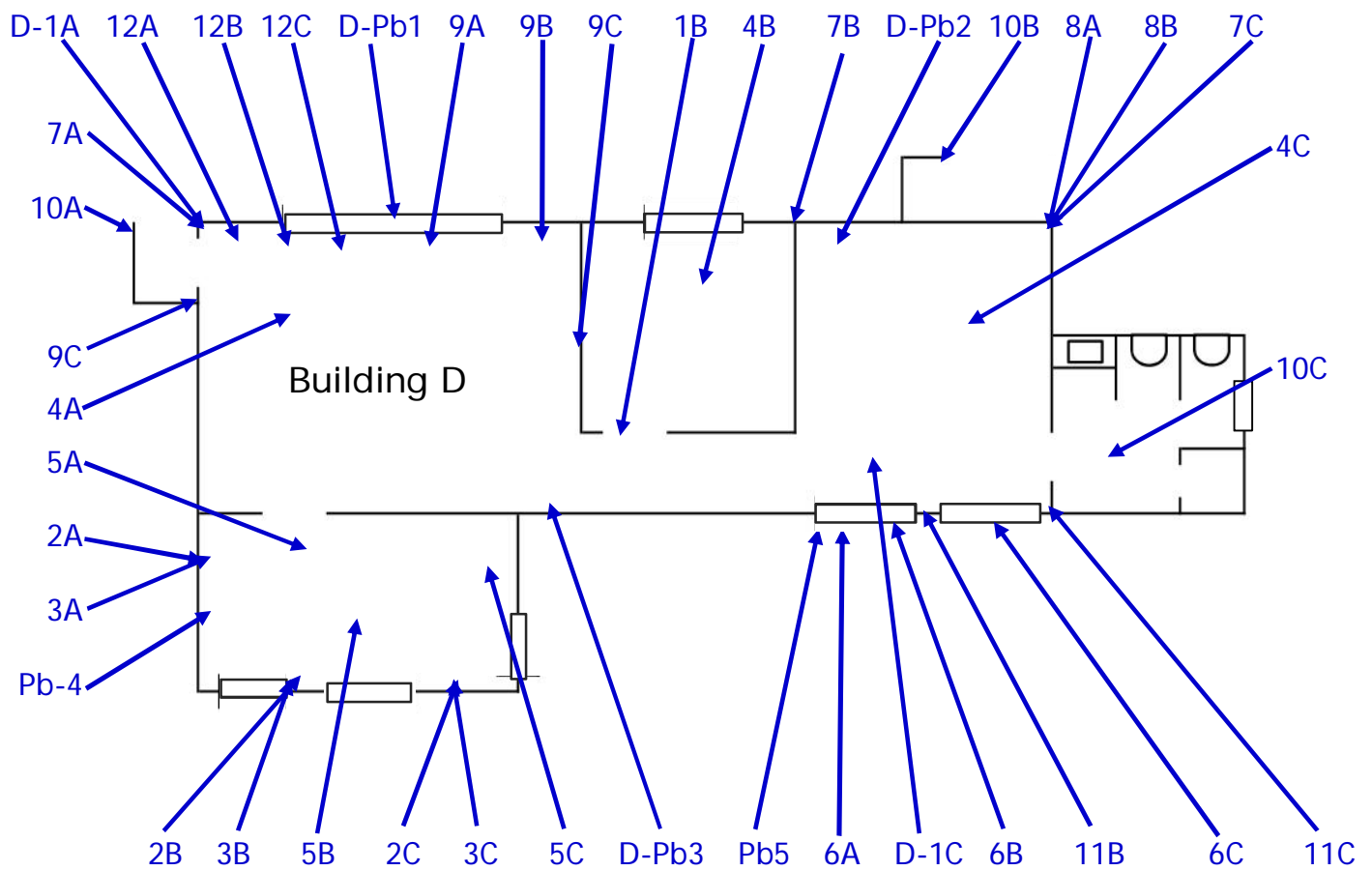


	Former Nike Missile Site Building B		2892 Fairmont Drive San Leandro, California		Not to Scale
	SURVEY DATE: April 19, 2018		PROJECT NO.:	R1187351	FIGURE: 1




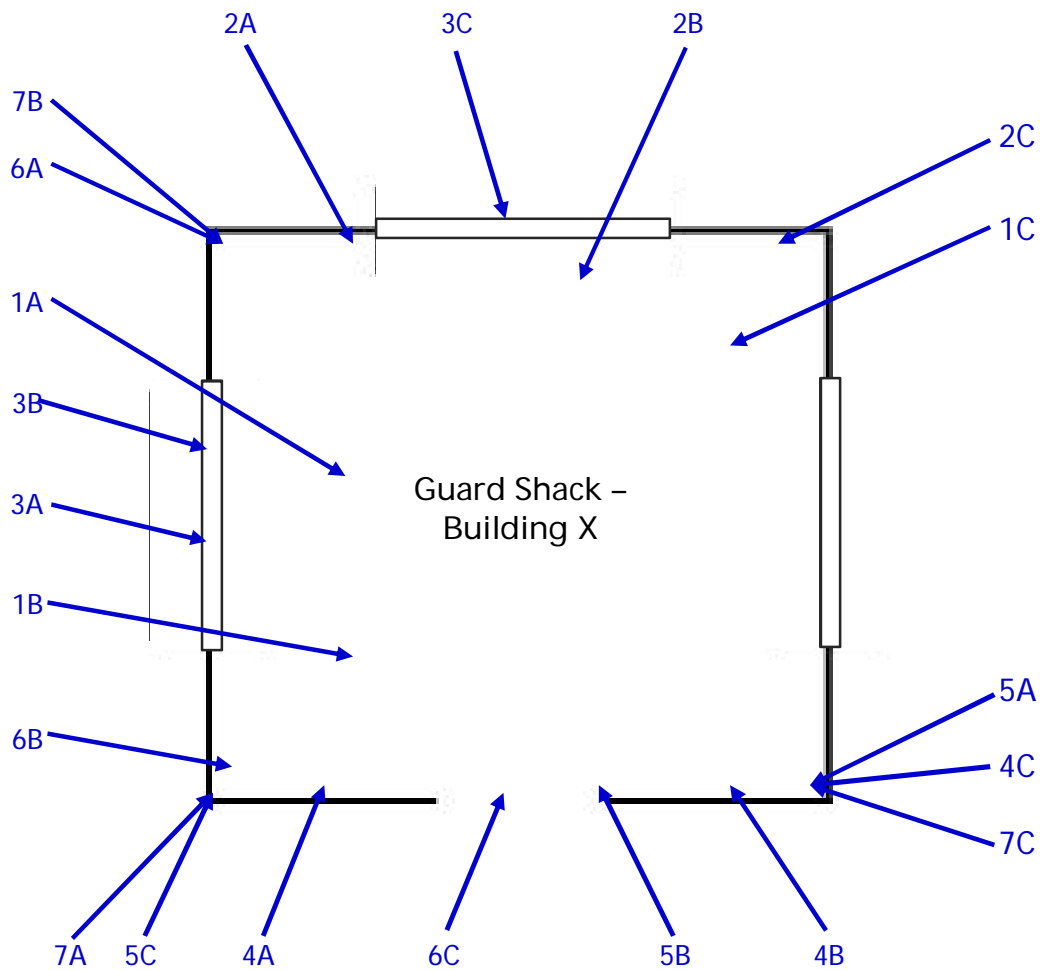
← N

	Former Nike Missile Site Building C		2892 Fairmont Drive San Leandro, California		Not to Scale
	SURVEY DATE: April 19, 2018		PROJECT NO.:	R1187351	FIGURE: 2




← N

	Former Nike Missile Site Building D		2892 Fairmont Drive San Leandro, California		Not to Scale
	SURVEY DATE: April 19, 2018		PROJECT NO.:	R1187351	FIGURE: 3



← N

	Former Nike Missile Site Guard Shack		2892 Fairmont Drive San Leandro, California		Not to Scale
	SURVEY DATE: April 19, 2018		PROJECT NO.:	R1187351	FIGURE: 4





Appendix 4:
Site Inspector Certifications

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Remington R Caldwell

Name

Certification No. **97-2180**

Expires on **05/06/19**



This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California Department of Public Health

Lead-Related
Construction
Certificate

Certificate
Type

Expiration
Date



Inspector/Assessor	10/25/2018
Project Monitor	10/25/2018



Remington R. Caldwell

ID #: 15307

Appendix D

Asbestos Abatement Report

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



RECEIVED
DEC 29 1997

December 22, 1997

STID 4345

COUNTY OF ALAMEDA
ENVIRONMENTAL HEALTH SERVICES
Technical Services
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

REMEDIAL ACTION COMPLETION CERTIFICATION

Mr. Jim de Vos
Alameda County GSA
Engineering & Environmental Management Dept.
1401 Lakeside Drive, 11th Floor
Oakland, CA 94612

RE: NIKE MISSILE SITE, 2892 FAIRMONT DRIVE, SAN LEANDRO

Dear Mr. de Vos:

This letter confirms the completion of a site investigation and remedial action for the underground storage tank formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Section 2721(e) of Title 23 of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung
Director, Environmental Health Services

c: Richard Pantages, Chief, Env. Protection Division
Kevin Graves, RWQCB
Dave Deaner, SWRCB (w/attachment)
SOS/files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



RECEIVED
DEC 29 1997

COUNTY OF ALAMEDA

Technical Services
ENVIRONMENTAL HEALTH SERVICES

ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

December 22, 1997

STID 4345

Mr. Jim de Vos
Alameda County GSA
Engineering & Environmental Management Dept.
1401 Lakeside Drive, 11th Floor
Oakland, CA 94612

RE: NIKE MISSILE SITE, 2892 FAIRMONT DRIVE, SAN LEANDRO

Dear Mr. de Vos:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]) of the California Health and Safety Code. The State Water Resources Control Board (SWRCB) has required since March 1, 1997 that this agency use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at this site.

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- o No detectable Total Petroleum Hydrocarbons as Diesel, among other constituents, remain in native soil beneath the former UST to the depth explored (50' below grade).

If you have any questions, please contact the undersigned at (510) 567-6783.

Sincerely,

Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

Enclosures:

1. Case Closure Letter
2. Case Closure Summary

cc: Richard Pantages, Chief, Environmental Protection

CALIFORNIA REGIONAL WATER

01NC40228
change to a case

DEC 01 1997

CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: 11/24/97

Agency name: Alameda County-EPD Address: 1131 Harbor Bay Pkwy #250
City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700
Responsible staff person: Scott Seery Title: Haz. Materials Spec.

II. CASE INFORMATION

Site facility name: Nike Missile Site
Site facility address: 2892 Fairmont Dr., San Leandro 94578
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 4345
URF filing date: 11/19/93 SWEEPS No: N/A

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone Numbers:</u>
Alameda County	1401 Lakeside Dr., 11th Fl	(510) 208-9522
General Services Agency	Oakland, CA 94612	
Attn: Rod Freitag		

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	6000	diesel	removed	10/27/93

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: UNK

Site characterization complete? YES

Date approved by oversight agency:

Monitoring Wells installed? NO Number: NA

Proper screened interval? NA

Highest GW depth below ground surface: >50' Lowest depth: >50'

Flow direction: UNK

Most sensitive current use: radio transmission facility / open space

Are drinking water wells affected? NO Aquifer name: NA

Is surface water affected? NO Nearest affected SW name: NA

Off-site beneficial use impacts (addresses/locations): NONE

Leaking Underground Fuel Storage Tank Program

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)

Report(s) on file? YES Where is report filed? Alameda County
 1131 Harbor Bay Pkwy
 Alameda CA 94502

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount</u> (include units)	<u>Action (Treatment or Disposal w/destination)</u>	<u>Date</u>
Tank	6000 gal	<u>Disposal</u> - Erickson, Inc. Richmond, CA	10/27/93
Piping	~ 270'	<u>Disposal</u> - Erickson, Inc. Richmond, CA	10/27/93
Free Product	NA		
Soil	1 yd ³	<u>Disposal</u> - BFI L.F. Livermore, CA	08/02/94
	70 yds ³	<u>Disposal</u> - on-site	1993

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm) ¹		Water (ppb)	
	<u>Before</u>	<u>After</u>	<u>Before</u>	<u>After</u>
TPH (Diesel)	3300	ND	NA	NA
Benzene	ND	"		
Toluene	0.007	"		
Xylene	0.016	"		
Ethylbenzene	ND	"		

Note: 1) "Before: soil results from samples collected below UST or piping during October 1993 closure. "After" soil results reflect samples collected from boring B-1 emplaced next to UST excavation during February 1994.

Comments (Depth of Remediation, etc.):

The site was formerly a Nike missile site, located atop Fairmont Ridge at an elevation of approximately 780' above MSL. It most recently served as a county communication facility.

A single 6000 gallon diesel UST was removed during October 1993. The tank previously served as a fuel supply for emergency generators at the site, and appeared intact upon removal. Soil samples collected from below the edge of the tank hold-down pad and piping trenches revealed up to 3300 ppm TPH-D and detectable toluene and total xylenes.

During the process of uncovering and removing the tank, a stockpile of ~140 yds³ was generated. A series of SESOIL leachability simulations were run based on latent low levels of diesel components in the stockpile. Simulation results indicate after 30 years, the maximum depth of migration was 4 inches. The stockpile remains on-site.

Leaking Underground Fuel Storage Tank Program

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Undetermined

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Undetermined

Does corrective action protect public health for current land use? YES
Site management requirements: NA

Should corrective action be reviewed if land use changes? NO

Monitoring wells Decommissioned: NA

Number Decommissioned: NA Number Retained: NA

List enforcement actions taken: NONE

List enforcement actions rescinded: NA

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Scott Seery Title: Haz Mat Specialist
Signature: *[Signature]* Date: 11/24/97

Reviewed by
Name: Tom Peacock Title: Supervising Haz Mat Specialist
Signature: *[Signature]* Date: 11-24-97

Name: Brian Oliva Title: Haz Mat Specialist
Signature: *[Signature]* Date: 11/14/97

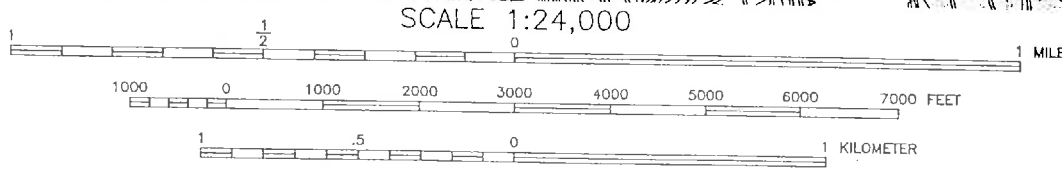
VI. RWQCB NOTIFICATION

Date Submitted to RB: 11/24/97 RB Response: *Approved*
RWQCB Staff Name: Kevin Graves Title: San. Eng. Assoc. Date:

VII. ADDITIONAL COMMENTS, DATA, ETC.

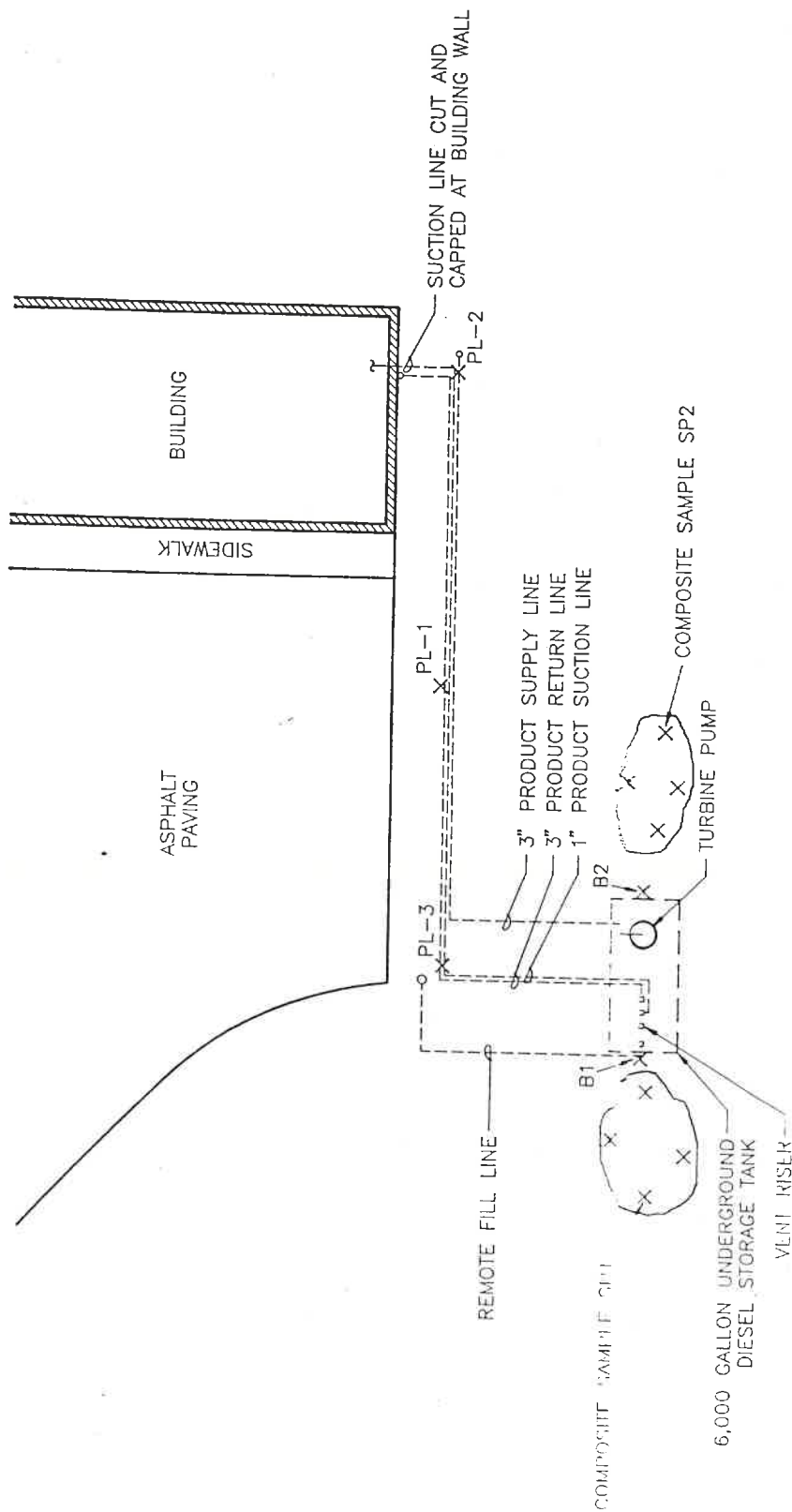
[Signature] 12/15/97
A single soil boring (B-1) was advanced to a depth of 50' BG in an attempt to characterize underlying geology, intercept ground water, and identify the extent of the fuel release. Encountered sediments were predominantly fined-grained materials derived from in-situ weathering of underlying layered sedimentary bedrock. Ground water was not encountered to the depth explored.

No detectable HCs, odors, or evidence of impact were identified in any soil samples collected during advancement. No further action is warranted.




A CILCORP Company

PROJ. NO.
6-93-5058



SCALE
0 20 FEET

	Environmental Science & Engineering, Inc.	DATE 11/93	SOIL SAMPLING PLAN	FIGURE NO. 3	PROJ. NO. 6-93-5058	
						ALAMEDA COUNTY GSA – NIKE SITE 2892 FAIRMONT DRIVE SAN LEANDRO, CALIFORNIA

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553

Tele: 510-798-1620 Fax: 510-798-1622

Environmental Science & Eng. 4090 Nelson Avenue, Suite J Concord, CA 94520	Client Project ID: # 6935058; Nike	Date Sampled: 10/27/93
		Date Received: 10/27/93
	Client Contact: Mike Fogel	Date Extracted: 10/28/93
	Client P.O: W002945	Date Analyzed: 10/28/93

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d) ⁺	% Recovery Surrogate
32846	PL-1	S	ND	99
32847	PL-2	S	ND	100
32848	PL-3	S	ND	100
32849	SP-1	S	11,e	101
32850	SP-2	S	140,a	100
32851	B-1	S	ND	100
32852	B-2	S	3300,a,g	107
Detection Limit unless other- wise stated; ND means Not Detected	W		50 ug/L	
	S		10 mg/kg	

*water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; surrogate and sample peaks co-elute or surrogate peak is on elevated baseline

⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) modified diesel?; light(CL) or heavy(CH) diesel compounds are significant; d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel(pattern unrecognized; aged diesel?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible phase is present.

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553

Tele: 510-798-1620 Fax: 510-798-1622

Environmental Science & Eng. 4090 Nelson Avenue, Suite J Concord, CA 94520	Client Project ID: # 6935058; Nike	Date Sampled: 10/27/93
		Date Received: 10/27/93
	Client Contact: Mike Fogt	Date Extracted: 10/28/93
	Client P.O: W002945	Date Analyzed: 10/28/93

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID (5030)

Lab ID	Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
32846	PL-1	S	---	ND	ND	ND	ND	93
32847	PL-2	S	---	ND	ND	ND	ND	94
32848	PL-3	S	---	ND	0.007	ND	0.016	94
32849	SP-1	S	---	ND	ND	ND	ND	103
32850	SP-2	S	---	ND	ND	ND	ND	103
32851	B-1	S	---	ND	ND	ND	ND	102
32852	B-2	S	---	ND < 0.05	ND < 0.05	ND < 0.05	0.057	90
Detection Limit unless otherwise stated; ND means Not Detected		W	50 ug/L	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.005	0.005	0.005	0.005	

*water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; sample peak co-elutes with surrogate peak

⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds are significant; no recognizable pattern; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible phase is present.



Building

Sidewalk

Asphalt Paved Parking Area

Driveway

Approximate Area of Excavation

B-1

Concrete Footing

Legend

■ Borehole Location

Scale (feet)



Project No. 2241-008

Site Plan

2892 Fairmont Drive
San Leandro, California

Figure 2

Versar, Inc.

TABLE 1

LABORATORY ANALYTICAL RESULTS FOR BORING B-1

Nike Military Site
San Leandro, California

Sample ID	Sample Date	Sample Depth (feet)	TPH-D ¹ (mg/kg) ²	Benzene ³ (mg/kg)	Toluene ³ (mg/kg)	Ethylbenzene ³ (mg/kg)	Total Xylenes ³ (mg/kg)
B-1-1	2/25/94	5	<10 ⁴	<0.05	<0.05	<0.05	<0.05
B-1-2	2/25/94	10	<10	<0.05	<0.05	<0.05	<0.05
B-1-3	2/25/94	15	<10	<0.05	<0.05	<0.05	<0.05
B-1-4	2/25/94	20	<10	<0.05	<0.05	<0.05	<0.05
B-1-5	2/25/94	25	<10	<0.05	<0.05	<0.05	<0.05
B-1-6	2/25/94	30	<10	<0.05	<0.05	<0.05	<0.05
B-1-7	2/25/94	35	<10	<0.05	<0.05	<0.05	<0.05
B-1-8	2/25/94	40	<10	<0.05	<0.05	<0.05	<0.05
B-1-9	2/25/94	45	<10	<0.05	<0.05	<0.05	<0.05
B-1-10	2/25/94	50	<10	<0.05	<0.05	<0.05	<0.05

¹ Total Petroleum Hydrocarbons as Diesel; EPA Method 8015

² Milligrams per kilogram

³ EPA Method 8020

⁴ Not detected at or above the relative method's reporting unit

Versar Inc.		DRILLING LOG		PROJECT NO. 2241-008					
Supervising Geologist: Michael Sellens			Site Name: Nike						
Log By: Mike Kitko			Boring No: B-1						
Date: February 25, 1994			Boring Diameter: 8 inch						
Drilling Contractor: Turner Explorations			Boring Depth: 50 feet						
Contractor Lic. No. C57-602720			Boring Location: East of excavation						
Rig Type: B-53									
Driller: Larry Dibble									
Depth (ft)	Advanced/ Recovered	Blow Counts	First Water/ Water Table	Well Construction	USCS Group	Lithology	USCS SOIL DESCRIPTION SOIL CONDITION AND GEOLOGIC INTERPRETATION		Headspace (ppm)
							SOIL TYPE, ROUNDING, SORTING, PERCENT: GRAVEL, SANDS, FINES COLOR, MOISTURE, DENSITY, SECONDARY POROSITY, ODORS, STAINING GEOLOGY: FILL, ALLUVIUM, BEDROCK		
2							0.0' - 4.0' Sand: well rounded, well sorted, medium to coarse grained, moderated yellowish brown, dry, visible oil staining, no hydrocarbon odor.		
4									
6	X	8					4.0' - 9.0' Silty clay: weathered rock, non-plastic, friable, damp, moderate yellowish color, no visible oil staining, no hydrocarbon odor.	0	
8									
10	X	17					9.0' - 14.0' Same as above, no visible oil staining, no hydrocarbon odor.		
12	X	20						0	
14									
16	X	50/5"					14.0' - 19.0' Same as above, extremely weathered, no visible oil staining, no hydrocarbon odor, sample collected.	0	
18									
20	X	9					19.0' - 25.0' Same as above, highly weathered rock, poorly indurated, fracture, stiff, damp, no hydrocarbon odor, no visible oil staining.	0	
22	X	18							
	X	16							

[illegible]

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



March 17, 2003

Mr. Jim Townsend
East Bay Regional Parks
2950 Peralta Oaks Ct
Oakland, CA 94605

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

**Subject: Underground Storage Tank/Piping Sampling Activities at 2892
Fairmont Drive, San Leandro, CA (Reference No. R00002519)**

Dear Mr. Townsend:

Alameda County Department of Environmental Health (ACDEH) staff has reviewed AEI Consultants' December 12, 2002 *Underground Storage Tank Removal Final Report* prepared for the above referenced site. Based on the results of the soil sampling activities, an Unauthorized Release form was completed for the site.

The referenced report and associated documentation indicate the following:

- A 1000-gallon diesel UST and 60 feet of associated piping were removed in November 26, 2002.
- Soil sample results indicated up to 1.8 parts per million of Total Petroleum Hydrocarbons as Diesel. Benzene, toluene, ethyl-benzene, and xylenes were not detected at concentrations above the laboratory detection limits.
- ACDEH staff did not observe visible contamination or odors in the tank pit or piping trench.

Based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions, ACEH has determined that there is not sufficient evidence of an unauthorized release or threat to waters of the State to warrant listing this case. Therefore, ACDEH will not add this case to our LUFT database, and no further corrective action related to the tank and piping removal is being required by this agency.

If you have any questions, I can be reached at (510) 567-6762

eva chu
Hazardous Materials Specialist

c: Roger Brewer, SF-RWQCB
Susan Torrence, Alameda Co. DA Office

MAR 25 2003

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM. SIGNED: <u>[Signature]</u> DATE: <u>2/26/03</u>	
REPORT DATE 02/26/03		CASE # _____			
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT [Signature]		PHONE (510) 567 6762		SIGNATURE [Signature]
	REPRESENTING <input type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input checked="" type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER _____		COMPANY OR AGENCY NAME Alameda Co. Environmental Health		
	ADDRESS 1131 Harbor Bay Parkway Alameda CA 94502				
RESPONSIBLE PARTY	NAME East Bay Regional Parks <input type="checkbox"/> UNKNOWN		CONTACT PERSON Jim Townsend		PHONE (510) 635-6135
	ADDRESS 2950 Perata Oaks Ct Oakland CA 94605				
SITE LOCATION	FACILITY NAME (IF APPLICABLE) East Bay Regional Parks		OPERATOR _____		PHONE ()
	ADDRESS 2892 Fairmount Dr San Leandro Alameda 94544				
	CROSS STREET _____				
IMPLEMENTING AGENCIES	LOCAL AGENCY Alameda Co. Environmental Health		CONTACT PERSON [Signature]		PHONE (510) 567 6762
	REGIONAL BOARD SF-RWQCB		PHONE ()		
SUBSTANCES INVOLVED	(1) NAME Diesel				QUANTITY LOST (GALLONS) _____ <input checked="" type="checkbox"/> UNKNOWN
	(2) _____				_____ <input type="checkbox"/> UNKNOWN
DISCOVERY/ABATEMENT	DATE DISCOVERED 1/12/02		HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> OTHER <u>Soil Analytical data</u>		
	DATE DISCHARGE BEGAN _____ <input checked="" type="checkbox"/> UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input checked="" type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> OTHER _____		
	HAS DISCHARGE BEEN STOPPED? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE _____				
SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER _____		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER _____		
	CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input checked="" type="checkbox"/> SOIL ONLY <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)				
CURRENT STATUS	CHECK ONE ONLY <input checked="" type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input checked="" type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY				
	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input checked="" type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input type="checkbox"/> OTHER (OT) _____				
COMMENTS	_____				

Appendix E

Remedial Action Completion Certification



ACC ENVIRONMENTAL CONSULTANTS, INC.
7977 Capwell Drive, Suite 100
Oakland, California 94621
O 510.638.8400
F 510.638.8404
www.accenv.com

Prepared By:
Stephen Jackson
Senior Project Manager
sjackson@accenv.com

Prepared For:
Mr. Jason Garrison
County of Alameda
1401 Lakeside Drive, Oakland, CA 94612

PROJECT DOCUMENTATION

PRIVATE AND CONFIDENTIAL

ASBESTOS ABATEMENT MONITORING

Project Location:
Former NIKE Site
2982 Fairmont Drive
San Leandro, CA

October 30, 2019

ACC Project No: 2062-163.00



INTRODUCTION

ACC presents this project documentation package summarizing project activities supervised by ACC Environmental Consultants, Inc. (ACC). ACC was authorized by Mr. Jason Garrison with the County of Alameda to perform these services according to the scope of work defined in ACC Environmental Project Cost Estimate #76357 dated June 27, 2019 in connection with the abatement of hazardous materials as described in the NIKE Site Hazardous Materials Specification and as summarized in the table below. Additionally, during the work, asbestos-containing pipe insulation debris was identified behind Building D. The clean-up and disposal of this material was included in this project.

Material Description	Location	Quantity
Roof Patch/Mastic	Guard Shack	5 SF
Floor Tile and Mastic	Building B	1,024 SF
Roof Penetration Mastic	Building B, Roof	20 SF
Floor Tile and Mastic	Building C	380 SF
Transite Panels	Building C	80 SF
Roof Patch Mastic	Building C, Roof	25 SF
Roof Flashing	Building C, Roof	100 SF
Drywall with Joint Compound, Ceilings and Debris	Building D	1,572 SF
Drywall with Joint Compound	Building D, Western Area	280 SF
Texture on Drywall	Building D	1,812
Transite Panels	Building D, Exterior	360 SF
Floor Tile and Mastic	Building D	1,572 SF
Paneling Mastic	Building D	200 SF
Roof Patch Mastic	Building D, Roof	25 SF
Loose and Peeling Paint	Buildings B, C, D and Guard Shack	Not Quantified, Partial Removal

ACC has summarized the hazardous materials removal activities and related work into this format to document compliance with governing local, state and federal regulations. Specific information regarding the project, parties involved, engineering controls and post-removal sampling results (otherwise known as "clearance sampling" where regulatory guidelines are available) is found below. Copies of the contractor submittals, daily reports, and sampling reports are attached to this summary. The County of Alameda should maintain this project package for the life of the property and pass the package on to subsequent owners, as necessary.

PROJECT INFORMATION

Project Name:	ASBESTOS ABATEMENT MONITORING	ACC Project Manager:	Stephen Jackson
Project Address:	2982 Fairmont Drive San Leandro, CA	ACC Field Personnel:	Massoud Navvab
Client Contact:	Jason Garrison – County of Alameda	ACC Project Number:	2062-163.00
Client Address:	1401 Lakeside Drive, Suite 1115 Oakland, CA 94612	Abatement Contractor:	Conflo Services
General Contractor:	STS Construction, Inc.	Contractor Supervisor:	Mario Ortega
		GC Foreman:	None

SCHEDULE AND DURATION

Start Date: 7/26/2019 Completion Date: 8/21/2019 Dates of Multiple Phases: 2
 Number of Shifts: 17 Shift: ☒ Day ☐ Night ☐ Swing Day(s): ☒ Mon ☒ Tue ☒ Wed ☒ Thu ☒ Fri ☐ Sat ☐ Sun

SCOPE OF WORK

The following table provides an overview of the hazardous materials related scope of work for the project.

<input checked="" type="checkbox"/> *Limited Project	<input checked="" type="checkbox"/> ACM Wall Materials	<input type="checkbox"/> Lead-Based Coating (LBC)	<input type="checkbox"/> Mold-Impacted Materials	
<input checked="" type="checkbox"/> Asbestos Removal	<input checked="" type="checkbox"/> ACM Roofing Materials	<input type="checkbox"/> Lead-Containing Coating (LCC)	<input type="checkbox"/> Water Damaged Materials	
<input type="checkbox"/> ACM Contractor Assistance	<input checked="" type="checkbox"/> ACM TSI/Insulation Materials	<input type="checkbox"/> Lead Glazed Ceramic Tile	<input type="checkbox"/> Lighting Wastes	
<input type="checkbox"/> ACM Spot Abatement	<input type="checkbox"/> ACM Surfacing Materials	<input type="checkbox"/> Loose & Peeling Lead Paint	<input type="checkbox"/> PCB Ballasts	
<input type="checkbox"/> ACM Ceiling Materials	<input checked="" type="checkbox"/> ACM Miscellaneous Materials	<input type="checkbox"/> Lead Sheeting	<input type="checkbox"/> Mercury Vapor Light Tubes	
<input checked="" type="checkbox"/> ACM Flooring Materials	<input checked="" type="checkbox"/> Lead Removal LBC and LCC	<input type="checkbox"/> Indoor Air Quality (IAQ)	<input type="checkbox"/> Mercury Thermostat Switches	
ACM OSHA Activity Level Check All That Apply	<input checked="" type="checkbox"/> Class I	<input checked="" type="checkbox"/> Class II	<input type="checkbox"/> Class III	<input type="checkbox"/> Class IV

Description of Work Areas: **Guard Shack, Buildings B, C and D**

Were any materials scheduled for removal left within the work area(s) due to inaccessibility, etc.? ☒ No ☐ Yes If Yes, Describe Below:

*Description of Project Limitations: Removal of paint was limited to loose and flaking paint only.

If the "Limited Project" box is checked, the project survey and/or removal activities were limited to the project related areas and included only materials that were impacted by the repair, renovation and/or demolition scope of work as planned by the Client. The material(s), similar materials and related quantities may be present in other areas of the building and should be handled appropriately if those materials will be disturbed in the future.

CONTAINMENT SETUP & ENGINEERING CONTROLS

All materials were removed and/or activities within regulated work areas were conducted using industry standard work practices and engineering controls, including but not limited to the following measures:

<input checked="" type="checkbox"/> Negative Pressure Enclosure	<input checked="" type="checkbox"/> Splash Guards	<input type="checkbox"/> Three-Stage w/ Shower	<input type="checkbox"/> Building Power	<input type="checkbox"/> No Odor Mastic Remover
<input type="checkbox"/> Mini Containment	<input checked="" type="checkbox"/> Drop Sheet	<input checked="" type="checkbox"/> Two-Stage w/ Hudson	<input type="checkbox"/> Temp Power Box	<input checked="" type="checkbox"/> Wet Removal Methods
<input type="checkbox"/> Clean Cube	<input checked="" type="checkbox"/> View Ports	<input type="checkbox"/> One-Stage w/ Hudson	<input checked="" type="checkbox"/> Contractor Supplied Power	<input type="checkbox"/> NPU Charcoal Filters
<input type="checkbox"/> Glove Bags	<input checked="" type="checkbox"/> English Warning Signs	<input type="checkbox"/> "Z" Flap Air-Locks	<input checked="" type="checkbox"/> GFCI Protection	<input checked="" type="checkbox"/> Fire Extinguishers
<input checked="" type="checkbox"/> Critical Barriers	<input checked="" type="checkbox"/> Spanish Warning Signs	<input type="checkbox"/> No Decon Required	<input type="checkbox"/> Temporary Lighting	<input type="checkbox"/> DOP Test Air Filtration Unit
<input type="checkbox"/> Poly Walls (min 4-mil.)	<input checked="" type="checkbox"/> Hazard Barrier Tape	<input type="checkbox"/> Separate Waste Load-Out	<input checked="" type="checkbox"/> Contractor Supplied Water	<input type="checkbox"/> DOP Test HEPA Vacuum
<input type="checkbox"/> Poly Floors (min. 6-mil.)	<input checked="" type="checkbox"/> -0.02" Negative Pressure	<input type="checkbox"/> Shut Down HVAC	Exhaust Location: Outside Air	
<input type="checkbox"/> Poly Ceiling (min 4-mil.)	<input type="checkbox"/> -0.04" Negative Pressure	<input type="checkbox"/> Protect Existing Floor	Other:	

PERSONAL PROTECTIVE EQUIPMENT (PPE)

<input checked="" type="checkbox"/> ½ Face Respirator	<input checked="" type="checkbox"/> HEPA/ P100 Cartridges	<input type="checkbox"/> Piggy-back Cartridges	<input checked="" type="checkbox"/> Hard Hat	<input checked="" type="checkbox"/> Gloves
<input type="checkbox"/> Full Face Respirator	<input type="checkbox"/> Organic Vapor Cartridges	<input checked="" type="checkbox"/> Disposable Suit	<input checked="" type="checkbox"/> Safety Glasses	<input checked="" type="checkbox"/> Steel Toe/Shank Boots
<input type="checkbox"/> PAPR	<input type="checkbox"/> Acid Gas Cartridges	<input checked="" type="checkbox"/> Neon Vest	<input type="checkbox"/> Hearing Protection	<input type="checkbox"/> Fall Protection
<input type="checkbox"/> Supplied Air Respirator	<input type="checkbox"/> Ammonia Cartridges	<input type="checkbox"/> Other:		

VISUAL INSPECTION AND SAMPLING

After completion of the work in each building by Conflo, ACC conducted a visual inspection of each work area to verify that the required work was complete and that no visible debris was observed in or immediately outside of the work area. The visual inspections for each work area were successful and the work was deemed complete.

ACC conducted air sampling during and after removal activities. Air sampling conducted during removal activities is categorized as "perimeter" air sampling. Sampling conducted after removal activities is categorized as post-removal sampling or, when regulatory guidelines have been established, "clearance" sampling. Sampling results are identified in the table below.

Asbestos air samples are analyzed by two common methods: Phase Contrast Microscopy (PCM) and Transmission Electron Microscopy (TEM). Both methods collect air samples on 25-millimeter (mm) diameter cassettes equipped with 50-mm conductive cowl and either 0.8 micron or 0.45 micron mixed cellulose ester filter membranes for PCM and TEM respectively. The PCM method (NIOSH 7400) does not distinguish between asbestiform and non-asbestiform fibers and does not report the presence of fibers less than 5 microns in length. The "clearance" criteria after an asbestos abatement procedure for PCM analysis is 0.01 fibers per cubic centimeter (f/cc) of air. The TEM method (AHERA) is specific for asbestos fibers and is capable of detecting fibers greater than 0.02 microns (.00000002 meter) in diameter. The clearance criteria after an asbestos abatement procedure for TEM analysis are 70 S/mm² using the AHERA TEM Method.

Air samples for this project were analyzed on-site by ACC's project technician in accordance with the PCM NIOSH7400 analytical method. Certificate of training and proficiency for ACC's on-site analyst are provided as attachments.

Asbestos Air Sampling Results Summary

Date	Sample Type	Sample Number	Sample Location	Liters of Air per Minute	Total Volume (Liters)	Results (f/cc)
7/24/19	Perimeter	A-503452	Building B, Entrance to Decontamination Unit	8.76	3460.2	<0.001
7/25/19	Perimeter	A503453	Building B, Entrance to Decontamination Unit	8.76	3766.8	<0.001
7/26/19	Clearance	A-503454	Building B, Inside Middle Section	13.68	1915.2	0.001
7/26/19	Clearance	A-50355	Building B, Inside Middle West Section	13.68	1915.2	0.001
7/26/19	Clearance	A-503456	Building B, Inside Middle East Section	13.68	1915.2	0.001
7/29/19	Perimeter	A-503457	Building C, Entrance to Decon	8.78	1357.8	0.001
7/29/19	Clearance	A-50358	Building C, Inside North Section	13.68	1915.2	0.001
7/29/19	Clearance	A-503459	Building C, Inside South Section	13.68	1915.2	0.001
8/6/19	Perimeter	A-503460	Building D, Entrance to Decontamination Unit	8.76	3416.4	<0.001
8/7/19	Perimeter	A-503461	Building D, Entrance to Decontamination Unit	8.76	3285	<0.001
8/8/19	Perimeter	A-503462	Building D, Entrance to Decontamination Unity	8.76	1576.8	0.002
8/8/19	Clearance	A-503463	Building D, Inside North Section	13.68	1915.2	0.001
8/8/19	Clearance	A-503464	Building D, Inside Middle Section	13.68	1915.2	0.001
8/8/19	Clearance	A-503465	Building D, Inside Southeast Section	13.68	1915.2	0.001
8/20/19	Perimeter	A-503466	Building D, Entrance to Soil Exterior Containment	8.76	3460.2	<0.001

All areas met clearance criteria PCM analysis prior to the removal of the containment and re-occupancy of the work area.

Lead Perimeter Sampling Results

Date	Sample Type	Sample Number	Sample Location	Liters of Air per Minute	Total Volume (Liters)	Results (ug/m3)
7/31/19	Perimeter	L-11800	Building C, South Exterior	13.68	4514.4	<1
8/1/19	Perimeter	L-11810	Building C, South Exterior	13.68	4514.4	<1

After the completion of the pipe insulation debris removal, ACC collected three bulk samples of soil for analysis by Polarized Light Microscopy (PLM). No asbestos was detected in any of the samples. The results are summarized in the table below.

Asbestos Bulk Sample Summary

Date	Sample Type	Sample Number	Sample Location	Results
8/21/19	Bulk Soil	SO-01-01	Building D, South Exterior Area	None Detected
8/21/19	Bulk Soil	SO-01-02	Building D, South Exterior Area	None Detected



Date	Sample Type	Sample Number	Sample Location	Results
8/21/19	Bulk Soil	SO-01-03	Building D, South Exterior Area	None Detected

The attached documents, as indicated the Document Transmittal section below, provide further details for this Project Documentation Summary. Please contact ACC at (510) 638-8400 should you have any questions regarding this documentation and/or the project.

Sincerely,

ACC ENVIRONMENTAL CONSULTANTS, INC.

Stephen Jackson

Senior Project Manager

Cal-OSHA Certified Asbestos Consultant (CAC) #95-1782, CDPH Lead I/A/M #9148

Document Transmittal			Distribution
<input checked="" type="checkbox"/> ACC Employee Certifications	<input checked="" type="checkbox"/> Air Sampling Results	<input type="checkbox"/> Manometer Logs	<input type="checkbox"/> Abatement Contractor
<input type="checkbox"/> Bid Document	<input checked="" type="checkbox"/> Containment Inspection Forms	<input type="checkbox"/> Photographs/ Photo Logs	<input type="checkbox"/> Building Engineers
<input type="checkbox"/> Insurance Certificates	<input checked="" type="checkbox"/> Daily Field Reports	<input checked="" type="checkbox"/> Waste Manifests/ Weight Tickets	<input checked="" type="checkbox"/> Client
<input type="checkbox"/> Licenses, Permits & Notifications	<input checked="" type="checkbox"/> Drawings/ Location Maps	<input type="checkbox"/> Worker Acknowledgement Forms	<input type="checkbox"/> General Contractor (GC)
<input type="checkbox"/> Specification/ Work Plan	<input checked="" type="checkbox"/> Final Visual Inspection Form	<input type="checkbox"/> Worker Certification Checklist	<input type="checkbox"/> Project File
<input type="checkbox"/> Survey Report	<input type="checkbox"/> Laboratory Reports	<input checked="" type="checkbox"/> Worker Submittals (Training/ Medical Exam/ Fit Test)	<input type="checkbox"/> Property File
<input type="checkbox"/> Other:			<input type="checkbox"/> Property Manager

ACC Employee Certificates

State of California Department of Public Health

Lead-Related
Construction
Certificate



Certificate
Type

Expiration
Date

Inspector/Assessor
Project Monitor

12/20/2020
12/20/2020

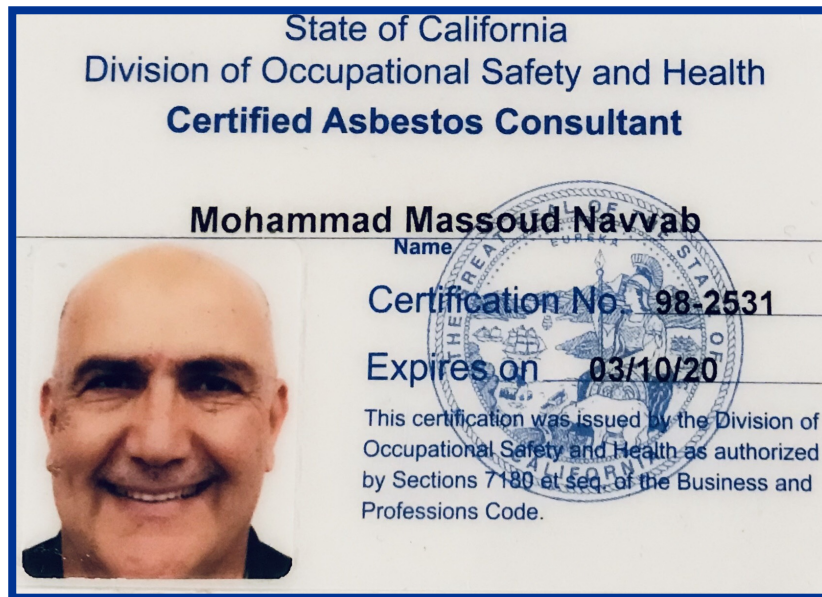


Mohammad M. Navvab

ID #: 8555

Mohammad Massoud Navvab

CAC ID card # 98-2531



MAINTENANCE OF CERTIFICATION

The possessor of this certification shall maintain the certification by:

1. complying with all applicable laws pertaining to asbestos-related work;
2. keeping all required AHERA certificates in a current and valid state;
3. showing this certification card upon request during the course of asbestos-related work;
4. informing the Division within 15 days of any change in home or mailing address; and
5. properly supervising any site surveillance technicians(s) and personnel in asbestos-related work; and
6. signing final written reports of consulting work with a signature block containing "Certified Asbestos Consultant", the certification number and signature of the consultant.

A certification which has not been maintained as described above may not be renewed by the Division of Occupational Safety and Health.

(Rev. 6-94)

ACC PAT Round Worksheet #218 7/30/2019

Tech	Blank			1			2			3			4			Pass/Fail 3 out of 4
	Fibers	Fields	f/mm2	Fibers	Fields	f/mm2	Fibers	Fields	f/mm2	Fibers	Fields	f/mm2	Fibers	Fields	f/mm2	
			#DIV/0!			#DIV/0!			#DIV/0!			#DIV/0!			#DIV/0!	LA
Parra, Hermes (Sub)			#DIV/0!			#DIV/0!			#DIV/0!			#DIV/0!			#DIV/0!	Norcal
Navvab, Massoud	0	100	0	100	100	127.39	107	42	324.54	105.5	34	395.28	53.5	100	68.15	Norcal
Sanchez, Mark			#DIV/0!			#DIV/0!			#DIV/0!			#DIV/0!			#DIV/0!	Norcal
Valerian, Gus	0	100	0	100	98	129.99	100	47	271.04	100	25	509.55	27	100	34.39	Norcal
Rodriguez, Heri		100	0			#DIV/0!			#DIV/0!			#DIV/0!			#DIV/0!	LA
Cereno, Fred (Sub)			#DIV/0!			#DIV/0!			#DIV/0!			#DIV/0!			#DIV/0!	Norcal
De La Torre, Brian	0	100	0	52	100	66.24	100	48	265.39	103	50	262.42	55	100	70.06	Norcal
Brydon, Ben			#DIV/0!			#DIV/0!			#DIV/0!			#DIV/0!			#DIV/0!	LA
Leon, Jorge	0	100	0	91.5	100	116.56	148	64	294.59	151.5	46	419.55	54	100	68.79	Norcal
Mendoza, Owen			#DIV/0!			#DIV/0!			#DIV/0!			#DIV/0!			#DIV/0!	LA
Ben Schulte-Bisping	0	100	0	76	100	96.82	105.5	56	239.99	112	60	237.79	29.5	100	37.58	Norcal
Gehrman, Rachael	0	100	0	83	103	102.65	101	43	299.21	104	49	270.38	67	103	82.86	Norcal
Ramjerdi, Mercede	0	100	0	70.5	100	89.81	107	73	186.72	104	56	236.58	45.5	100	57.96	LA
Wakeley, Nicholas	2	100	2.54777	73	100	92.99	100	44	289.52	100	52	244.98	49	100	62.42	Norcal
Estes, James			#DIV/0!			#DIV/0!			#DIV/0!			#DIV/0!			#DIV/0!	Norcal
ACC Average	0.25	100	0.00	80.75	100.125	102.7	108.56	52.13	265.3	110	46.5	301.3	47.5625	100.375	60.4	Pass
Average f/cc column			0.00						#DIV/0!			#DIV/0!			#DIV/0!	
ACC Submitted			0			102.7			265.30			301.30			60.40	
ACC Z-score			0													
AIHA Reference Value			0			112			291			336			75	
AIHA Acceptable Low						55			170			184			37	
AIHA Acceptable High						189			443			534			128	
AIHA Standard Deviation						-0.4			-0.6			-0.6			-1	
AIHA Total Labs																
AIHA Labs Acceptable						A			A			A			A	

*Results submitted past deadline

Closest to actual value

Outside of range

ACC Daily Report



DAILY PROJECT REPORT

Project Information		Date:	07/23/2019 Tuesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Shift Activities

Containment Setup	Containment Inspection	Bulk Material Removal	Perimeter Air Sampling	Final Detail Cleaning	Waste Load-Out	Final Visual Inspection	Final Air Clearance	Containment Tear-Down	Equipment De-Mobilize
✓	✓								
Work Area Location		General Debris Removed		Materials Removed (Asbestos & Lead)			Quantity	SF/LF	
Building B.		General Construction debris clean up							
Total Number of Work Areas:	1	Total Number of Containments:	1	See Notes for Additional Work Areas/ Materials Not Listed Above					
Asbestos Work Class:	Class I		✓ Class II		Class III		Unclassified		

Materials Removed

Asbestos Removal		Lead Removal		Additional Hazardous Materials	
Contractor Assistance	Roofing Materials	Lead-Based Coating/ Paint		Mercury Vapor Light Tubes	Water Damaged Materials
Spot Abatement	Miscellaneous Materials	Lead-Containing Coating/ Paint		PCB Ballasts	Mold-Impacted Materials
Ceiling Materials	Surfacing Materials	Lead Glazed Ceramic Tile		Mercury Thermostat Switches	Indoor Air Quality (IAQ)
Flooring Materials	TSI/Insulation Materials	Loose & Peeling Lead Paint			
Wall Materials		Lead Sheeting			

Contractor Information

Contractor:	Conflo Services, Inc. Abatement/Demolition		Supervisor Name:	Mario Ortega	
Crew Size	3	Total No. of Personal Samples:	0	8-hour TWA:	0
Excursion:	0	Shift Start Time:	06:30 am	Lunch Time:	10:30 am
Shift Finish Time:	03:00 pm	Total Hours:	8.00		

Personal Protective Equipment

✓ ½ Face Respirator	✓ HEPA/ P100 Cartridges	✓ Full Body Disposable Suit	✓ Hard Hat	✓ Gloves
Full Face Respirator	Organic Vapor Cartridges	Disposable Suit w/ Hood	✓ Safety Glasses	✓ Steel Toe/Shank Boots
PAPR	Acid Gas Cartridges	✓ Neon Vest	Hearing Protection	Fall Protection
Supplied Air Respirator	Piggy-back Cartridges	Other:		

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DAILY PROJECT REPORT

Project Information		Date:	07/23/2019 Tuesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Air Monitoring Information

Air Sampling Performed by ACC During Shift?		Yes	<input checked="" type="checkbox"/> No	Total Number of Samples Collected:		0
# of Samples	Cassette Type	Sample Type	Sample Numbers			
Onsite PCM Analysis Performed?		Yes	No	Name of Analyst:		
Laboratory Name, City:						

Engineering Controls & Work Area Setup

<input checked="" type="checkbox"/> Negative Pressure Enclosure	<input checked="" type="checkbox"/> Splash Guards	<input checked="" type="checkbox"/> Three-Stage w/Shower	Building Power	No Odor Mastic Remover
Mini Containment	Drop Sheet	Two-Stage w/Hudson	Temp Power Box	Wet Removal Methods
Clean Cube	View Ports	One-Stage w/Hudson	<input checked="" type="checkbox"/> Contractor Supplied Power	NPU Charcoal Filters
Glove Bags	<input checked="" type="checkbox"/> English Warning Signs	"Z" Flap Air-Locks	GFCI Protection	Fire Extinguishers
<input checked="" type="checkbox"/> Critical Barriers	<input checked="" type="checkbox"/> Spanish Warning Signs	No Decon Required	<input checked="" type="checkbox"/> Temporary Lighting	DOP Test Air Filtration Unit
Poly Walls (min 4-mil.)	Hazard Barrier Tape	Remote Shower	Contractor Supplied Water	DOP Test HEPA Vacuum
Poly Floors (min. 6-mil.)	<input checked="" type="checkbox"/> -0.02" Negative Pressure	Separate Load-Out	NPU Exhaust Location: Outside the Bldg	
Poly Ceiling (min 4-mil.)	-0.04" Negative Pressure	Shut Down HVAC	Other:	

Contractor Work Practice Information

	Yes	No	NA
Have copies of worker documents been received from the contractor in compliance with the scope of work?	<input checked="" type="checkbox"/>		
Are 'OSHA' personal air monitoring sample results being posted daily?			<input checked="" type="checkbox"/>
Are workers going through the proper decontamination sequence upon leaving the work areas?	<input checked="" type="checkbox"/>		
Are good safety practices being followed at the job site?	<input checked="" type="checkbox"/>		
Are workers demonstrating good "housekeeping" techniques?	<input checked="" type="checkbox"/>		
Is ACM (greater than >1%) being bagged and labeled as asbestos waste?			<input checked="" type="checkbox"/>
Is water being used continuously to mist air, wet materials during removal and keep waste bags/ materials saturated?			<input checked="" type="checkbox"/>
Are waste containers properly lined with poly, labeled, sealed, secured/ locked to prevent public access?			<input checked="" type="checkbox"/>

Waste Information

Waste Type	Manifest Type	Manifest Number	Date	ID Number:
1.				
2.				
3.				
Transporter 1:				
Transporter 2:				
Designated Facility Name:				



ACTIVITIES LOG

Project Information		Date:	07/23/2019 Tuesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Time: Contractor Activity / Notable Occurrence

What Materials Are Removed - From Where - How Many Workers - Performing What Tasks - Using What Methods?
Any Problems, Visitors, Complaints?

6:30 AM : Conflo Services, Inc. Abatement/Demolition crew of 3 men are onsite.
7:00 AM : Conflo Services, Inc abatement crew with PPE are continuing the General Construction debris cleaning in the building B interior & loading the General Construction debris waste inside their company truck prior to the load out.
7:15 AM : ACC onsite project Technician met General Contractor project manager (John Won) onsite next to the building B.
8:00 AM : The General Construction Debris loading in the Conflo Services truck is completed for now due to the full truck load & the truck is leaving the job site. Conflo crew are continuing the General Construction debris demolition & bagging removed NON-ACM/Lead waste in clear plastic bags & leaving waste bags outside the building B for the next load out.
8:30 AM : ACC Project technician completed collecting 2 Waste characterization bulk samples from 1- Gaurd Shed interior wood with Loose & peeling paint & Building D, dried Sludges from the interior flooring.
10:35 AM : There are 4 Visitors from Sheriff office are onsite to relocate a few live equipments inside the Building B, before the asbestos abatement to start. Conflo Services crew have completed up to 90% of the General Construction debris cleaning inside the building B. Crew are continuing with the regulated area plastic set up & the decontamination unit plastic set up by the entrance to the building B as well as sealing open penetrations inside the building B.
10:45 AM : Conflo Asbestos/ Lead abatement crew are leaving the building B for a lunch break.
12:00 PM : Conflo crew are continuing with the containment set up in the Building B.
2:00 PM : Conflo crew have completed the containment set up for the building B. Also sheriff department team steel working in the Building B.
2:30 PM : ACC Project technician is going to deliver two bulk samples for waste characterization to Forensic analytical.

ACC Staff Signature:

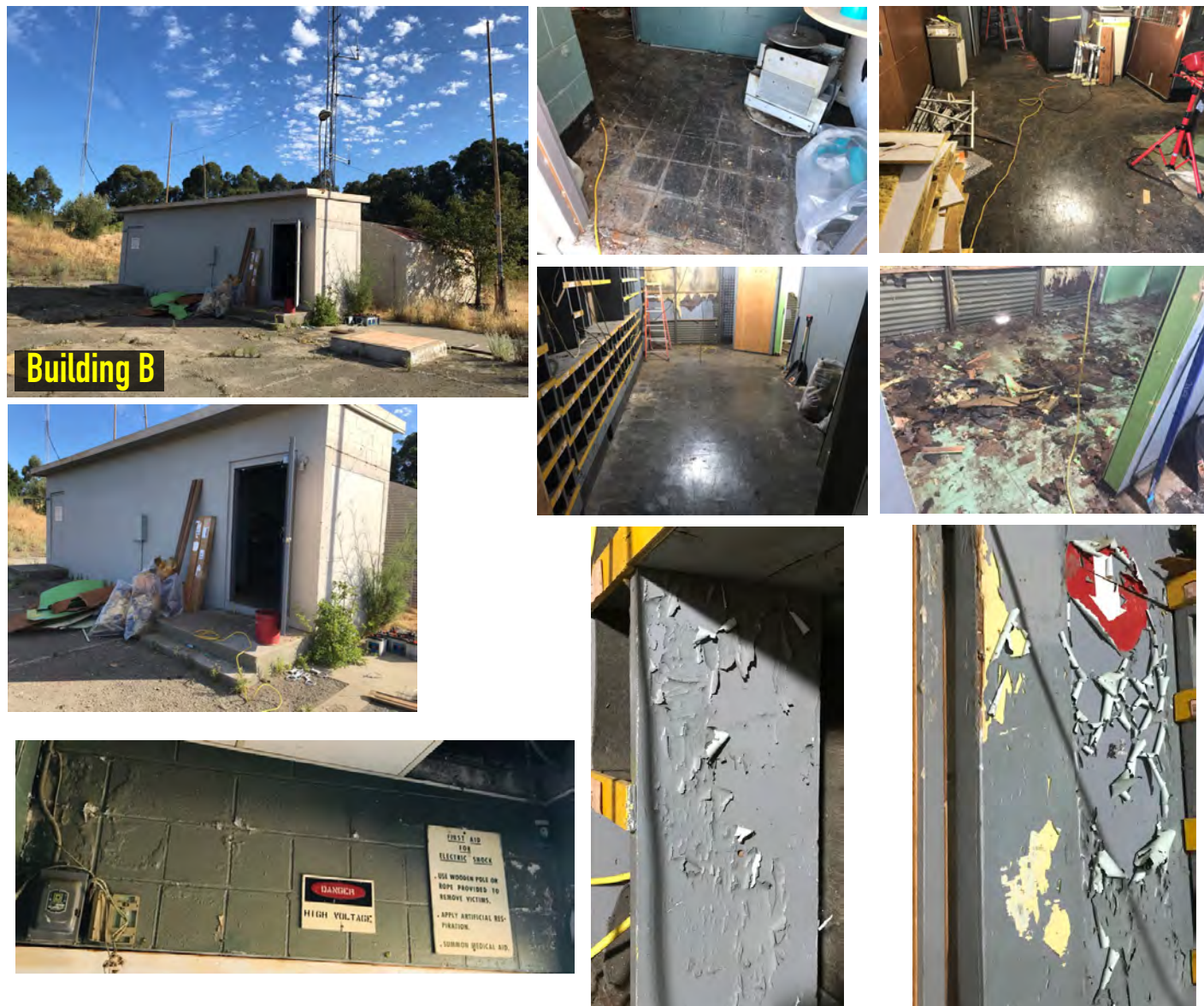
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Site Photos and Diagrams

Project Information		Date:	07/23/2019 Tuesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		

Site Photos and Diagrams



[Handwritten Signature]

ACC Staff Signature:

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BULK SAMPLE CHAIN-OF-CUSTODY

Report to:	Steve Jackson	Email:	sjackson@accenv.com	Phone:	(510)512-8320
Project Name:	2892 Fairmont Drive, San Leandro, Ca.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca.			Project Number:	2062-163.00
Collected by:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555).			Date Collected:	07/23/19
Sample Analysis:	PLM	Lead	✓ STLC & TCLP	Stop at 1 st Positive Layer	Turnaround Time: 5 Days
Comments:	Waste characterization Samples STLC = Soluble Threshold Limit Concentration. TCLP = Toxicity Characteristic Leaching Procedure.				
Sample ID	Material Size-Color-Pattern-Material-Post Description	Material Location [Quantity] Building or Floor: Area(s) - Component	Sample Location Area - Component	Size	
PB-01-01	Interior plywood & Loose & peeling paint.	Guard Shed interior walls	Guard Shed interior walls	Bulk Sample	
PB-02-01	Dried Sludge	Building D, on the floor	Building D, on the floor	Bulk Sample	
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
Released:	M.Massoud Navvab	Signature:		Date:	07/23/19
Received:		Signature:		Date:	
Lab Info:	EMSL Analytical, Inc. (EMSL): 464 McCormick Street, San Leandro, California 94577, (510) 895-3675 ✓ Forensic Analytical Laboratories, Inc. (FALI): 3777 Depot Road # 409, Hayward, California 94545, (510) 887-8828				



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DAILY PROJECT REPORT

Project Information				Date:	07/24/2019 Wednesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.						
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.						
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)			Project Manager:	Stephen Jackson (OAK)		

Shift Activities

Containment Setup	Containment Inspection	Bulk Material Removal	Perimeter Air Sampling	Final Detail Cleaning	Waste Load-Out	Final Visual Inspection	Final Air Clearance	Containment Tear-Down	Equipment De-Mobilize	
✓	✓	✓	✓							
Work Area Location			General Debris Removed			Materials Removed (Asbestos & Lead)			Quantity	SF/LF
Building B, inside the Containment.			A stationery wooden Item.			9"x9" ACM green floor tiles & Black Adhesive			800	SF
						9"x9" ACM Black floor tiles & Black Adhesive			800	SF
Total Number of Work Areas:		1	Total Number of Containments:		1	See Notes for Additional Work Areas/ Materials Not Listed Above				
Asbestos Work Class:		Class I		✓ Class II		Class III		Unclassified		

Materials Removed

✓ Asbestos Removal		Lead Removal	Additional Hazardous Materials	
Contractor Assistance	Roofing Materials	Lead-Based Coating/ Paint	Mercury Vapor Light Tubes	Water Damaged Materials
Spot Abatement	✓ Miscellaneous Materials	Lead-Containing Coating/ Paint	PCB Ballasts	Mold-Impacted Materials
Ceiling Materials	Surfacing Materials	Lead Glazed Ceramic Tile	Mercury Thermostat Switches	Indoor Air Quality (IAQ)
✓ Flooring Materials	TSI/Insulation Materials	Loose & Peeling Lead Paint		
Wall Materials		Lead Sheeting		

Contractor Information

Contractor:	Conflo Services, Inc. Abatement/Demolition			Supervisor Name:	Mario Ortega		
Crew Size	3	Total No. of Personal Samples:	3	8-hour TWA:	2	Excursion:	1
Shift Start Time:	06:00 am	Lunch Time:	10:00 am	Shift Finish Time:	02:30 pm	Total Hours:	8.00

Personal Protective Equipment

✓ ½ Face Respirator	✓ HEPA/ P100 Cartridges	✓ Full Body Disposable Suit	✓ Hard Hat	✓ Gloves
Full Face Respirator	Organic Vapor Cartridges	Disposable Suit w/ Hood	✓ Safety Glasses	✓ Steel Toe/Shank Boots
PAPR	Acid Gas Cartridges	✓ Neon Vest	Hearing Protection	Fall Protection
Supplied Air Respirator	Piggy-back Cartridges	Other:		

DAILY PROJECT REPORT

Project Information		Date:	07/24/2019 Wednesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Air Monitoring Information

Air Sampling Performed by ACC During Shift?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Total Number of Samples Collected:		1
# of Samples	Cassette Type	Sample Type	Sample Numbers			
1	PCM	Perimeter	A-503452			
Onsite PCM Analysis Performed?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Name of Analyst:		
Laboratory Name, City:						

Engineering Controls & Work Area Setup

<input checked="" type="checkbox"/> Negative Pressure Enclosure	<input checked="" type="checkbox"/> Splash Guards	<input checked="" type="checkbox"/> Three-Stage w/Shower	<input checked="" type="checkbox"/> Building Power	<input checked="" type="checkbox"/> No Odor Mastic Remover
Mini Containment	<input checked="" type="checkbox"/> Drop Sheet	Two-Stage w/Hudson	Temp Power Box	<input checked="" type="checkbox"/> Wet Removal Methods
Clean Cube	<input checked="" type="checkbox"/> View Ports	One-Stage w/Hudson	<input checked="" type="checkbox"/> Contractor Supplied Power	NPU Charcoal Filters
Glove Bags	<input checked="" type="checkbox"/> English Warning Signs	"Z" Flap Air-Locks	GFCI Protection	<input checked="" type="checkbox"/> Fire Extinguishers
<input checked="" type="checkbox"/> Critical Barriers	<input checked="" type="checkbox"/> Spanish Warning Signs	No Decon Required	<input checked="" type="checkbox"/> Temporary Lighting	<input checked="" type="checkbox"/> DOP Test Air Filtration Unit
Poly Walls (min 4-mil.)	Hazard Barrier Tape	Remote Shower	<input checked="" type="checkbox"/> Contractor Supplied Water	<input checked="" type="checkbox"/> DOP Test HEPA Vacuum
Poly Floors (min. 6-mil.)	<input checked="" type="checkbox"/> -0.02" Negative Pressure	Separate Load-Out	NPU Exhaust Location: Outside the Building.	
Poly Ceiling (min 4-mil.)	-0.04" Negative Pressure	<input checked="" type="checkbox"/> Shut Down HVAC	Other:	

Contractor Work Practice Information

	Yes	No	NA
Have copies of worker documents been received from the contractor in compliance with the scope of work?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are 'OSHA' personal air monitoring sample results being posted daily?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are workers going through the proper decontamination sequence upon leaving the work areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are good safety practices being followed at the job site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are workers demonstrating good "housekeeping" techniques?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is ACM (greater than >1%) being bagged and labeled as asbestos waste?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is water being used continuously to mist air, wet materials during removal and keep waste bags/ materials saturated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are waste containers properly lined with poly, labeled, sealed, secured/ locked to prevent public access?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Information

Waste Type	Manifest Type	Manifest Number	Date	ID Number:
1.				
2.				
3.				
Transporter 1:				
Transporter 2:				
Designated Facility Name:				

ACTIVITIES LOG

Project Information		Date:	07/24/2019 Wednesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Time: Contractor Activity / Notable Occurrence

What Materials Are Removed - From Where - How Many Workers - Performing What Tasks - Using What Methods?
Any Problems, Visitors, Complaints?

6:00 AM : Conflo Services, Inc. Abatement/Demolition crew of 3 men are onsite, The General Contractor (STS Construction, Inc)project Manager (John Won) also is onsite.

6:15 AM : Conflo project supervisor tried to get water from the water storage tank located front of the building B, but there is no water pressure in the tank & there is no water from the project job site is available for the abatement contractor. Conflo has a very limited water available onsite & they are contacting their office to provide water for the asbestos & Lead abatement project.

6:30 AM : Conflo Services, Inc. crew turned the diesel generator on onsite. ACC onsite technician visually inspected the building B containment area, critical barriers, the negative air machines (3 each). The decontamination unit, the negative air pressure (-0.024" H2O Hg) & find to be all in an acceptable condition. The containment inspection is completed & is passed. Conflo Services, abatement crew are getting ready to go inside the Bldg B, containment area with PPE to start the interior asbestos abatement by removing ACM 9"x9" green & Black Floor tiles & the ACM Black Adhesive through out the containment area. The negative air pressure is achieved & Conflo abatement team have Hudson water sprayer inside the Bldg B containment area to follow the wet method & keeping removed ACM flooring wet on the floor.

8:00 AM Conflo Services, Inc. project superintendent Daniel Levine visited the job site & reviewed the project work activities in progress with Mario Ortega who is Conflo onsite supervisor. Also due to the water issue he is going to bring more water in to the job site , ACC onsite technician reviewed the project work activities with him & notified him there are multiple locations on the ground around the Bldg B, that has remaining ACM Roof Patching compound (see photos attached) that needs to be clean up prior to the completion of the B building asbestos abatement project. Also there are flees in the Bldg B that is causing difficulties & uncomfortable environment while working inside the Bldg B & this issue needs to be discussed with the Alameda County to be taking care of.

9:00 AM : Conflo Services abatement crew with PPE are continuing the ACM Flooring materials removal inside the Bldg B, containment area. The flooring removal is ACM 9"x9" green & ACM 9"x9" Black Floor tiles & the ACM Black Adhesive through out the containment area. The negative air pressure is achieved & Conflo abatement team have been using Hudson water sprayer as the wet method to control the existing dust & keeping removed materials wet on the floor inside the Bldg B, containment area. Containment crew also are bagging removed flooring materials in waste clear plastic bags & keeping bags inside the containment for now.

10:00 AM : Conflo Services, Inc, Team are leaving the Bldg B containment area through the decontamination unit for a lunch break.

11:00 AM : Conflo Services, abatement crew are going back inside the Building B, containment to continue the remaining of ACM Flooring materials removal & to start the ACM Black adhesive removal & detail clean up with adhesive remover & hand tools. All flooring asbestos abatement work activities has been with hand tool scrapers. There has been no use of machinery equipments operating with electricity throughout the flooring asbestos abatement in the Building B. The negative air pressure is achieved & Conflo abatement team have been using Hudson water sprayer as the wet method to control the existing dust & keeping removed materials wet on the floor & inside the waste clear plastic bags inside the Bldg B, containment area.

12:30 PM : Conflo Services, abatement crew have completed the the remaining of ACM Flooring 9"x9" Flooring materials removal up to 80% & crew are continuing the ACM Black adhesive removal & detail clean up with adhesive remover inside the metal shed structure which is part of the same containment area. All removed ACM flooring asbestos abatement removal work activities has been with hand tool scrapers & all removed waste materials are bagged in clear waste plastic bags. The negative air pressure is achieved & is -0.030" H2O. Conflo abatement team have been using Hudson water sprayer as the wet method throughout the shift.

1:40 PM : Jason Garrison from Alameda County GSA visited the project job site & reviewed the project progress work activities & work schedule with Conflo Services onsite supervisor.

2:15 PM : Conflo Services abatement crew are leaving the containment through the decontamination unit for today's work shift.

2:30 Conflo Services crew are leaving the job site.



ACC Staff Signature:

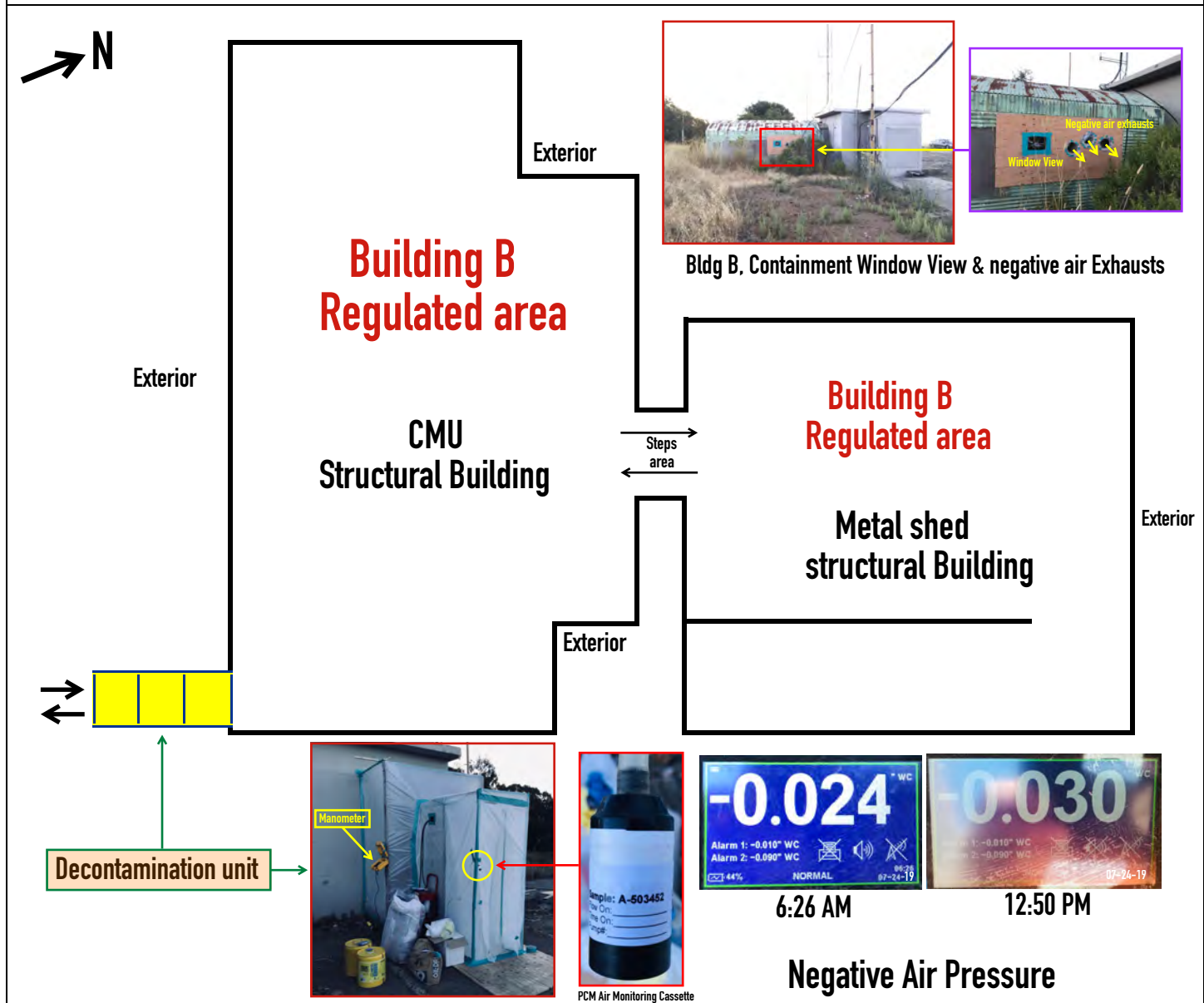
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Southern California: 1055 Wilshire Boulevard, Suite 1450 • Los Angeles, California 90017 • (213) 353-1240 • Fax (213) 353-1244

Site Photos and Diagrams

Project Information		Date:	07/24/2019 Wednesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		

Site Photos and Diagrams



[Signature]

ACC Staff Signature:

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Site Photos and Diagrams

Project Information		Date:	07/24/2019 Wednesday	Project Number:	2062-163.00
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Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		

Site Photos and Diagrams



Remaining ACM Patching Compound on the Metal Duct & Concrete Flooring around the Bldg B Exterior.

ACC Staff Signature:

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PRE-ABATEMENT CONTAINMENT INSPECTION

Project Information		Date:	07/24/2019 Wednesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		
Contractor:	Conflo Services, Inc. Abatement/Demolition	Supervisor Name:	Mario Ortega		
Type of Work:	<input checked="" type="checkbox"/> Asbestos	<input type="checkbox"/> Lead	<input type="checkbox"/> Mold	Asbestos Work Class:	<input type="checkbox"/> Class I <input checked="" type="checkbox"/> Class II <input type="checkbox"/> Class III
Containment Location:	Building B				

Site Observations	Yes	No	NA	Comments
Is the work area isolated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is access to work area adequately restricted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there a designated area for resting & eating with drinking water available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are OSHA notifications posted outside the work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are EPA/NESHAP notifications posted outside the work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are site conditions or pre-existing damage noted and photographed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are EPA, UN and OSHA waste labels on-site & ready for waste containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are waste dumpsters lined with poly and labeled with OSHA warning signs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Containment Setup	Yes	No	NA	Comments
Are OSHA warning signs (English & Spanish) posted at all entrances to work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is poly sheeting flame retardant?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are 2 layers of poly (6 mil.) on the floor and 2 layers (4 mil.) on the walls?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	One layer.
Is poly sheeting adequately secured to walls and floors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are critical barriers installed over HVAC vents, doors, windows and other openings?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has the HVAC system been shut down, locked out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are drop cloths in place?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are emergency exits identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there adequate lighting (200 watts/1000 square feet)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Day light & emergency lights.
Have temporary power systems equipped with GFCI been installed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Waste load-out path-of-travel protected?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is local ventilation in-place for the work activities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are extension cords safely suspended off the ground?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Negative Pressure	Yes	No	NA	Comments
Has containment passed smoke test & with no stagnant air present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If required, is a manometer installed and functioning properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has the manometer been calibrated to zero?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is negative pressure measuring to project requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has DOP testing of HEPA equipment been performed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Have failed DOP tested equipment been removed or marked to prevent use?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	



PRE-ABATEMENT CONTAINMENT INSPECTION

Project Information		Date:	07/24/2019 Wednesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Emergency and Safety Equipment	Yes	No	NA	Comments
Are SDS sheets on site and accessible?	✓			
Is there and adequate first-aid kit on site?	✓			
Are all fire extinguishers inspected (yearly and monthly) and up-to date?	✓			
Are emergency numbers posted onsite, with routes to the hospital?	✓			
Is a floor plan indicating all exits and major equipment posted?	✓			
Is the main power in the work area shutdown and locked out?	✓			
Are all electrically powered tools and equipment equipped with a waterproof GFCI?	✓			
Does all scaffolding have safety rails, toe-kicks & fall protection if necessary?			✓	

Decontamination Unit	Yes	No	NA	Comments
Chamber 1: Clean Room	Are entrance doors properly constructed?	✓		
	Are ceilings and walls covered with poly?	✓		
	Is the chamber floor free of obstructions and clutter?	✓		
	Are linens and/or towels available?	✓		
	Are the entrance flaps properly constructed?	✓		
Chamber 2: Shower	Is HOT water available?		✓	
	Are soap, shampoo, linens and/or towels available?		✓	
	Is the floor beneath the shower pan properly protected?		✓	
	Does the shower provide a good spray?		✓	
	Is water being filtered through a 3-stage to 1-micrometer filter?		✓	
Chamber 3: Dirty Room	Is there a disposal bag for protective clothing?	✓		
	Is there a drop cloth on the floor?	✓		
	Is there a positive pressure airlock attached from the work area?		✓	
Chamber 4: Equipment Decon	Is there a separate equipment decontamination chamber?		✓	
	Is there a positive pressure airlock attached from the work area?		✓	

Additional Notes and Observations

ACC Staff Signature:

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AIR SAMPLE ANALYSIS FORM

Report To:	Stephen Jackson (OAK); Email: sjackson@accenv.com; Phone: (510) 512-8320						Turnaround Time:	24 Hour				
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.											
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.											
Project Number:	2062-163.00				Analysis Requested							
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)				✓ PCM: NIOSH 7400		TEM: AHERA		TEM: Level II		TEM: 7402 Method	
ACC Onsite Analysis?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Lead		Non-Viable Fungi		Other		Rotameter ID:	HF-02
Sample Number	Lab ID	Sample Type	Date Collected	LPM On LPM Off	Average LPM	Time On Time Off	Total Minutes	Total Liters	Sample Location	Fibers	Fields	
A-503452	ACC-N-10001	Perimeter	07/24/2019 Wednesday	8.76 8.76	8.76	6:50 am 01:25 pm	395	3460.20 L	Building B, Entrance to the Decontamination Unit.	5.5	100	
										<0.001 f/cc		
Released by:					Signature:				Date:	07/24/2019	Time:	
Received by:					Signature:				Date:		Time:	
Comments:												
Laboratory Performing Analysis: EMSL Analytical, Inc.: 464 McCormick Street, San Leandro, California 94577 - (510) 895-3675												

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 Southern California: 1055 Wilshire Boulevard, Suite 1450 • Los Angeles, California 90017 • (213) 353-1240 • Fax (213) 353-1244

DAILY PROJECT REPORT

Project Information				Date:	07/25/2019 Thursday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.						
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.						
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)			Project Manager:	Stephen Jackson (OAK)		

Shift Activities

Containment Setup	Containment Inspection	Bulk Material Removal	Perimeter Air Sampling	Final Detail Cleaning	Waste Load-Out	Final Visual Inspection	Final Air Clearance	Containment Tear-Down	Equipment De-Mobilize	
✓	✓	✓	✓	✓	✓					
Work Area Location			General Debris Removed			Materials Removed (Asbestos & Lead)			Quantity	SF/LF
Building B, inside the Containment.			NA			9"x9" ACM Green floor tiles & Black Adhesive			400	SF
						9"x9" ACM Black floor tiles & Black Adhesive			400	SF
						Loose & peeling Lead Based Paint			50	SF
Total Number of Work Areas:		1	Total Number of Containments:			1	See Notes for Additional Work Areas/ Materials Not Listed Above			
Asbestos Work Class:		Class I		✓ Class II		Class III		Unclassified		

Materials Removed

✓ Asbestos Removal		✓ Lead Removal (After lunch break)		Additional Hazardous Materials	
Contractor Assistance	Roofing Materials	Lead-Based Coating/ Paint	Mercury Vapor Light Tubes	Water Damaged Materials	
Spot Abatement	✓ Miscellaneous Materials	Lead-Containing Coating/ Paint	PCB Ballasts	Mold-Impacted Materials	
Ceiling Materials	Surfacing Materials	Lead Glazed Ceramic Tile	Mercury Thermostat Switches	Indoor Air Quality (IAQ)	
✓ Flooring Materials	TSI/Insulation Materials	✓ Loose & Peeling Lead Paint			
Wall Materials		Lead Sheeting			

Contractor Information

Contractor:	Conflo Services, Inc. Abatement/Demolition				Supervisor Name:	Mario Ortega	
Crew Size	3	Total No. of Personal Samples:	3	8-hour TWA:	2	Excursion:	1
Shift Start Time:	06:00 am	Lunch Time:	10:00 am	Shift Finish Time:	02:30 pm	Total Hours:	8.00

Personal Protective Equipment

✓ ½ Face Respirator	✓ HEPA/ P100 Cartridges	✓ Full Body Disposable Suit	✓ Hard Hat	✓ Gloves
Full Face Respirator	Organic Vapor Cartridges	Disposable Suit w/ Hood	✓ Safety Glasses	✓ Steel Toe/Shank Boots
PAPR	Acid Gas Cartridges	✓ Neon Vest	Hearing Protection	Fall Protection
Supplied Air Respirator	Piggy-back Cartridges	Other:		

DAILY PROJECT REPORT

Project Information		Date:	07/25/2019 Thursday	Project Number:	2062-163.00
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Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Air Monitoring Information

Air Sampling Performed by ACC During Shift?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Total Number of Samples Collected:		1	
# of Samples	Cassette Type	Sample Type	Sample Numbers				
1	PCM	Perimeter	A-503453				
Onsite PCM Analysis Performed?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Name of Analyst:			M.M.Navvab
Laboratory Name, City:							

Engineering Controls & Work Area Setup

<input checked="" type="checkbox"/> Negative Pressure Enclosure	<input checked="" type="checkbox"/> Splash Guards	<input checked="" type="checkbox"/> Three-Stage w/Shower	<input checked="" type="checkbox"/> Building Power	<input checked="" type="checkbox"/> No Odor Mastic Remover
Mini Containment	<input checked="" type="checkbox"/> Drop Sheet	Two-Stage w/Hudson	Temp Power Box	<input checked="" type="checkbox"/> Wet Removal Methods
Clean Cube	<input checked="" type="checkbox"/> View Ports	One-Stage w/Hudson	<input checked="" type="checkbox"/> Contractor Supplied Power	NPU Charcoal Filters
Glove Bags	<input checked="" type="checkbox"/> English Warning Signs	"Z" Flap Air-Locks	<input checked="" type="checkbox"/> GFCI Protection	<input checked="" type="checkbox"/> Fire Extinguishers
<input checked="" type="checkbox"/> Critical Barriers	<input checked="" type="checkbox"/> Spanish Warning Signs	No Decon Required	<input checked="" type="checkbox"/> Temporary Lighting	<input checked="" type="checkbox"/> DOP Test Air Filtration Unit
Poly Walls (min 4-mil.)	Hazard Barrier Tape	Remote Shower	<input checked="" type="checkbox"/> Contractor Supplied Water	<input checked="" type="checkbox"/> DOP Test HEPA Vacuum
Poly Floors (min. 6-mil.)	<input checked="" type="checkbox"/> -0.02" Negative Pressure	Separate Load-Out	NPU Exhaust Location: Outside the building	
Poly Ceiling (min 4-mil.)	-0.04" Negative Pressure	<input checked="" type="checkbox"/> Shut Down HVAC	Other:	

Contractor Work Practice Information

	Yes	No	NA
Have copies of worker documents been received from the contractor in compliance with the scope of work?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are 'OSHA' personal air monitoring sample results being posted daily?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are workers going through the proper decontamination sequence upon leaving the work areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are good safety practices being followed at the job site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are workers demonstrating good "housekeeping" techniques?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is ACM (greater than >1%) being bagged and labeled as asbestos waste?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is water being used continuously to mist air, wet materials during removal and keep waste bags/ materials saturated?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are waste containers properly lined with poly, labeled, sealed, secured/ locked to prevent public access?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Information

Waste Type	Manifest Type	Manifest Number	Date	ID Number:
1.				
2.				
3.				
Transporter 1:				
Transporter 2:				
Designated Facility Name:				



ACTIVITIES LOG

Project Information		Date:	07/25/2019 Thursday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Time: Contractor Activity / Notable Occurrence

What Materials Are Removed - From Where - How Many Workers - Performing What Tasks - Using What Methods?
Any Problems, Visitors, Complaints?

6:00 AM : Conflo Services, Inc. Abatement/Demolition crew of 3 men are onsite.
6:15 AM : Conflo Services, Inc. abatement crew are getting ready to go inside the Bldg B, containment area with PPE to continue the remaining of the interior asbestos abatement by removing remaining of ACM 9"x9" green & Black Floor tiles & the ACM Black Adhesive Inside the containment area. The negative air pressure is achieved & Conflo abatement team have water available for Hudson portable water sprayer inside the Bldg B containment area to follow the wet method & keeping removed ACM flooring wet on the floor & inside waste plastic bags.
8:00 AM : Conflo Services, Inc. project superintendent Daniel Levine visited the job site & reviewed the project work activities in building B, already in progress with Mario Ortega who is Conflo onsite project supervisor. Also he brought water tank container in to the job site as well as other hand tools to expedite the flooring asbestos abatement work activities in the Building B by his abatement team.
9:40 AM : Conflo Services, Inc. abatement crew started the NON- Hazardous waste clear plastic bags load out work activities through the decontamination unit in to the truck.
10:00 AM : Conflo Services, Inc, Team are leaving the Bldg B containment area through the decontamination unit for a lunch break.
11:00 AM : Conflo Services, abatement crew are going back inside the Building B, containment area to continue the remaining of ACM Flooring materials removal which is the remaining of the ACM Black adhesive removal & detail clean up with adhesive remover & with hand tools. The negative air pressure is achieved & Conflo abatement team have been using Hudson water sprayer as the wet method to control the existing dust & keeping removed materials wet on the floor.
According to the Conflo onsite project supervisor, Conflo crew will continue the minor interior Loose & peeling Lead Based Paint stabilization on designated wall surfaces & clean up all remaining paint dust & debris throughout the containment area by the end of this shift.
1:50 PM : Conflo Services, abatement crew have completed the remaining of ACM Flooring Black adhesive removal & the detail clean up. Also all Loose & peeling paint has been removed. Conflo Services, abatement project supervisor asked ACC Onsite technician for the pre visual inspection of the containment area. ACC Project technician visually inspected inside the containment area & inspected the flooring & walls surfaces that Loose & peeling Lead Based Paint were stabilized. ACC Onsite project technician requested for a few locations that Loose & peeling paint on the HVAC metal duct that needs to be stabilized & very minor locations on the slab concrete that ACM Black adhesive remaining residual debris needs to be detailed. The rest of the containment flooring & walls are in an acceptable condition. Conflo onsite project supervisor due to the heat Inside the containment area, is planing to continue & complete the final detail clean up for the flooring remaining residual ACM Black adhesive & the remaining of the Loose & peeling Lead Based Paint stabilization during the morning hours on Friday 07/26/19 (next work shift).
2:00 PM : Conflo Services abatement crew are leaving the containment area through the decontamination unit for today's work shift.
2:30 PM : Conflo Services crew are leaving the job site.

ACC Staff Signature:

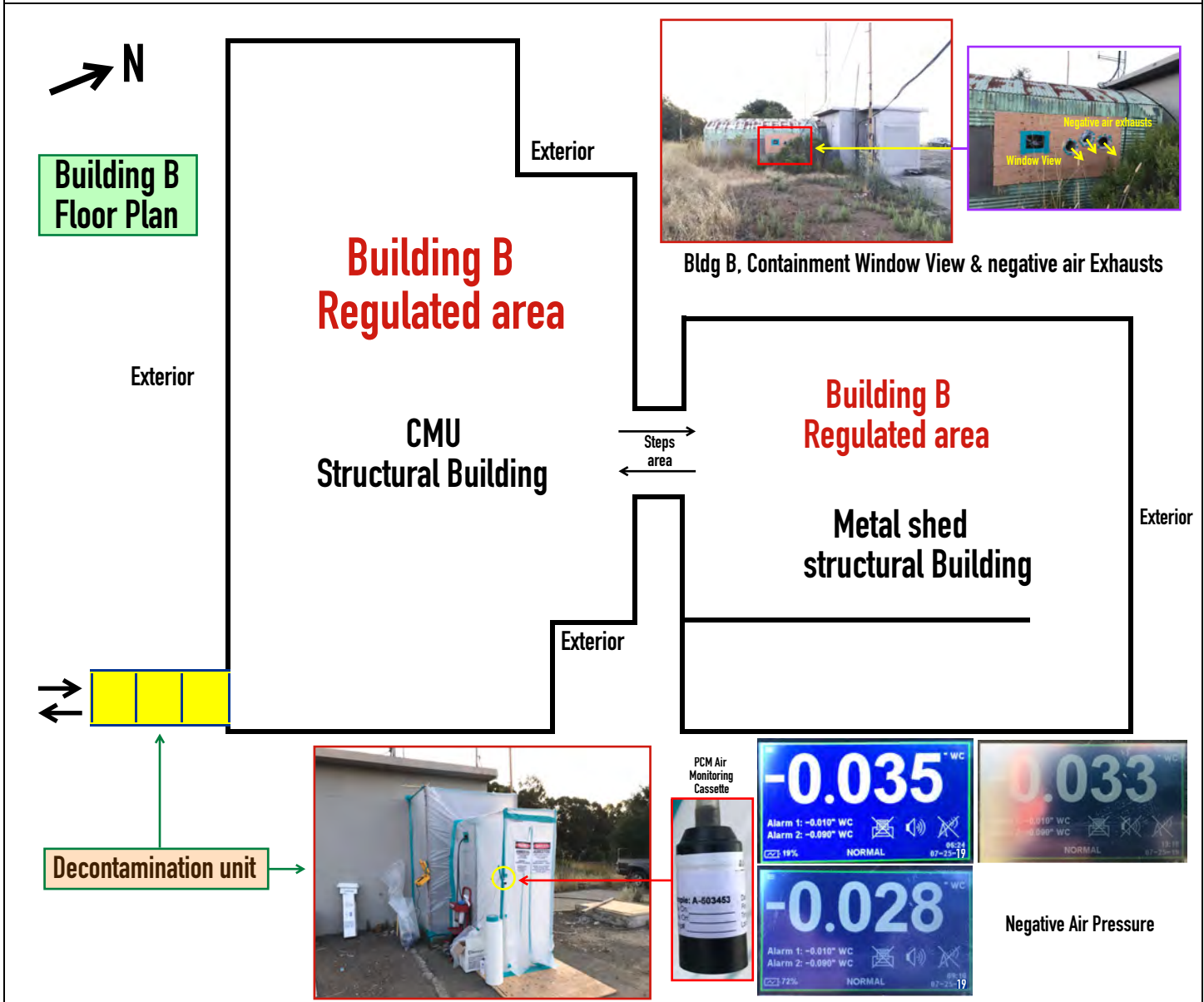
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Site Photos and Diagrams

Project Information		Date:	07/25/2019 Thursday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		

Site Photos and Diagrams



[Signature]

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AIR SAMPLE ANALYSIS FORM

Report To:	Stephen Jackson (OAK); Email: sjackson@accenv.com; Phone: (510) 512-8320						Turnaround Time:	24 Hour				
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.											
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.											
Project Number:	2062-163.00				Analysis Requested							
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)				✓ PCM: NIOSH 7400		TEM: AHERA		TEM: Level II		TEM: 7402 Method	
ACC Onsite Analysis?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Lead		Non-Viable Fungi		Other		Rotameter ID: HF-02	
Sample Number	Lab ID	Sample Type	Date Collected	LPM On LPM Off	Average LPM	Time On Time Off	Total Minutes	Total Liters	Sample Location	Fibers	Fields	
A-503453	ACC-N-10002	Perimeter	07/25/2019 Thursday	8.76 8.76	8.76	6:22 am 01:32 pm	430	3766.80 L	Building B, Entrance to the Decontamination Unit.	5.5	100	
										<0.001 f/cc		
Released by:					Signature:				Date:	07/25/2019	Time:	
Received by:					Signature:				Date:		Time:	
Comments:												
Laboratory Performing Analysis:												

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PRE-ABATEMENT CONTAINMENT INSPECTION

Project Information		Date:	07/25/2019 Thursday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		
Contractor:	Conflo Services, Inc. Abatement/Demolition	Supervisor Name:	Mario Ortega		
Type of Work:	<input checked="" type="checkbox"/> Asbestos	<input checked="" type="checkbox"/> Lead	<input type="checkbox"/> Mold	Asbestos Work Class:	<input type="checkbox"/> Class I <input checked="" type="checkbox"/> Class II <input type="checkbox"/> Class III
Containment Location:	Building B.				

Site Observations	Yes	No	NA	Comments
Is the work area isolated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is access to work area adequately restricted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there a designated area for resting & eating with drinking water available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are OSHA notifications posted outside the work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are EPA/NESHAP notifications posted outside the work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are site conditions or pre-existing damage noted and photographed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are EPA, UN and OSHA waste labels on-site & ready for waste containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are waste dumpsters lined with poly and labeled with OSHA warning signs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Containment Setup	Yes	No	NA	Comments
Are OSHA warning signs (English & Spanish) posted at all entrances to work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is poly sheeting flame retardant?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are 2 layers of poly (6 mil.) on the floor and 2 layers (4 mil.) on the walls?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	One layer.
Is poly sheeting adequately secured to walls and floors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are critical barriers installed over HVAC vents, doors, windows and other openings?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has the HVAC system been shut down, locked out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are drop cloths in place?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are emergency exits identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there adequate lighting (200 watts/1000 square feet)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Day light & emergency lights.
Have temporary power systems equipped with GFCI been installed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Waste load-out path-of-travel protected?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is local ventilation in-place for the work activities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are extension cords safely suspended off the ground?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Negative Pressure	Yes	No	NA	Comments
Has containment passed smoke test & with no stagnant air present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If required, is a manometer installed and functioning properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has the manometer been calibrated to zero?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is negative pressure measuring to project requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has DOP testing of HEPA equipment been performed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Have failed DOP tested equipment been removed or marked to prevent use?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

PRE-ABATEMENT CONTAINMENT INSPECTION

Project Information		Date:	07/25/2019 Thursday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Emergency and Safety Equipment	Yes	No	NA	Comments
Are SDS sheets on site and accessible?	✓			
Is there and adequate first-aid kit on site?	✓			
Are all fire extinguishers inspected (yearly and monthly) and up-to date?	✓			
Are emergency numbers posted onsite, with routes to the hospital?	✓			
Is a floor plan indicating all exits and major equipment posted?	✓			
Is the main power in the work area shutdown and locked out?	✓			
Are all electrically powered tools and equipment equipped with a waterproof GFCI?	✓			
Does all scaffolding have safety rails, toe-kicks & fall protection if necessary?			✓	

Decontamination Unit	Yes	No	NA	Comments
Chamber 1: Clean Room	Are entrance doors properly constructed?	✓		
	Are ceilings and walls covered with poly?	✓		
	Is the chamber floor free of obstructions and clutter?	✓		
	Are linens and/or towels available?	✓		
	Are the entrance flaps properly constructed?	✓		
Chamber 2: Shower	Is HOT water available?		✓	
	Are soap, shampoo, linens and/or towels available?		✓	
	Is the floor beneath the shower pan properly protected?		✓	
	Does the shower provide a good spray?		✓	
	Is water being filtered through a 3-stage to 1-micrometer filter?		✓	
Chamber 3: Dirty Room	Is there a disposal bag for protective clothing?	✓		
	Is there a drop cloth on the floor?	✓		
	Is there a positive pressure airlock attached from the work area?		✓	
Chamber 4: Equipment Decon	Is there a separate equipment decontamination chamber?		✓	
	Is there a positive pressure airlock attached from the work area?		✓	

Additional Notes and Observations



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DAILY PROJECT REPORT

Project Information			Date:	07/26/2019 Friday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.					
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.					
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)			Project Manager:	Stephen Jackson (OAK)	

Shift Activities					General Construction debris					
Containment Setup	Containment Inspection	Bulk Material Removal	Perimeter Air Sampling	Final Detail Cleaning	Waste Load-Out	Final Visual Inspection	Final Air Clearance	Containment Tear-Down	Equipment De-Mobilize	
✓	✓	✓		✓	✓	✓	✓	✓	✓	
Work Area Location			General Debris Removed			Materials Removed (Asbestos & Lead)			Quantity	SF/LF
Building B, inside the Containment.			NA			Residual ACM Black Adhesive.			10	SF
						Loose & peeling Lead Based Paint			4	SF
Building C,			General Construction debris clean up.							
Total Number of Work Areas:		2	Total Number of Containments:		2	See Notes for Additional Work Areas/ Materials Not Listed Above				
Asbestos Work Class:		Class I		✓ Class II		Class III		Unclassified		

Materials Removed				
✓ Asbestos Removal		Lead Removal	Additional Hazardous Materials	
Contractor Assistance	Roofing Materials	Lead-Based Coating/ Paint	Mercury Vapor Light Tubes	Water Damaged Materials
Spot Abatement	✓ Miscellaneous Materials	Lead-Containing Coating/ Paint	PCB Ballasts	Mold-Impacted Materials
Ceiling Materials	Surfacing Materials	Lead Glazed Ceramic Tile	Mercury Thermostat Switches	Indoor Air Quality (IAQ)
✓ Flooring Materials	TSI/Insulation Materials	Loose & Peeling Lead Paint		
Wall Materials		Lead Sheeting		

Contractor Information					
Contractor:	Conflo Services, Inc. Abatement/Demolition			Supervisor Name:	Mario Ortega
Crew Size	3	Total No. of Personal Samples:	3	8-hour TWA:	2
Shift Start Time:	06:00 am	Lunch Time:	10:15 am	Shift Finish Time:	02:30 pm
				Total Hours:	8.00

Personal Protective Equipment					
✓ ½ Face Respirator	✓ HEPA/ P100 Cartridges	✓ Full Body Disposable Suit	✓ Hard Hat	✓ Gloves	
Full Face Respirator	Organic Vapor Cartridges	Disposable Suit w/ Hood	✓ Safety Glasses	✓ Steel Toe/Shank Boots	
PAPR	Acid Gas Cartridges	✓ Neon Vest	Hearing Protection	Fall Protection	
Supplied Air Respirator	Piggy-back Cartridges	Other:			

DAILY PROJECT REPORT

Project Information		Date:	07/26/2019 Friday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
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Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Air Monitoring Information

Air Sampling Performed by ACC During Shift?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Total Number of Samples Collected:		3	
# of Samples	Cassette Type	Sample Type	Sample Numbers				
3	PCM	Clearance	A-503454	A-503455	A-503456		
Onsite PCM Analysis Performed?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Name of Analyst:			M.M.Navvab
Laboratory Name, City:		Onsite RUSH Analyses					

Engineering Controls & Work Area Setup

<input checked="" type="checkbox"/> Negative Pressure Enclosure	Splash Guards	<input checked="" type="checkbox"/> Three-Stage w/Shower	<input checked="" type="checkbox"/> Building Power	<input checked="" type="checkbox"/> No Odor Mastic Remover
Mini Containment	<input checked="" type="checkbox"/> Drop Sheet	Two-Stage w/Hudson	<input checked="" type="checkbox"/> Temp Power Box	<input checked="" type="checkbox"/> Wet Removal Methods
Clean Cube	<input checked="" type="checkbox"/> View Ports	One-Stage w/Hudson	<input checked="" type="checkbox"/> Contractor Supplied Power	NPU Charcoal Filters
Glove Bags	<input checked="" type="checkbox"/> English Warning Signs	"Z" Flap Air-Locks	<input checked="" type="checkbox"/> GFCI Protection	<input checked="" type="checkbox"/> Fire Extinguishers
<input checked="" type="checkbox"/> Critical Barriers	<input checked="" type="checkbox"/> Spanish Warning Signs	No Decon Required	<input checked="" type="checkbox"/> Temporary Lighting	<input checked="" type="checkbox"/> DOP Test Air Filtration Unit
Poly Walls (min 4-mil.)	Hazard Barrier Tape	Remote Shower	<input checked="" type="checkbox"/> Contractor Supplied Water	<input checked="" type="checkbox"/> DOP Test HEPA Vacuum
Poly Floors (min. 6-mil.)	<input checked="" type="checkbox"/> -0.02" Negative Pressure	Separate Load-Out	NPU Exhaust Location: Outside the building	
Poly Ceiling (min 4-mil.)	-0.04" Negative Pressure	<input checked="" type="checkbox"/> Shut Down HVAC	Other:	

Contractor Work Practice Information

	Yes	No	NA
Have copies of worker documents been received from the contractor in compliance with the scope of work?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are 'OSHA' personal air monitoring sample results being posted daily?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are workers going through the proper decontamination sequence upon leaving the work areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are good safety practices being followed at the job site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are workers demonstrating good "housekeeping" techniques?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is ACM (greater than >1%) being bagged and labeled as asbestos waste?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is water being used continuously to mist air, wet materials during removal and keep waste bags/ materials saturated?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are waste containers properly lined with poly, labeled, sealed, secured/ locked to prevent public access?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Information

Waste Type	Manifest Type	Manifest Number	Date	ID Number:
1.				
2.				
3.				
Transporter 1:				
Transporter 2:				
Designated Facility Name:				

ACTIVITIES LOG

Project Information		Date:	07/26/2019 Friday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Time: Contractor Activity / Notable Occurrence

What Materials Are Removed - From Where - How Many Workers - Performing What Tasks - Using What Methods?
Any Problems, Visitors, Complaints?

6:00 AM : Conflo Services, Inc. Abatement/Demolition crew of 3 men are onsite.

6:30 AM : Conflo Services, Inc. abatement crew are getting ready to go inside the Bldg B, containment area with PPE to continue & complete the remaining of the residual ACM Black Adhesive remaining on the floor Inside the containment area. The negative air pressure is achieved & Conflo Services abatement team also are going to stabilize the remaining loose & peeling Lead Based Paint on the Metal Duct Inside the containment area.

7:00 AM : Conflo Services, abatement crew have completed the remaining residual ACM Flooring Black adhesive removal & the detail clean up. Also all Loose & peeling Lead Based paint remaining on the HVAC metal duct has been removed & stabilized. ACC Project technician visually inspected inside the containment area & inspected the flooring & surfaces that Loose & peeling paint were removed & stabilized & cleaned. The final visual inspection is completed & is passed. ACC Onsite project technician gave OK to Conflo Services onsite project supervisor to go ahead & encapsulate Inside the containment area. The negative air pressure is achieved .

7:10 AM : The final encapsulation has been completed & Conflo Services abatement crew are leaving the containment through the decontamination unit & to go to building C to start the pre cleaning & the General Construction Debris removal & the load out from the building C interior spaces to the outside & inside the Conflo Services large truck which has brought in to the job site for today's work shift.

7:30 AM : ACC Project technician have started the final PCM Clearance inside the building B, containment area.

7:45 AM : Conflo Services, abatement crew are going to remove the remaining ACM Patching materials on the concrete flooring outside the building B as well as ACM Roof Patching compound (<1SF) on the building B roof next to the light pole.

8:30 AM : Conflo Services, abatement crew have completed the removal of the ACM Patching materials on the concrete flooring & on the Metal Duct as well as the roof Patching compound removal & the detail clean up on the Building B, roof area around the light pole. ACC Onsite technician visually inspected locations & the spot that ACM Patching materials were removed & the final visual inspection is completed & is passed.

9:00 AM : Conflo Services, Inc. crew of 3 with PPE are continuing the General Construction debris cleaning in the building C interior & loading the General Construction Debris (Large Salvage Items) from the Building C, Interior in to the Conflo Services Company truck.

10:00 AM : ACC Project technician have completed the final PCM Clearance inside the building B containment area. All 3 PCM Air Sampling cassettes has been analyzed onsite & Clearance is completed & is passed. ACC Onsite project technician gave the passed PCM Clearance verbal test results to Conflo Services onsite project supervisor for the regulated area plastic tear down & the demobilization from the building B.

10:15 AM : Conflo Services, Inc. Team are leaving the Bldg C, Operation work area & they are going for a lunch break.

10:45 AM : ACC Onsite technician notified Jason Garrison from GSA Alameda County regarding the Building B, passed Clearance test results through the text message.

11:15 AM : Conflo Services, Inc. abatement crew are back from the lunch break. Crew with PPE are continuing General Construction Debris removal inside the building C. The Conflo company truck with loaded salvage materials has left the job site.

12:30 PM : Conflo Services, abatement crew (2 men) have started to remove the plastic & decontamination unit & demobilizing their equipments (negative Air Machines, extension cords, temporary electrical boxes, Etc) from inside the building B to the outside.

12:50 PM : Conflo large load out truck is back in to the job site. & crew size back to three total.

1:15 PM : The building B, plastic tear down & the demobilization is completed.

1:30 PM : Conflo Services, crew have started the decontamination unit plastic set up for the 1st half of the building C interior by the entrance that has ACM 9"x9" floor tiles & the ACM Black adhesive. The larger space of the building C will be out of the asbestos abatement containment area due to there is no ACM Floor tiles & ACM Black adhesive in this area & following the General Construction Debris clean up & the load out, this interior space of the building C, will be the regulated area for only Lead Based Paint Loose & Peeling Paint stabilization.

2:00 PM : Conflo Services, abatement crew are moving their equipments in to the portable metal storage area.

2:30 Conflo Services crew are leaving the job site.



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PRE-ABATEMENT CONTAINMENT INSPECTION

Project Information		Date:	07/26/2019	Friday	Project Number:	2062-163.00	
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.						
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.						
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)				
Contractor:	Conflo Services, Inc. Abatement/Demolition	Supervisor Name:	Mario Ortega				
Type of Work:	<input checked="" type="checkbox"/> Asbestos	<input checked="" type="checkbox"/> Lead	<input type="checkbox"/> Mold	Asbestos Work Class:	<input type="checkbox"/> Class I	<input checked="" type="checkbox"/> Class II	<input type="checkbox"/> Class III
Containment Location:	Building B.						

Site Observations	Yes	No	NA	Comments
Is the work area isolated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is access to work area adequately restricted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there a designated area for resting & eating with drinking water available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are OSHA notifications posted outside the work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are EPA/NESHAP notifications posted outside the work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are site conditions or pre-existing damage noted and photographed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are EPA, UN and OSHA waste labels on-site & ready for waste containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are waste dumpsters lined with poly and labeled with OSHA warning signs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Containment Setup	Yes	No	NA	Comments
Are OSHA warning signs (English & Spanish) posted at all entrances to work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is poly sheeting flame retardant?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are 2 layers of poly (6 mil.) on the floor and 2 layers (4 mil.) on the walls?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	One layer.
Is poly sheeting adequately secured to walls and floors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are critical barriers installed over HVAC vents, doors, windows and other openings?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has the HVAC system been shut down, locked out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are drop cloths in place?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are emergency exits identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there adequate lighting (200 watts/1000 square feet)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Day light & emergency lights.
Have temporary power systems equipped with GFCI been installed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Waste load-out path-of-travel protected?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is local ventilation in-place for the work activities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are extension cords safely suspended off the ground?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Negative Pressure	Yes	No	NA	Comments
Has containment passed smoke test & with no stagnant air present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If required, is a manometer installed and functioning properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has the manometer been calibrated to zero?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is negative pressure measuring to project requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has DOP testing of HEPA equipment been performed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Have failed DOP tested equipment been removed or marked to prevent use?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

PRE-ABATEMENT CONTAINMENT INSPECTION

Project Information		Date:	07/26/2019	Friday	Project Number:	2062-163.00
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Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)			

Emergency and Safety Equipment	Yes	No	NA	Comments
Are SDS sheets on site and accessible?	✓			
Is there and adequate first-aid kit on site?	✓			
Are all fire extinguishers inspected (yearly and monthly) and up-to date?	✓			
Are emergency numbers posted onsite, with routes to the hospital?	✓			
Is a floor plan indicating all exits and major equipment posted?	✓			
Is the main power in the work area shutdown and locked out?	✓			
Are all electrically powered tools and equipment equipped with a waterproof GFCI?	✓			
Does all scaffolding have safety rails, toe-kicks & fall protection if necessary?			✓	

Decontamination Unit	Yes	No	NA	Comments
Chamber 1: Clean Room	Are entrance doors properly constructed?	✓		
	Are ceilings and walls covered with poly?	✓		
	Is the chamber floor free of obstructions and clutter?	✓		
	Are linens and/or towels available?	✓		
	Are the entrance flaps properly constructed?	✓		
Chamber 2: Shower	Is HOT water available?		✓	
	Are soap, shampoo, linens and/or towels available?		✓	
	Is the floor beneath the shower pan properly protected?		✓	
	Does the shower provide a good spray?		✓	
	Is water being filtered through a 3-stage to 1-micrometer filter?		✓	
Chamber 3: Dirty Room	Is there a disposal bag for protective clothing?	✓		
	Is there a drop cloth on the floor?	✓		
	Is there a positive pressure airlock attached from the work area?		✓	
Chamber 4: Equipment Decon	Is there a separate equipment decontamination chamber?		✓	
	Is there a positive pressure airlock attached from the work area?		✓	

Additional Notes and Observations



ACC Staff Signature:

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AIR SAMPLE ANALYSIS FORM

Report To:	Stephen Jackson (OAK); Email: sjackson@accenv.com; Phone: (510) 512-8320						Turnaround Time:	On-Site [RUSH]				
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.											
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.											
Project Number:	2062-163.00				Analysis Requested							
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)				✓ PCM: NIOSH 7400		TEM: AHERA		TEM: Level II		TEM: 7402 Method	
ACC Onsite Analysis?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Lead		Non-Viable Fungi		Other		Rotameter ID:	HF-02
Sample Number	Lab ID	Sample Type	Date Collected	LPM On LPM Off	Average LPM	Time On Time Off	Total Minutes	Total Liters	Sample Location	Fibers	Fields	
A-503454	ACC-N-10003	Clearance	07/26/2019 Friday	13.68 13.68	13.68	7:26 am 09:46 am	140	1915.20 L	Building B, Inside the containment, (CMU structure), Middle Section.	5.5 0.001 f/cc	100	
A-50355	ACC-N-10004	Clearance	07/26/2019 Friday	13.68 13.68	13.68	07:28 am 09:48 am	140	1915.20 L	Building B, Inside the containment, (Metal Shed structure), Middle-west Section.	5.5 0.001 f/cc	100	
A-503456	ACC-N-10005	Clearance	07/26/2019 Friday	13.68 13.68	13.68	07:30 am 09:50 am	140	1915.20 L	Building B, Inside the containment, (Metal Shed structure), Middle-east Section.	5.5 0.001 f/cc	100	
No Sample												
No Sample												
No Sample												
No Sample												
Released by:					Signature:				Date:	07/26/2019	Time:	
Received by:					Signature:				Date:		Time:	
Comments:												
Laboratory Performing Analysis:												

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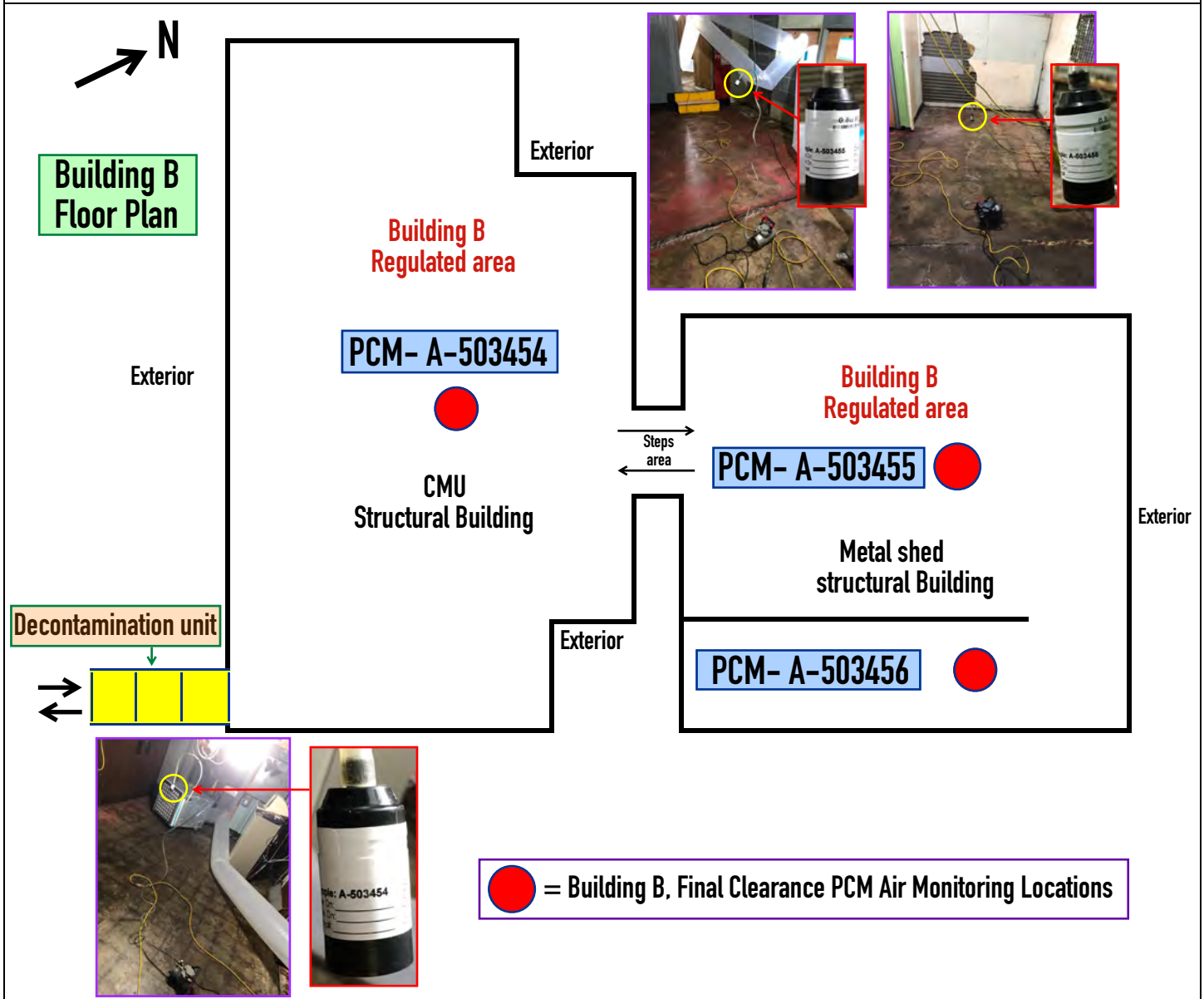
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Site Photos and Diagrams



Project Information		Date:	07/26/2019 Friday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		

Site Photos and Diagrams



[Signature]

ACC Staff Signature:

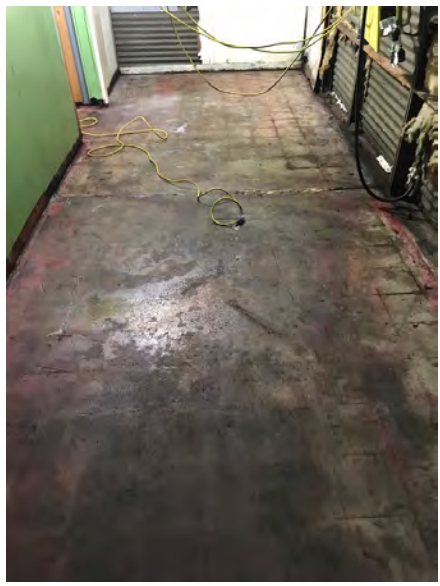
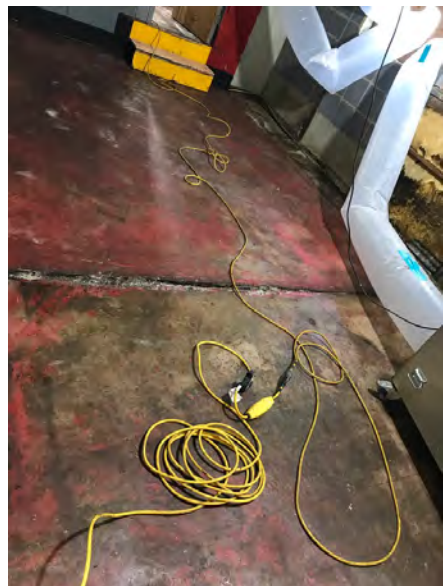
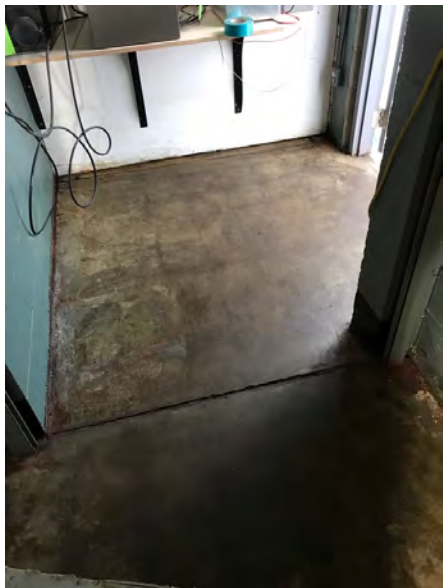
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Site Photos and Diagrams

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Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		

Site Photos and Diagrams



**Completion of the
ACM 9"x9" Green &
Black Floor tiles &
ACM Black
Adhesive asbestos
abatement in the
Building B**

M. Massoud Navvab

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FINAL VISUAL INSPECTION

Project Information			Date:	07/26/2019 Friday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.					
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.					
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)		Project Manager:	Stephen Jackson (OAK)		
Contractor:	Conflo Services, Inc. Abatement/Demolition		Supervisor Name:	Mario Ortega		
Type of Work:	<input checked="" type="checkbox"/> Asbestos	<input checked="" type="checkbox"/> Lead	<input type="checkbox"/> Mold	Time of Inspection:	07:15 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
Materials Removed:	ACM 9"x9" Green & Black Floor tiles & ACM Black Adhesive plus interior Loose & peeling Lead based paint.					
Containment Location:	Building B Interior.					
Visual Inspection:	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail	Was the Contractor's Supervisor present during the inspection?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

If Failed, please give a short explanation as to why:					
Please check off any possible contributing factors:			<input type="checkbox"/> Debris Remaining	<input type="checkbox"/> Bulk Material Remaining	<input type="checkbox"/> Inadequate Equipment
Photos of deficiencies collected?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Inadequate Lighting		

Contractor's Certification		Owners Representative Certification	
In accordance with Project Decontamination requirements for project, the abatement contractor hereby certifies they have visually inspected ALL work area surfaces and have found no visible dust, debris or residue.		ACC Environmental Consultants, Inc., hereby certifies that we have accompanied the Contractor on the final visual inspection and verified the inspection to be thorough, and to the best of our knowledge, the Contractor's adjacent statement is a true and honest one.	
Signature:		Signature:	
Print Name:	Mario Ortega	Print Name:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)
Print Title:	Project Supervisor	Print Title:	Project Technician
Company:	Conflo Services, Inc. Abatement/Demolition	Company:	ACC Environmental Consultants, Inc.

Clearance Sampling Summary

Sample Date	Sample Number	Sample Location	Total Volume in Liters (L)	Result	Pass/Fail
07/26/2019	A-503454	Building B, Inside the containment, (CMU structure), Middle Section.	1915.20 L	0.001 f/cc	PASS
07/26/2019	A-503455	Building B, Inside the containment, (Metal Shed structure), Middle-west Section.	1915.20 L	0.001 f/cc	PASS
07/26/2019	A-503456	Building B, Inside the containment, (Metal Shed structure), Middle-east Section.	1915.20 L	0.001 f/cc	PASS
	No Sample				
	No Sample				
	No Sample				
	No Sample				

Air Sampling Passed?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Visual Inspection Only		
Clearance Criteria:	<input checked="" type="checkbox"/> PCM (<0.01 f/cc)	<input type="checkbox"/> TEM AHERA (<70s/mm ²)	<input type="checkbox"/> Mold	Other:	
Comments:					



FINAL VISUAL INSPECTION

Project Information				Date:	07/26/2019 Friday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.						
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.						
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)			Project Manager:	Stephen Jackson (OAK)		
Contractor:	Conflo Services, Inc. Abatement/Demolition			Supervisor Name:	Mario Ortega		
Type of Work:	<input checked="" type="checkbox"/> Asbestos	<input checked="" type="checkbox"/> Lead	<input type="checkbox"/> Mold	Time of Inspection:	08:30 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM		
Materials Removed:	Bldg B, ACM Exterior Roof Patching Compound. Exterior ACM Patching materials on the exterior concrete & metal duct.						
Containment Location:	Building B Exterior.						
Visual Inspection:	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail	Was the Contractor's Supervisor present during the inspection?			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

If Failed, please give a short explanation as to why:			
Please check off any possible contributing factors:		<input type="checkbox"/> Debris Remaining	<input type="checkbox"/> Bulk Material Remaining
Photos of deficiencies collected?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Inadequate Lighting	<input type="checkbox"/> Inadequate Equipment

Contractor's Certification		Owners Representative Certification	
In accordance with Project Decontamination requirements for project, the abatement contractor hereby certifies they have visually inspected ALL work area surfaces and have found no visible dust, debris or residue.		ACC Environmental Consultants, Inc., hereby certifies that we have accompanied the Contractor on the final visual inspection and verified the inspection to be thorough, and to the best of our knowledge, the Contractor's adjacent statement is a true and honest one.	
Signature:		Signature:	
Print Name:	Mario Ortega	Print Name:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)
Print Title:	Project Supervisor	Print Title:	Project Technician
Company:	Conflo Services, Inc. Abatement/Demolition	Company:	ACC Environmental Consultants, Inc.

Clearance Sampling Summary

Sample Date	Sample Number	Sample Location	Total Volume in Liters (L)	Result	Pass/Fail
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				

Air Sampling Passed?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Visual Inspection Only		
Clearance Criteria:	PCM (<0.01 f/cc)	TEM AHERA (<70s/mm ²)	<input type="checkbox"/> Mold	<input type="checkbox"/> Other:
Comments:				

Site Photos and Diagrams

Project Information		Date:	07/26/2019 Friday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		

Site Photos and Diagrams



Building B, Exterior



Remaining ACM Patching Compound on the Metal Duct & Concrete Flooring around the Bldg B Exterior.

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Site Photos and Diagrams

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Site Photos and Diagrams



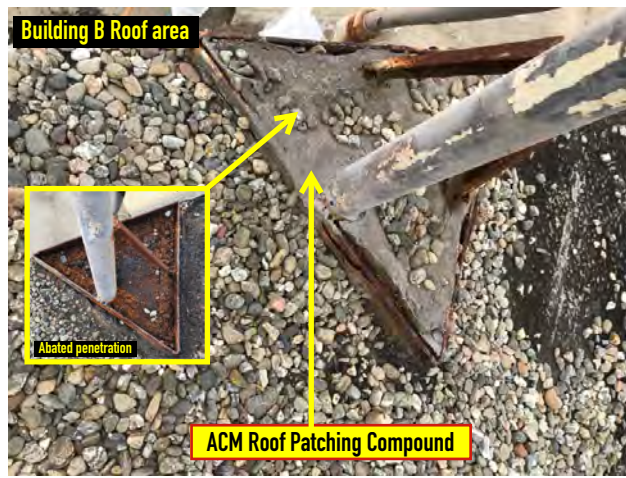
**Completion of the
Loose & Peeling
Lead Based Paint
Removal &
stabilization in the
Building B**



Building B, Exterior



Exterior concrete flooring after ACM Patching compound removal & detail clean up



Building B Roof area

Abated penetration

ACM Roof Patching Compound

M. Massoud Navvab

ACC Staff Signature:

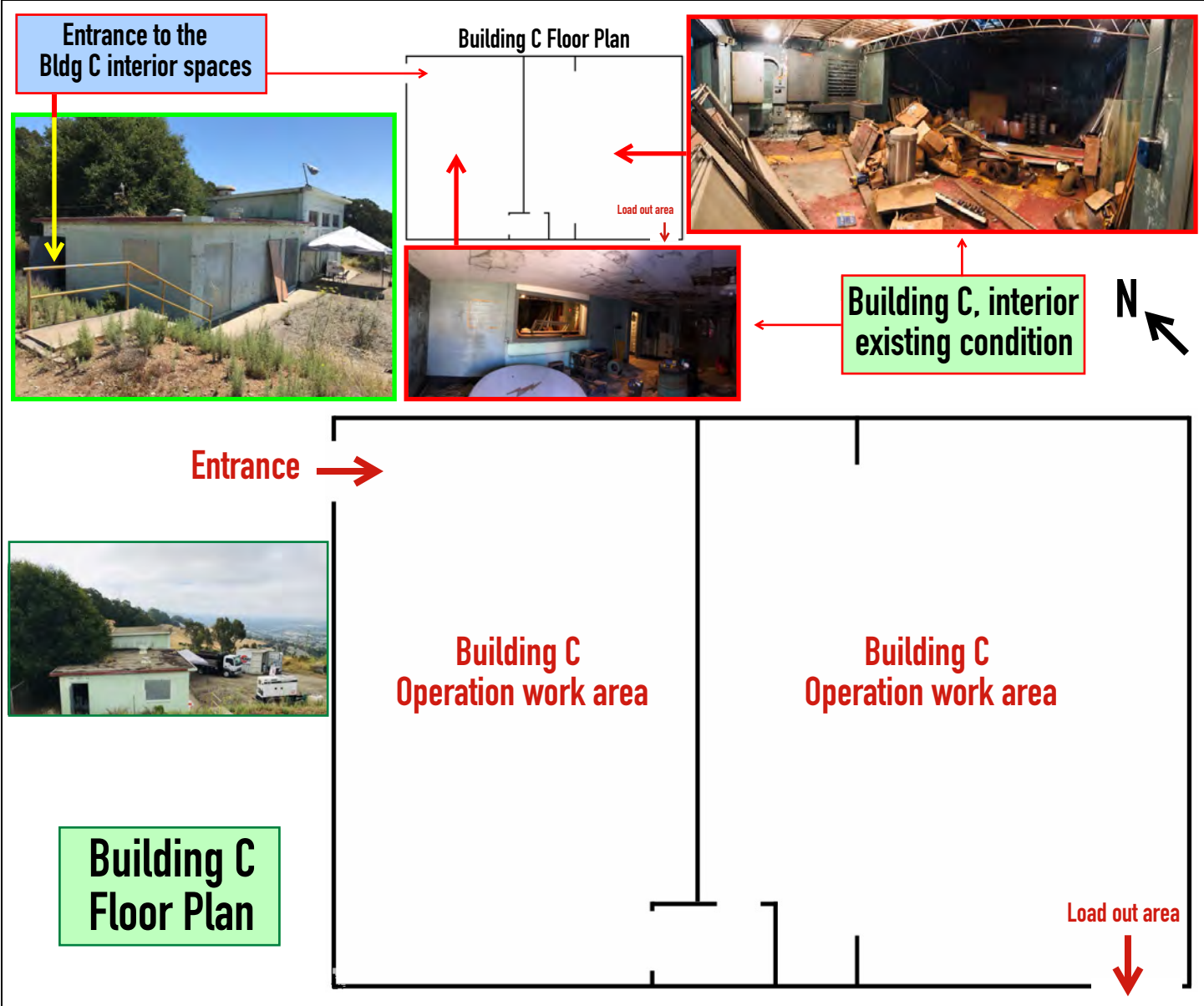
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Site Photos and Diagrams

Project Information		Date:	07/26/2019 Friday	Project Number:	2062-163.00
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Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		

Site Photos and Diagrams



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Site Photos and Diagrams

Project Information		Date:	07/26/2019 Friday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
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Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		

Site Photos and Diagrams



Building C Exterior

Building C, interior existing condition



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Site Photos and Diagrams

Project Information		Date:	07/24/2019 Friday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		

Building C, interior existing condition

Site Photos and Diagrams



[Signature]

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Site Photos and Diagrams

Project Information		Date:	07/26/2019 Friday	Project Number:	2062-163.00
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Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		

Building C, interior existing condition

Site Photos and Diagrams



M. Massoud Navvab

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DAILY PROJECT REPORT

Project Information			Date:	07/29/2019 Monday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.					
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.					
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)			Project Manager:	Stephen Jackson (OAK)	

Shift Activities

Containment Setup	Containment Inspection	Bulk Material Removal	Perimeter Air Sampling	Final Detail Cleaning	Waste Load-Out	Final Visual Inspection	Final Air Clearance	Containment Tear-Down	Equipment De-Mobilize	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Work Area Location			General Debris Removed			Materials Removed (Asbestos & Lead)			Quantity	SF/LF
Building C,inside the Containment. Only the 1st Half of the building interior.			NA			ACM 9"x9" Green Floor tiles & Black Adhesive			600	SF
						Loose & peeling Lead Based Paint			30	SF
Building C,			General Construction debris clean up. Roof tree branches.							
Total Number of Work Areas:		2	Total Number of Containments:			2	See Notes for Additional Work Areas/ Materials Not Listed Above			
Asbestos Work Class:		Class I			✓ Class II		Class III		Unclassified	

Materials Removed

✓ Asbestos Removal		✓ Lead Removal		Additional Hazardous Materials	
Contractor Assistance	Roofing Materials	Lead-Based Coating/ Paint	Mercury Vapor Light Tubes	Water Damaged Materials	
Spot Abatement	✓ Miscellaneous Materials	Lead-Containing Coating/ Paint	PCB Ballasts	Mold-Impacted Materials	
Ceiling Materials	Surfacing Materials	Lead Glazed Ceramic Tile	Mercury Thermostat Switches	Indoor Air Quality (IAQ)	
✓ Flooring Materials	TSI/Insulation Materials	✓ Loose & Peeling Lead Paint			
Wall Materials		Lead Sheeting			

Contractor Information

Contractor:	Conflo Services, Inc. Abatement/Demolition			Supervisor Name:	Mario Ortega		
Crew Size	3	Total No. of Personal Samples:	3	8-hour TWA:	2	Excursion:	1
Shift Start Time:	06:00 am	Lunch Time:	10:15 am	Shift Finish Time:	02:30 pm	Total Hours:	8.00

Personal Protective Equipment

✓ ½ Face Respirator	✓ HEPA/ P100 Cartridges	✓ Full Body Disposable Suit	✓ Hard Hat	✓ Gloves
Full Face Respirator	Organic Vapor Cartridges	Disposable Suit w/ Hood	✓ Safety Glasses	✓ Steel Toe/Shank Boots
PAPR	Acid Gas Cartridges	✓ Neon Vest	Hearing Protection	Fall Protection
Supplied Air Respirator	Piggy-back Cartridges	Other:		

DAILY PROJECT REPORT

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Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Air Monitoring Information

Air Sampling Performed by ACC During Shift?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Total Number of Samples Collected:		3	
# of Samples	Cassette Type	Sample Type	Sample Numbers				
1	PCM	Perimeter	A-503457				
2	PCM	Clearance	A-503458	A-503459			
Onsite PCM Analysis Performed?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Name of Analyst:			M.M.Navvab
Laboratory Name, City:		Onsite RUSH Analyses					

Engineering Controls & Work Area Setup

<input checked="" type="checkbox"/> Negative Pressure Enclosure	Splash Guards	<input checked="" type="checkbox"/> Three-Stage w/Shower	<input checked="" type="checkbox"/> Building Power	<input checked="" type="checkbox"/> No Odor Mastic Remover
Mini Containment	<input checked="" type="checkbox"/> Drop Sheet	Two-Stage w/Hudson	<input checked="" type="checkbox"/> Temp Power Box	<input checked="" type="checkbox"/> Wet Removal Methods
Clean Cube	<input checked="" type="checkbox"/> View Ports	One-Stage w/Hudson	<input checked="" type="checkbox"/> Contractor Supplied Power	NPU Charcoal Filters
Glove Bags	<input checked="" type="checkbox"/> English Warning Signs	"Z" Flap Air-Locks	<input checked="" type="checkbox"/> GFCI Protection	<input checked="" type="checkbox"/> Fire Extinguishers
<input checked="" type="checkbox"/> Critical Barriers	<input checked="" type="checkbox"/> Spanish Warning Signs	No Decon Required	<input checked="" type="checkbox"/> Temporary Lighting	<input checked="" type="checkbox"/> DOP Test Air Filtration Unit
Poly Walls (min 4-mil.)	Hazard Barrier Tape	Remote Shower	<input checked="" type="checkbox"/> Contractor Supplied Water	<input checked="" type="checkbox"/> DOP Test HEPA Vacuum
Poly Floors (min. 6-mil.)	<input checked="" type="checkbox"/> -0.02" Negative Pressure	Separate Load-Out	NPU Exhaust Location: Outside the building	
Poly Ceiling (min 4-mil.)	-0.04" Negative Pressure	<input checked="" type="checkbox"/> Shut Down HVAC	Other:	

Contractor Work Practice Information

	Yes	No	NA
Have copies of worker documents been received from the contractor in compliance with the scope of work?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are 'OSHA' personal air monitoring sample results being posted daily?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are workers going through the proper decontamination sequence upon leaving the work areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are good safety practices being followed at the job site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are workers demonstrating good "housekeeping" techniques?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is ACM (greater than >1%) being bagged and labeled as asbestos waste?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is water being used continuously to mist air, wet materials during removal and keep waste bags/ materials saturated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are waste containers properly lined with poly, labeled, sealed, secured/ locked to prevent public access?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Information

Waste Type	Manifest Type	Manifest Number	Date	ID Number:
1.				
2.				
3.				
Transporter 1:				
Transporter 2:				
Designated Facility Name:				

ACTIVITIES LOG

Project Information		Date:	07/29/2019 Monday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Time: Contractor Activity / Notable Occurrence

What Materials Are Removed - From Where - How Many Workers - Performing What Tasks - Using What Methods?
Any Problems, Visitors, Complaints?

6:00 AM : Conflo Services, Inc. Abatement/Demolition crew of 3 men are onsite.

6:30 AM : Conflo Services, Inc. abatement crew are getting ready to go inside the Bldg C, north section only to complete the containment area plastic set up.

7:00 AM : The containment plastic set up including critical barriers & decontamination unit & the negative air machine set up is completed & ACC Onsite project technician visually inspected the containment & the decontamination unit & critical barriers & the negative air pressure (-0.036"H2O Hg). The containment inspection is completed & is passed. ACC Onsite project technician gave OK to Conflo onsite project supervisor to go ahead & start the flooring asbestos abatement & complete the Loose & peeling paint removal & stabilization on interior CMU walls inside the containment area only.

7:15 AM : Conflo Services, Inc. crew are going inside the containment with PPE (Suit, 1/2 face respirators & Etc.) to start & complete the ACM 9"x9" Green fFloor tiles & ACM Black Adhesive removal & the detail clean up on the floor Inside the containment area & remove & stabilize the Lead Based Paint on CMU walls. The negative air pressure is achieved & Conflo Services abatement team also are using the portable Hudson water sprayer as the wet method to control the existing dust & keeping removed materials wet on the floor & inside the waste clear plastic bags.

8:30 AM : Conflo Services, abatement crew have completed the 9"x9" green floor tiles removal & they are continuing with the remaining of ACM Flooring Black adhesive removal & the detail clean up & removing & stabilizing Lead Based Paint on interior CMU walls. The negative air pressure is achieved .

9:30 AM : The final ACM residual Black adhesive Detail clean u& CMU walls Loose & peeling paint removal & stabilization is completed. Conflo Services, abatement crew are continuing the load out waste clear sealed plastic bags from the Building C, Containment area through the decontamination unit.

9:40 AM : The Final detail clean up & Lead Based Loose & peeling removal & stabilization is completed. ACC Project technician visually inspected inside the containment area & inspected the flooring area. All 9"x9" Green Floor tiles & Black adhesive has been removed & the final detail clean up has been completed. Also all Loose & peeling Lead Based Paint on CMU walls interior only inside the 1st half containment area are removed & the surfaces of the CMU walls has been cleaned & stabilized. The final visual inspection is completed & is passed. ACC Onsite project technician gave OK to Conflo Services onsite project supervisor to go ahead & encapsulate Inside the containment area. The negative air pressure is achieved .

9:50 AM : The final encapsulation has been completed & Conflo Services abatement crew have left the containment area through the decontamination unit.

10:05 AM : ACC Project technician have started the final PCM Clearance inside the building C (1st Half) containment area.

10:15 AM : Conflo Services, Inc. Team are leaving the Bldg C, Operation work area & they are going for a lunch break.

11:05 PM : Conflo Services, Inc. abatement crew are back from the lunch break. Conflo Services, Inc. crew of 3 with PPE (Suit, 1/2 face respirators, Etc) are going to continue the General Construction debris cleaning in the building C interior (2nd half) & loading the General Construction Debris from the Building C, 2nd Half Interior in to the Conflo Services Company truck which has parked next to the Building C, by the Load out area.

11:30 AM : Conflo large truck left the job site to take General Construction Debris waste out of the job site.

12:10 : Conflo crew of two are on the roof of Building C to inspect the roofing materials scope of work as well as to cut down tree branches that is on the roof to be able to have access to the remaining of ACM roof pathing compound that were covered by the tree branches & are around the roof perimeter area.

12:45 PM : ACC Project technician have completed the final PCM Clearance inside the building C, 1st Half containment area. One perimeter PCM Air Sample & 2 PCM Clearance Air Sampling cassettes has been analyzed onsite & Clearance is completed & is passed. ACC Onsite project technician gave the passed PCM Clearance verbal test results to Conflo Services onsite project supervisor for the regulated area plastic tear down for the 1st half of the building C.

12:50 PM : Sheriff department (6 Personnels) are onsite to check the equipments inside the Bldg B.

1:00 PM : Conflo crew have completed the tree branches saw cutting & they left the roof area of the building C.

1:10 PM : Conflo large truck is back in to the job site.

1:15 PM : All Conflo Services team of 3 men are continuing working inside the Building C, 2nd Half & they are continuing the General Construction Debris clean up & the load out activities in to the Conflo large truck.

1:45 PM : All Sheriff department team who were working in the Building B, are leaving the job site.

2:00 PM : Conflo Services, abatement crew are moving their equipments in to the portable metal storage area.

2:30 PM : Conflo Services crew are leaving the job site.



ACC Staff Signature:

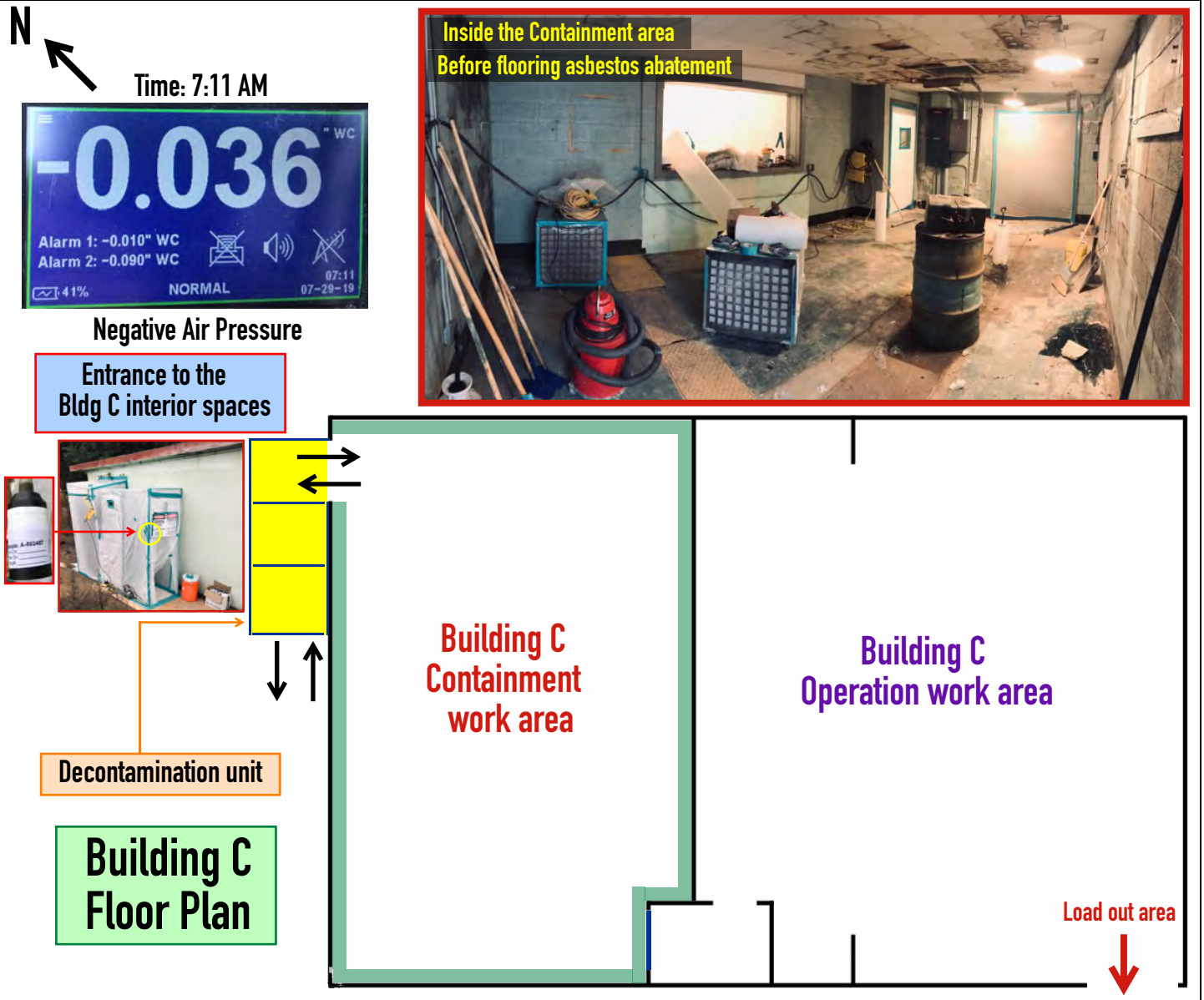
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Site Photos and Diagrams

Project Information		Date:	07/29/2019 Monday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		

Site Photos and Diagrams



[Signature]

ACC Staff Signature:

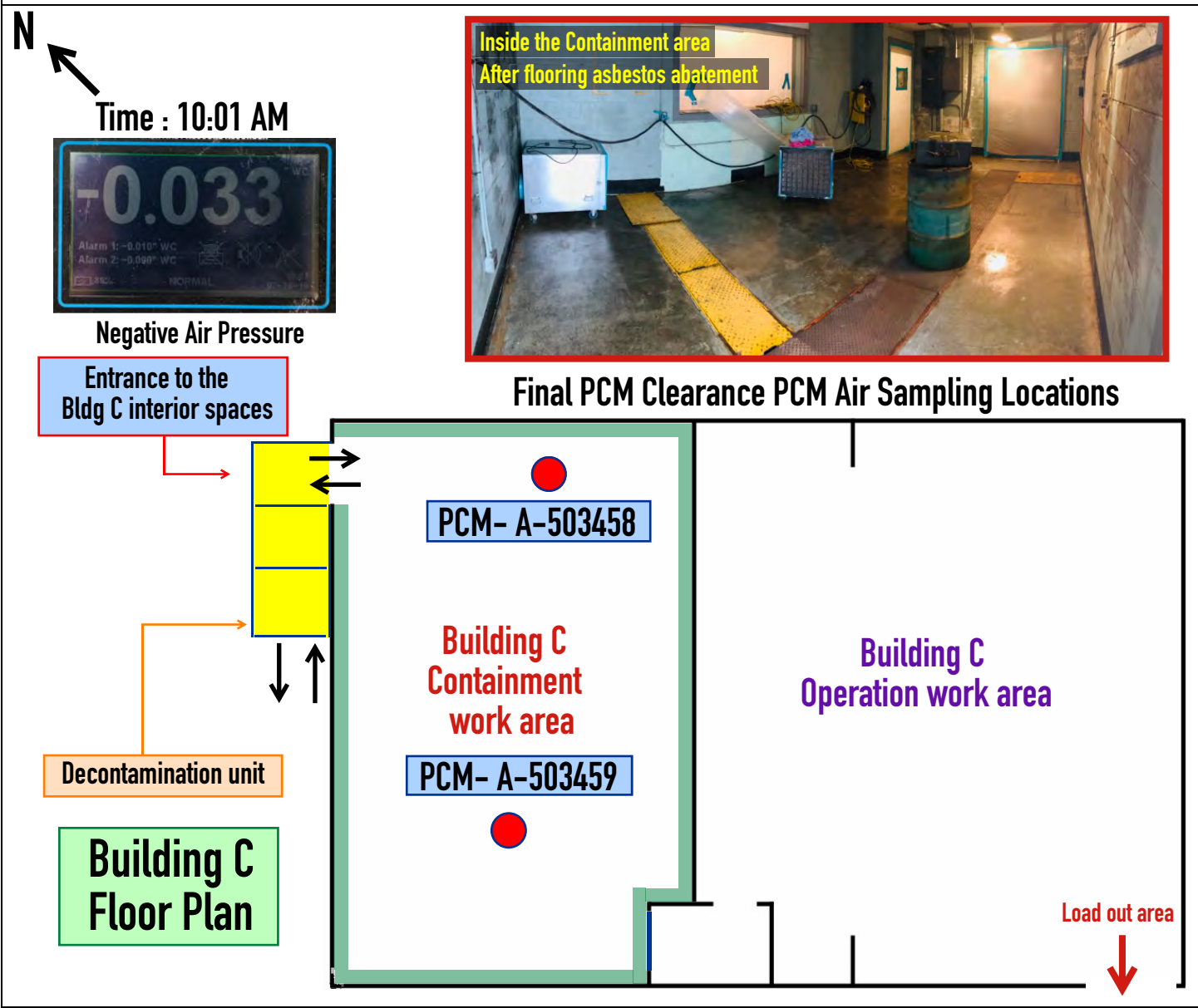
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Site Photos and Diagrams



[Signature]

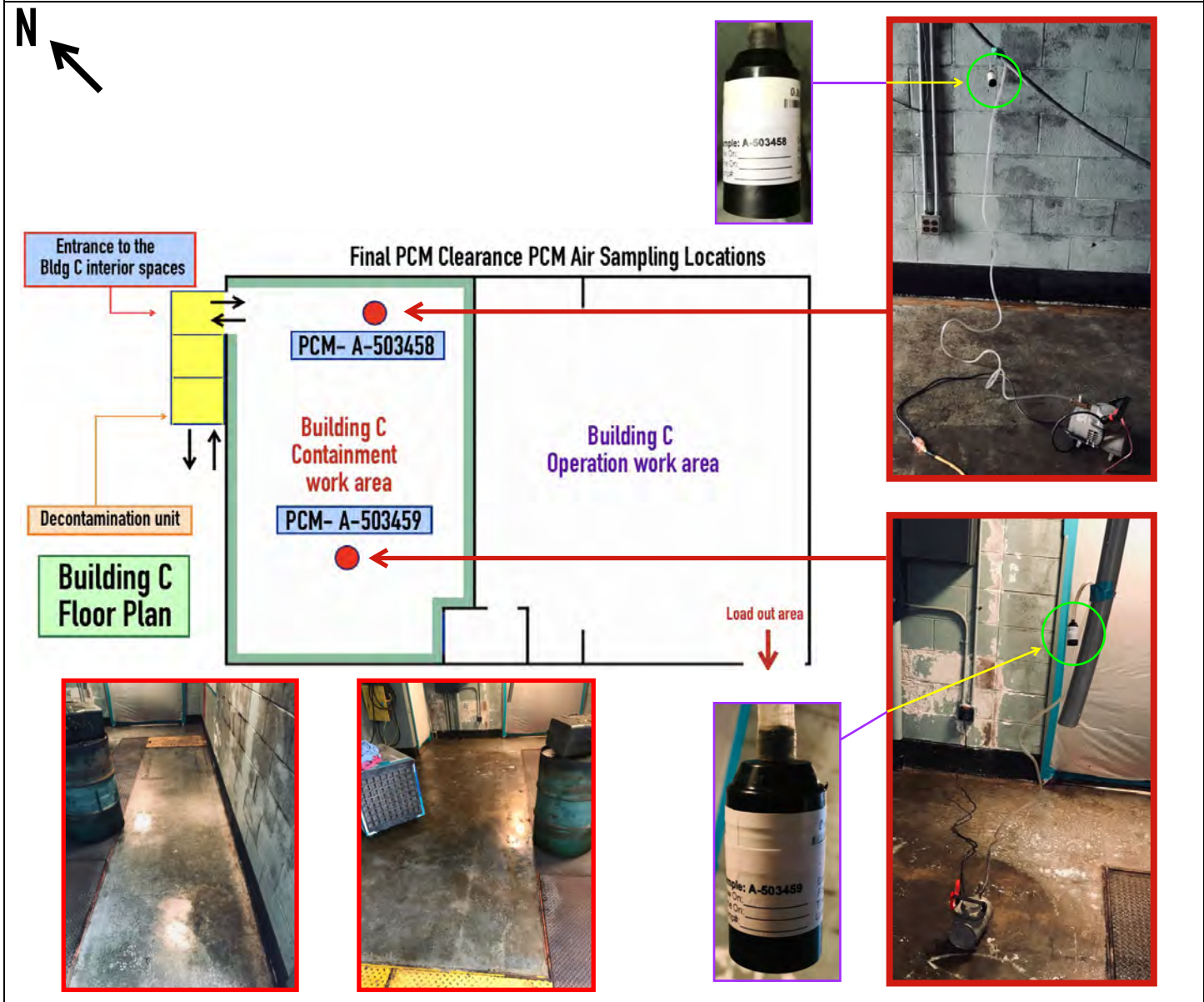
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Site Photos and Diagrams



[Signature]

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Site Photos and Diagrams



Building C Roof area with ACM Roof Patching Compound & ACM Transit Panels

M. Massoud Navvab

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AIR SAMPLE ANALYSIS FORM

Report To:	Stephen Jackson (OAK); Email: sjackson@accenv.com; Phone: (510) 512-8320						Turnaround Time:	On-Site [RUSH]				
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.											
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.											
Project Number:	2062-163.00				Analysis Requested							
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)				✓ PCM: NIOSH 7400		TEM: AHERA		TEM: Level II		TEM: 7402 Method	
ACC Onsite Analysis?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Lead		Non-Viable Fungi		Other		Rotameter ID:	HF-02
Sample Number	Lab ID	Sample Type	Date Collected	LPM On LPM Off	Average LPM	Time On Time Off	Total Minutes	Total Liters	Sample Location	Fibers	Fields	
A-503457	ACC-N-10006	Perimeter	07/29/2019 Monday	8.76 8.76	8.76	7:10 am 09:45 am	155	1357.80 L	Building C, Entrance to the decontamination unit by the building C, main entrance.	5.5 0.001 f/cc	100	
A-50358	ACC-N-10007	Clearance	07/29/2019 Monday	13.68 13.68	13.68	09:56 am 12:16 pm	140	1915.20 L	Building C, Inside the containment, (CMU structure), North Section.	5.5 0.001 f/cc	100	
A-503459	ACC-N-10008	Clearance	07/29/2019 Monday	13.68 13.68	13.68	09:58 am 12:18 pm	140	1915.20 L	Building C, Inside the containment, (CMU structure), South Section.	5.5 0.001 f/cc	100	
No Sample												
No Sample												
No Sample												
No Sample												
Released by:					Signature:				Date:	07/29/2019	Time:	
Received by:					Signature:				Date:		Time:	
Comments:												
Laboratory Performing Analysis:												

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FINAL VISUAL INSPECTION

Project Information			Date:	07/29/2019 Monday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.					
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.					
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)		Project Manager:	Stephen Jackson (OAK)		
Contractor:	Conflo Services, Inc. Abatement/Demolition		Supervisor Name:	Mario Ortega		
Type of Work:	<input checked="" type="checkbox"/> Asbestos	<input checked="" type="checkbox"/> Lead	Mold	Time of Inspection:	09:40 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
Materials Removed:	ACM 9"x9" Green & ACM Black Adhesive & Loose & peeling Lead Based Paint.					
Containment Location:	Building C, 1st Half of the Interior space where the main entrance is located.					
Visual Inspection:	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail	Was the Contractor's Supervisor present during the inspection?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

If Failed, please give a short explanation as to why:					
Please check off any possible contributing factors:			Debris Remaining	Bulk Material Remaining	Inadequate Equipment
Photos of deficiencies collected?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Inadequate Lighting			

Contractor's Certification		Owners Representative Certification	
In accordance with Project Decontamination requirements for project, the abatement contractor hereby certifies they have visually inspected ALL work area surfaces and have found no visible dust, debris or residue.		ACC Environmental Consultants, Inc., hereby certifies that we have accompanied the Contractor on the final visual inspection and verified the inspection to be thorough, and to the best of our knowledge, the Contractor's adjacent statement is a true and honest one.	
Signature:		Signature:	
Print Name:	Mario Ortega	Print Name:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)
Print Title:	Project Supervisor	Print Title:	Project Technician
Company:	Conflo Services, Inc. Abatement/Demolition	Company:	ACC Environmental Consultants, Inc.

Clearance Sampling Summary

Sample Date	Sample Number	Sample Location	Total Volume in Liters (L)	Result	Pass/Fail
07/29/2019	A-503458	Building C, Inside the containment, (CMU structure), North Section.	1915.20 L	0.001 f/cc	PASS
07/29/2019	A-503459	Building C, Inside the containment, (CMU structure), South Section.	1915.20 L	0.001 f/cc	PASS
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				

Air Sampling Passed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Visual Inspection Only	X= Visual Inspection only is for the Completion of Loose & Peeling Lead Based Paint removal & stabilization for the 1st Half of the Building C interior.		
Clearance Criteria:	<input checked="" type="checkbox"/> PCM (<0.01 f/cc)	TEM AHERA (<70s/mm ²)	Mold	Other:	
Comments:					

PRE-ABATEMENT CONTAINMENT INSPECTION

Project Information		Date:	07/29/2019 Monday	Project Number:	2062-163.00
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Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		
Contractor:	Conflo Services, Inc. Abatement/Demolition	Supervisor Name:	Mario Ortega		
Type of Work:	<input checked="" type="checkbox"/> Asbestos	<input checked="" type="checkbox"/> Lead	<input type="checkbox"/> Mold	Asbestos Work Class:	<input type="checkbox"/> Class I <input checked="" type="checkbox"/> Class II <input type="checkbox"/> Class III
Containment Location:	Building C, 1st Half of the building where ACM 9"x9" green floor tiles & ACM Black adhesive is scheduled for abatement.				

Site Observations	Yes	No	NA	Comments
Is the work area isolated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is access to work area adequately restricted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there a designated area for resting & eating with drinking water available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are OSHA notifications posted outside the work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are EPA/NESHAP notifications posted outside the work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are site conditions or pre-existing damage noted and photographed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are EPA, UN and OSHA waste labels on-site & ready for waste containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are waste dumpsters lined with poly and labeled with OSHA warning signs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Containment Setup	Yes	No	NA	Comments
Are OSHA warning signs (English & Spanish) posted at all entrances to work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is poly sheeting flame retardant?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are 2 layers of poly (6 mil.) on the floor and 2 layers (4 mil.) on the walls?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	One layer.
Is poly sheeting adequately secured to walls and floors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are critical barriers installed over HVAC vents, doors, windows and other openings?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has the HVAC system been shut down, locked out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are drop cloths in place?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are emergency exits identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there adequate lighting (200 watts/1000 square feet)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Day light & emergency lights.
Have temporary power systems equipped with GFCI been installed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Waste load-out path-of-travel protected?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is local ventilation in-place for the work activities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are extension cords safely suspended off the ground?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Negative Pressure	Yes	No	NA	Comments
Has containment passed smoke test & with no stagnant air present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If required, is a manometer installed and functioning properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has the manometer been calibrated to zero?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is negative pressure measuring to project requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has DOP testing of HEPA equipment been performed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Have failed DOP tested equipment been removed or marked to prevent use?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

PRE-ABATEMENT CONTAINMENT INSPECTION

Project Information		Date:	07/29/2019 Monday	Project Number:	2062-163.00
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Emergency and Safety Equipment	Yes	No	NA	Comments
Are SDS sheets on site and accessible?	✓			
Is there and adequate first-aid kit on site?	✓			
Are all fire extinguishers inspected (yearly and monthly) and up-to date?	✓			
Are emergency numbers posted onsite, with routes to the hospital?	✓			
Is a floor plan indicating all exits and major equipment posted?	✓			
Is the main power in the work area shutdown and locked out?	✓			
Are all electrically powered tools and equipment equipped with a waterproof GFCI?	✓			
Does all scaffolding have safety rails, toe-kicks & fall protection if necessary?			✓	

Decontamination Unit	Yes	No	NA	Comments
Chamber 1: Clean Room	Are entrance doors properly constructed?	✓		
	Are ceilings and walls covered with poly?	✓		
	Is the chamber floor free of obstructions and clutter?	✓		
	Are linens and/or towels available?	✓		
	Are the entrance flaps properly constructed?	✓		
Chamber 2: Shower	Is HOT water available?		✓	
	Are soap, shampoo, linens and/or towels available?		✓	
	Is the floor beneath the shower pan properly protected?		✓	
	Does the shower provide a good spray?		✓	
	Is water being filtered through a 3-stage to 1-micrometer filter?		✓	
Chamber 3: Dirty Room	Is there a disposal bag for protective clothing?	✓		
	Is there a drop cloth on the floor?	✓		
	Is there a positive pressure airlock attached from the work area?		✓	
Chamber 4: Equipment Decon	Is there a separate equipment decontamination chamber?		✓	
	Is there a positive pressure airlock attached from the work area?		✓	

Additional Notes and Observations



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DAILY PROJECT REPORT

Project Information		Date:	07/30/2019 Tuesday	Project Number:	2062-163.00
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Shift Activities										
Containment Setup	Containment Inspection	Bulk Material Removal	Perimeter Air Sampling	Final Detail Cleaning	Waste Load-Out	Final Visual Inspection	Final Air Clearance	Containment Tear-Down	Equipment De-Mobilize	
✓	✓	✓		✓	✓	✓			✓	
Work Area Location			General Debris Removed			Materials Removed (Asbestos & Lead)			Quantity	SF/LF
Building C, Interior & the roof area			General Construction debris clean up from the interior. Roof exterior metal flashing around lower roof perimeter area. Drywall ceiling, ceiling tiles.			Asbestos Containing roof Patching Compound.			200	SF
						Exterior transit panels on the lower roof area.			100	SF
Total Number of Work Areas:			1	Total Number of Containments:			1	See Notes for Additional Work Areas/ Materials Not Listed Above		
Asbestos Work Class:		Class I		✓ Class II		Class III		Unclassified		

Materials Removed					
✓ Asbestos Removal		Lead Removal		Additional Hazardous Materials	
Contractor Assistance	✓ Roofing Materials	Lead-Based Coating/ Paint		Mercury Vapor Light Tubes	
✓ Spot Abatement	✓ Miscellaneous Materials	Lead-Containing Coating/ Paint		PCB Ballasts	
Ceiling Materials	Surfacing Materials	Lead Glazed Ceramic Tile		Mercury Thermostat Switches	
Flooring Materials	TSI/Insulation Materials	Loose & Peeling Lead Paint			
✓ Wall Materials		Lead Sheeting			
				Water Damaged Materials	
				Mold-Impacted Materials	
				Indoor Air Quality (IAQ)	

Contractor Information							
Contractor:			Conflo Services, Inc. Abatement/Demolition		Supervisor Name:	Mario Ortega	
Crew Size	3	Total No. of Personal Samples:	3	8-hour TWA:	2	Excursion:	1
Shift Start Time:	06:00 am	Lunch Time:	10:00 am	Shift Finish Time:	02:30 pm	Total Hours:	8.00

Personal Protective Equipment					
✓ ½ Face Respirator	✓ HEPA/ P100 Cartridges	✓ Full Body Disposable Suit	✓ Hard Hat	✓ Gloves	
Full Face Respirator	Organic Vapor Cartridges	Disposable Suit w/ Hood	✓ Safety Glasses	✓ Steel Toe/Shank Boots	
PAPR	Acid Gas Cartridges	✓ Neon Vest	Hearing Protection	Fall Protection	
Supplied Air Respirator	Piggy-back Cartridges	Other:			

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Air Monitoring Information

Air Sampling Performed by ACC During Shift?		Yes	<input checked="" type="checkbox"/> No	Total Number of Samples Collected:		0
# of Samples	Cassette Type	Sample Type	Sample Numbers			
Onsite PCM Analysis Performed?		Yes	<input checked="" type="checkbox"/> No	Name of Analyst:		
Laboratory Name, City:						

Engineering Controls & Work Area Setup

Negative Pressure Enclosure	Splash Guards	Three-Stage w/Shower	<input checked="" type="checkbox"/>	Building Power	<input checked="" type="checkbox"/>	No Odor Mastic Remover
Mini Containment	Drop Sheet	Two-Stage w/Hudson	<input checked="" type="checkbox"/>	Temp Power Box	<input checked="" type="checkbox"/>	Wet Removal Methods
Clean Cube	View Ports	One-Stage w/Hudson	<input checked="" type="checkbox"/>	Contractor Supplied Power		NPU Charcoal Filters
Glove Bags	English Warning Signs	"Z" Flap Air-Locks	<input checked="" type="checkbox"/>	GFCI Protection	<input checked="" type="checkbox"/>	Fire Extinguishers
Critical Barriers	Spanish Warning Signs	No Decon Required	<input checked="" type="checkbox"/>	Temporary Lighting		DOP Test Air Filtration Unit
Poly Walls (min 4-mil.)	Hazard Barrier Tape	Remote Shower	<input checked="" type="checkbox"/>	Contractor Supplied Water	<input checked="" type="checkbox"/>	DOP Test HEPA Vacuum
Poly Floors (min. 6-mil.)	-0.02" Negative Pressure	Separate Load-Out		NPU Exhaust Location:		
Poly Ceiling (min 4-mil.)	-0.04" Negative Pressure	<input checked="" type="checkbox"/> Shut Down HVAC		Other:		

Contractor Work Practice Information

	Yes	No	NA
Have copies of worker documents been received from the contractor in compliance with the scope of work?	<input checked="" type="checkbox"/>		
Are 'OSHA' personal air monitoring sample results being posted daily?			<input checked="" type="checkbox"/>
Are workers going through the proper decontamination sequence upon leaving the work areas?	<input checked="" type="checkbox"/>		
Are good safety practices being followed at the job site?	<input checked="" type="checkbox"/>		
Are workers demonstrating good "housekeeping" techniques?	<input checked="" type="checkbox"/>		
Is ACM (greater than >1%) being bagged and labeled as asbestos waste?			<input checked="" type="checkbox"/>
Is water being used continuously to mist air, wet materials during removal and keep waste bags/ materials saturated?			<input checked="" type="checkbox"/>
Are waste containers properly lined with poly, labeled, sealed, secured/ locked to prevent public access?			<input checked="" type="checkbox"/>

Waste Information

Waste Type	Manifest Type	Manifest Number	Date	ID Number:
1.				
2.				
3.				
Transporter 1:				
Transporter 2:				
Designated Facility Name:				

ACTIVITIES LOG

Project Information		Date:	07/30/2019 Tuesday	Project Number:	2062-163.00
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Time: Contractor Activity / Notable Occurrence	
What Materials Are Removed - From Where - How Many Workers - Performing What Tasks - Using What Methods? Any Problems, Visitors, Complaints?	
<p>6:00 AM : Conflo Services, Inc. Abatement/Demolition crew of 3 men are onsite.</p> <p>6:30 AM : Conflo Services, Inc. abatement crew are getting ready to go inside the Bldg C, South interior (larger section) with PPE (Suit, 1/2 face respirators & Etc.) to continue the General Construction Debris clean up & the load out.</p> <p>7:15 AM : Conflo Services, Inc. crew have completed the General Construction Debris clean up inside the building C, (larger section). Majorities of the salvaged materials are loaded in to the Conflo large truck.</p> <p>7:30 AM : Conflo Services, Inc. crew are going on the Higher roof area of the building C to start removing the large metal roof exhaust flue ducts to be able to access in to the roof open penetrations edges underneath to remove the roof Patching compound around each large rectangle open penetrations & bagging removed materials in waste clear plastic bags.</p> <p>8:15 AM : Conflo Services, Inc. crew have completed the roof Patching Compound removal & the detail clean up on the higher roof area & all removed materials are bagged in clear waste plastic bags. ACC Onsite technician visually inspected the higher roof area. The final visual inspection is completed & is passed. Conflo Services, Inc. crew are going on the lower roof area of the building C, to start the Roof Patching Compound removal on the lower roof perimeter area & bagging removed residual debris in waste clear plastic bags & wrapping larger pieces in plastic sheeting. The ground level around of the lower roof perimeter has been covered with plastic.</p> <p>9:00 AM : Conflo Services, Inc. crew have completed the roof Patching Compound removal & the detail clean up on the lower roof perimeter area & all removed materials are bagged in clear waste plastic bags & larger pieces are wrapped with plastic sheeting & duct tape & loaded in to the ground level. Conflo Services, Inc. crew are continuing with removal of the screws on exterior transit panels on the wall between the lower roof & the Higher roof area of the building C. The ground level around of the lower roof perimeter which was covered with plastic, are cleaned & plastic sheeting has been removed.</p> <p>10:00 AM : Conflo Services, Inc. crew are off the roof area & following the decontamination, they are leaving the Bldg C, Operation work area & they are going for a lunch break.</p> <p>11:00 AM : Conflo Services, Inc. abatement crew are back from the lunch break. Two workers with PPE (Suit, 1/2 face respirators, Etc) are going back on the lower roof area to continue the exterior transit removal on the wall between the lower roof & the Higher Roof area. The only way to access the lower roof is through the extension ladder.</p> <p>11:30 AM : The exterior transit removal on the wall between the lower roof & the Higher Roof area is completed & all removed ACM Transit panels are bagged in waste clear plastic bags. Abatement crew are continuing loading down all waste bags out of the lower roof to inside the Building C where all NON-Hazardous waste clear plastic bags are stored.</p> <p>11:45 AM : ACC Onsite technician visually inspected the Lower roof area. All perimeter ACM Roof Patching Compound & ACM Transit panels are removed. The final visual inspection is completed & is passed.</p> <p>12:00 PM : Jason Garrison from GSA Alameda County is onsite & visiting the job site.</p> <p>12:30 PM : Conflo Services, Inc. abatement crew are starting to demolish NON-ACM & NON- Painted 1'x1' ceiling tiles that are glued on the drywall ceiling with drywall ceiling inside the building C 1st half area. Conflo abatement crew have water Airless sprayer as the wet method to control the existing General Construction debris dust inside the operation work area. Crew also bagging removed debris materials on the flooring. The slab concrete flooring in the ceiling demolition area has been covered with plastic sheeting.</p> <p>12:40 PM : Jason Garrison from Alameda County GSA left the job site.</p> <p>12:50 PM : Ceiling demolition inside the 1st half of the building C is in progress. Crew are continuing the wet method for dust control.</p> <p>1:30 PM : Conflo Services, Inc. abatement crew have completed the ceiling demolition inside the 1st half of the building C & all removed materials are bagged in waste clear plastic bags & plastic sheeting is removed from the flooring.</p> <p>1:35 PM : Conflo Services, Inc. abatement crew are going on the lower roof to seal the wall open penetrations where exterior transit panels were removed.</p> <p>1:45 PM : The open penetrations where exterior transit panels were removed is sealed with plastic & duct tape.</p> <p>2:00 PM : Conflo Services, abatement crew are moving their equipments in to the portable metal storage area.</p> <p>2:30 PM : Conflo Services crew are leaving the job site.</p>	



ACC Staff Signature:

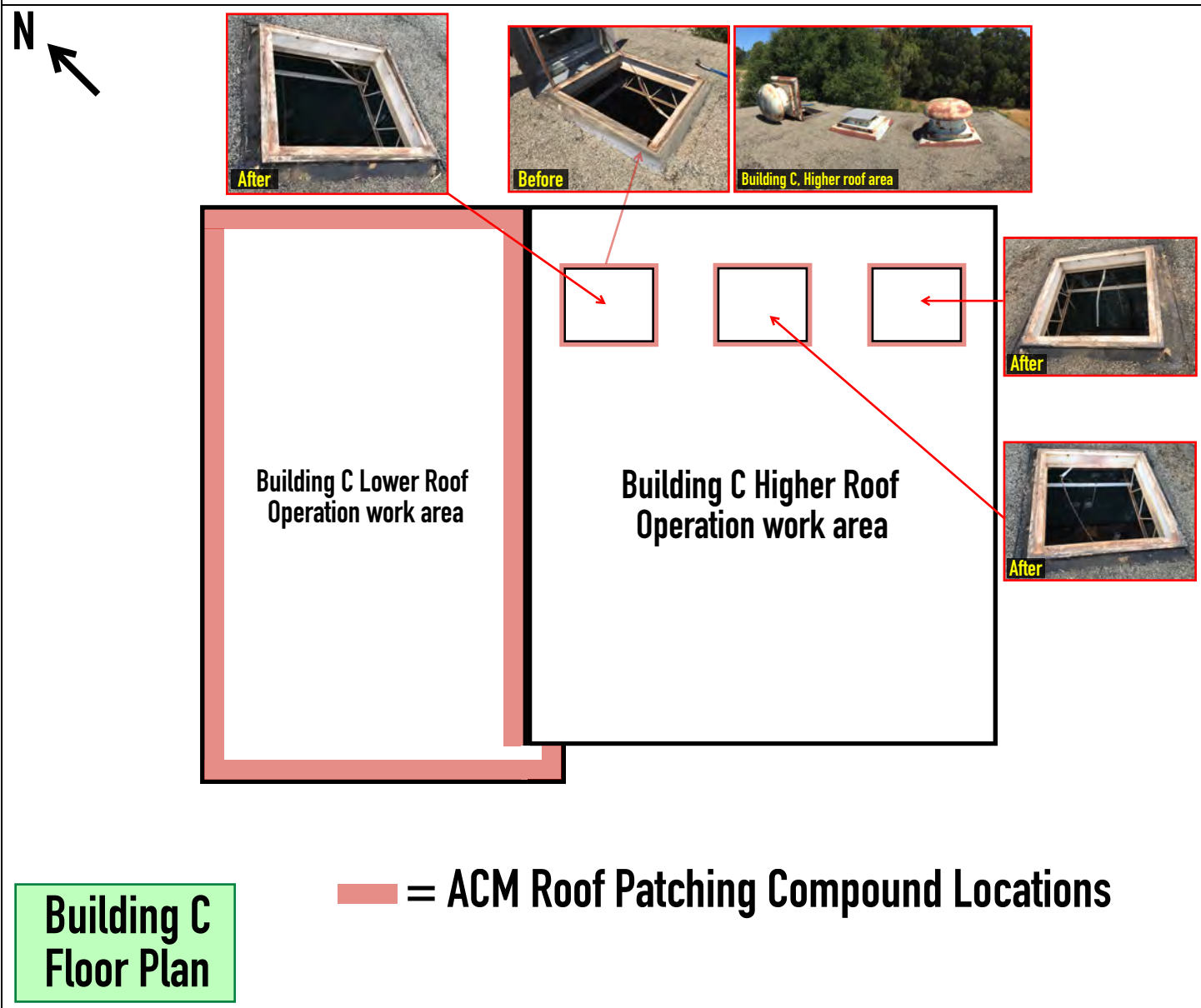
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Southern California: 1055 Wilshire Boulevard, Suite 1450 • Los Angeles, California 90017 • (213) 353-1240 • Fax (213) 353-1244

Site Photos and Diagrams

Project Information		Date:	07/30/2019 Tuesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		

Site Photos and Diagrams



[Signature]

ACC Staff Signature:

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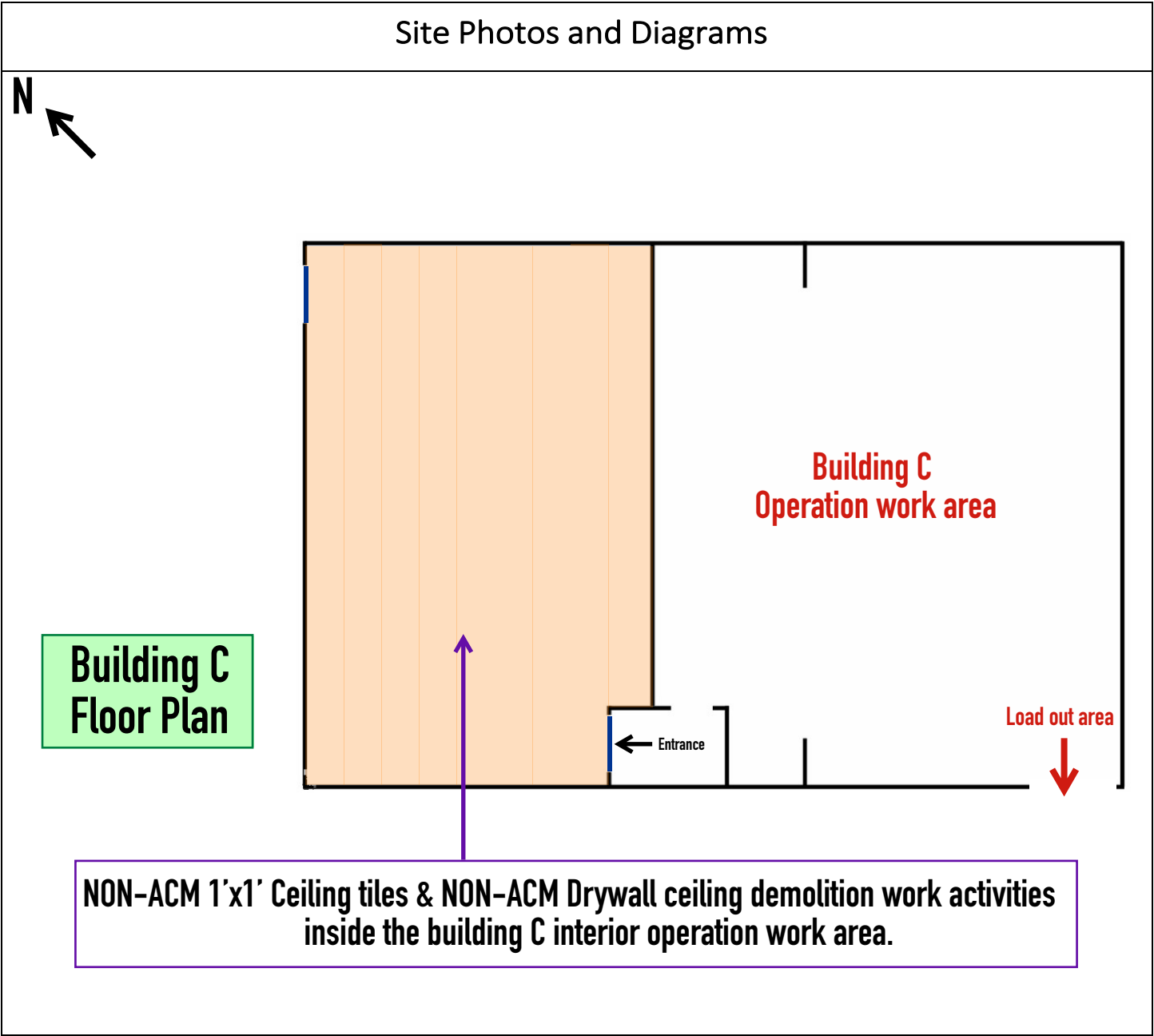
Site Photos and Diagrams



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Site Photos and Diagrams

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Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		



[Signature]

ACC Staff Signature:

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FINAL VISUAL INSPECTION

Project Information				Date:	07/30/2019 Tuesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.						
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.						
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)			Project Manager:	Stephen Jackson (OAK)		
Contractor:	Conflo Services, Inc. Abatement/Demolition			Supervisor Name:	Mario Ortega		
Type of Work:	<input checked="" type="checkbox"/> Asbestos	<input type="checkbox"/> Lead	<input type="checkbox"/> Mold	Time of Inspection:	08:15 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM		
Materials Removed:	ACM Roof Patching Compound.						
Containment Location:	Building C, Higher Roof area (Around Roof Penetrations).						
Visual Inspection:	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail	Was the Contractor's Supervisor present during the inspection?			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

If Failed, please give a short explanation as to why:			
Please check off any possible contributing factors:		<input type="checkbox"/> Debris Remaining	<input type="checkbox"/> Bulk Material Remaining
Photos of deficiencies collected?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Inadequate Lighting	<input type="checkbox"/> Inadequate Equipment

Contractor's Certification		Owners Representative Certification	
In accordance with Project Decontamination requirements for project, the abatement contractor hereby certifies they have visually inspected ALL work area surfaces and have found no visible dust, debris or residue.		ACC Environmental Consultants, Inc., hereby certifies that we have accompanied the Contractor on the final visual inspection and verified the inspection to be thorough, and to the best of our knowledge, the Contractor's adjacent statement is a true and honest one.	
Signature:		Signature:	
Print Name:	Mario Ortega	Print Name:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)
Print Title:	Project Supervisor	Print Title:	Project Technician
Company:	Conflo Services, Inc. Abatement/Demolition	Company:	ACC Environmental Consultants, Inc.

Clearance Sampling Summary

Sample Date	Sample Number	Sample Location	Total Volume in Liters (L)	Result	Pass/Fail
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				

Air Sampling Passed?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Visual Inspection Only		
Clearance Criteria:	PCM (<0.01 f/cc)	TEM AHERA (<70s/mm ²)	<input type="checkbox"/> Mold	<input type="checkbox"/> Other:
Comments:				



FINAL VISUAL INSPECTION

Project Information				Date:	07/30/2019 Tuesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.						
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.						
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)			Project Manager:	Stephen Jackson (OAK)		
Contractor:	Conflo Services, Inc. Abatement/Demolition			Supervisor Name:	Mario Ortega		
Type of Work:	<input checked="" type="checkbox"/> Asbestos	<input type="checkbox"/> Lead	<input type="checkbox"/> Mold	Time of Inspection:	11:45 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM		
Materials Removed:	ACM Roof Patching Compound & Exterior Transit panels.						
Containment Location:	Building C, Lower Roof area (Around Roof Perimeter) & Exterior wall between lower roof & Higher roof.						
Visual Inspection:	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail	Was the Contractor's Supervisor present during the inspection?			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

If Failed, please give a short explanation as to why:			
Please check off any possible contributing factors:		<input type="checkbox"/> Debris Remaining	<input type="checkbox"/> Bulk Material Remaining
Photos of deficiencies collected?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Inadequate Lighting	<input type="checkbox"/> Inadequate Equipment

Contractor's Certification		Owners Representative Certification	
In accordance with Project Decontamination requirements for project, the abatement contractor hereby certifies they has visually inspected ALL work area surfaces and have found no visible dust, debris or residue.		ACC Environmental Consultants, Inc., hereby certifies that we have accompanied the Contractor on the final visual inspection and verified the inspection to be thorough, and to the best of our knowledge, the Contractor's adjacent statement is a true and honest one.	
Signature:		Signature:	
Print Name:	Mario Ortega	Print Name:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)
Print Title:	Project Supervisor	Print Title:	Project Technician
Company:	Conflo Services, Inc. Abatement/Demolition	Company:	ACC Environmental Consultants, Inc.

Clearance Sampling Summary

Sample Date	Sample Number	Sample Location	Total Volume in Liters (L)	Result	Pass/Fail
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				

Air Sampling Passed?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Visual Inspection Only		
Clearance Criteria:	PCM (<0.01 f/cc)	TEM AHERA (<70s/mm ²)	<input type="checkbox"/> Mold	<input type="checkbox"/> Other:
Comments:				

DAILY PROJECT REPORT

Project Information		Date:	07/31/2019 Wednesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Shift Activities		Loose & peeling Lead Based Paint									
Containment Setup	Containment Inspection	Bulk Material Removal	Perimeter Air Sampling	Final Detail Cleaning	Waste Load-Out	Final Visual Inspection	Final Air Clearance	Containment Tear-Down	Equipment De-Mobilize		
✓	✓	✓	✓	✓	✓	✓		✓	✓		
Work Area Location			General Debris Removed			Materials Removed (Asbestos & Lead)			Quantity	SF/LF	
Building C, Exterior CMU walls. Building C, Interior CMU Walls.			NA			Exterior Loose & peeling Lead Based Paints.			2,000	SF	
						Interior Loose & peeling Lead Based Paints.			1,500	SF	
Total Number of Work Areas:		2	Total Number of Containments:		2	See Notes for Additional Work Areas/ Materials Not Listed Above					
Asbestos Work Class:		Class I		Class II		Class III		Unclassified			

Materials Removed				
Asbestos Removal		✓ Lead Removal	Additional Hazardous Materials	
Contractor Assistance	Roofing Materials	Lead-Based Coating/ Paint	Mercury Vapor Light Tubes	Water Damaged Materials
Spot Abatement	Miscellaneous Materials	Lead-Containing Coating/ Paint	PCB Ballasts	Mold-Impacted Materials
Ceiling Materials	Surfacing Materials	Lead Glazed Ceramic Tile	Mercury Thermostat Switches	Indoor Air Quality (IAQ)
Flooring Materials	TSI/Insulation Materials	✓ Loose & Peeling Lead Paint		
✓ Wall Materials	✓ Exterior & Interior CMU walls Loose & Peeling LBP	Lead Sheeting		

Contractor Information					
Contractor:	Conflo Services, Inc. Abatement/Demolition			Supervisor Name:	Mario Ortega
Crew Size	3	Total No. of Personal Samples:	1	8-hour TWA:	1
Shift Start Time:	06:00 am	Lunch Time:	10:00 am	Excursion:	0
				Shift Finish Time:	02:30 pm
				Total Hours:	8.00

Personal Protective Equipment					
✓ ½ Face Respirator	✓ HEPA/ P100 Cartridges	✓ Full Body Disposable Suit	✓ Hard Hat	✓ Gloves	
Full Face Respirator	Organic Vapor Cartridges	Disposable Suit w/ Hood	✓ Safety Glasses	✓ Steel Toe/Shank Boots	
PAPR	Acid Gas Cartridges	✓ Neon Vest	Hearing Protection	Fall Protection	
Supplied Air Respirator	Piggy-back Cartridges	Other:			

DAILY PROJECT REPORT

Project Information		Date:	07/31/2019 Wednesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Air Monitoring Information

Air Sampling Performed by ACC During Shift?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Total Number of Samples Collected:		1
# of Samples	Cassette Type	Sample Type	Sample Numbers			
1	Lead	Perimeter	L-11800			
Onsite PCM Analysis Performed?		<input type="checkbox"/> Yes	<input type="checkbox"/> No	Name of Analyst:		
Laboratory Name, City:		Forensic Analytical Laboratories, Inc.: 3777 Depot Road #409, Hayward, California 94545 - (510) 887-8828				

Engineering Controls & Work Area Setup

Negative Pressure Enclosure	Splash Guards	Three-Stage w/Shower	<input checked="" type="checkbox"/>	Building Power	No Odor Mastic Remover
Mini Containment	<input checked="" type="checkbox"/> Drop Sheet	Two-Stage w/Hudson		Temp Power Box	<input checked="" type="checkbox"/> Wet Removal Methods
Clean Cube	View Ports	One-Stage w/Hudson	<input checked="" type="checkbox"/>	Contractor Supplied Power	NPU Charcoal Filters
Glove Bags	<input checked="" type="checkbox"/> English Warning Signs	"Z" Flap Air-Locks	<input checked="" type="checkbox"/>	GFCI Protection	<input checked="" type="checkbox"/> Fire Extinguishers
Critical Barriers	Spanish Warning Signs	<input checked="" type="checkbox"/> No Decon Required		Temporary Lighting	DOP Test Air Filtration Unit
Poly Walls (min 4-mil.)	<input checked="" type="checkbox"/> Hazard Barrier Tape	Remote Shower	<input checked="" type="checkbox"/>	Contractor Supplied Water	<input checked="" type="checkbox"/> DOP Test HEPA Vacuum
<input checked="" type="checkbox"/> Poly Floors (min. 6-mil.)	-0.02" Negative Pressure	Separate Load-Out		NPU Exhaust Location:	
Poly Ceiling (min 4-mil.)	-0.04" Negative Pressure	Shut Down HVAC		Other:	

Contractor Work Practice Information

	Yes	No	NA
Have copies of worker documents been received from the contractor in compliance with the scope of work?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are 'OSHA' personal air monitoring sample results being posted daily?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are workers going through the proper decontamination sequence upon leaving the work areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are good safety practices being followed at the job site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are workers demonstrating good "housekeeping" techniques?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is ACM (greater than >1%) being bagged and labeled as asbestos waste?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is water being used continuously to mist air, wet materials during removal and keep waste bags/ materials saturated?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are waste containers properly lined with poly, labeled, sealed, secured/ locked to prevent public access?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Information

Waste Type	Manifest Type	Manifest Number	Date	ID Number:
1.				
2.				
3.				
Transporter 1:				
Transporter 2:				
Designated Facility Name:				



ACTIVITIES LOG

Project Information		Date:	07/31/2019 Wednesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Time: Contractor Activity / Notable Occurrence

What Materials Are Removed - From Where - How Many Workers - Performing What Tasks - Using What Methods?
Any Problems, Visitors, Complaints?

6:00 AM : Conflo Services, Inc. Abatement/Demolition crew of 3 men are onsite.
6:15 AM : Conflo Services, Inc. abatement crew are getting ready to start the exterior plastic set up @ south section of the building C exterior CMU wall prior to the Exterior Loose & Peeling Lead Based Paint removal/ Stabilization.
6:20 AM : The Building C, South section exterior plastic set up is completed & ACC Onsite project technician visually inspected the plastic set up & The inspection is completed & is passed. ACC Onsite project technician gave OK to Conflo onsite project supervisor to go ahead & start the exterior Loose & Peeling Lead Based Paint removal & stabilization.
6:35 AM : Conflo Services, Inc. crew are going to start the exterior Loose & peeling Lead Based paint removal & stabilization. Crew have PPE (Suit & 1/2 face respirators, Etc). The Lead work start in the south section exterior CMU wall of the building C.
7:30 AM : Conflo Services, Inc. crew are continuing work activities for exterior Loose & peeling Lead Based paint removal & stabilization in the north & northeast section of the exterior CMU wall of the building C.
8:45 AM : Conflo Services, Inc. crew are continuing work activities for exterior Loose & peeling Lead Based paint removal & stabilization in the east section of the exterior CMU wall of the building C.
9:00 AM : Conflo Services, Inc. crew have completed the exterior Loose & peeling Lead Based paint removal & stabilization throughout the Building C, exterior CMU walls. Crew are continuing with the HEPA Vacuum clean up all remaining residual Loose & Peeling Lead Based Paint on the ground Level around the building perimeter of the exterior of the building C. Crew also started to remove & stabilize the yellow color Loose & peeling Lead Based Paint on the exterior concrete stairs with metal hand rail.
9:15 AM : Conflo Services, Inc. crew have started the interior Loose & peeling Lead Based paint removal & stabilization. Crew have PPE (Suit & 1/2 face respirators, Etc) inside the larger space in the building C.
9:40 AM : Conflo Services, Inc. crew are going to building D, exterior to make the portion of outside landscaping slightly Level with shovels & electrical chipping gun for the dumpster that has been planed to be dropped off next to the building D, exterior side close to the asphalt road during the project work activities in the building D.
9:55 AM : Conflo Services, Inc. Personel have completed the HEPA Vacuum Loose & peeling yellow color Lead Based Paint residual dust & debris on concrete steps & next to the stairs hand rail by the Building C.
10:00 AM : Conflo Services, Inc. Team are leaving the job site Operation work area & they are going for a lunch break.
11:15 AM : Conflo Services, Inc. abatement crew are back from the lunch break. Crew are getting ready to go inside the building C, with PPE (Suit, 1/2 face respirators, Etc) to bag remaining removed Loose & Peeling Lead Based Paint residual debris on the Floor in waste clear plastic bags & start Painting stabilized exterior CMU wall surfaces with primer paint. Conflo Services, Inc. crew will paint Both the outside exterior CMU walls & Interior of the Building C. The Painting starts from the outside of the building Exterior CMU walls.
12:45 PM : Conflo Services, abatement crew have completed the outside of the building C, Exterior CMU walls painting with primer Paint. Crew are going inside the building C to paint where the Loose & Peeling Lead Based Paint was removed & Stabilized.
2:00 PM : Conflo Services, abatement crew are moving their equipments in to the portable metal storage area.
2:30 PM : Conflo Services crew are leaving the job site.

ACC Staff Signature:

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Site Photos and Diagrams

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Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		

N

Site Photos and Diagrams

Bldg C, Exterior Loose & peeling Lead Based Paint removal & Stabilization plastic set up.

Building C
Floor Plan

Bldg C Interior Loose & peeling Lead Based Paint removal & Stabilization

ACC Staff Signature:

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Site Photos and Diagrams


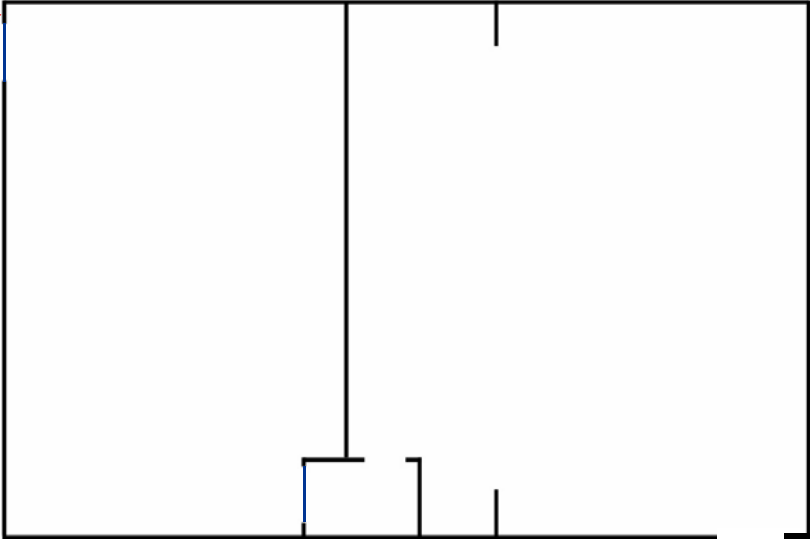
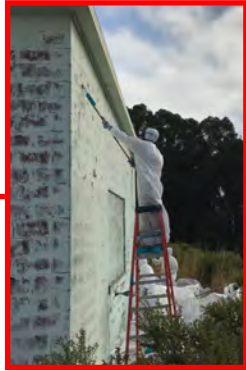
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Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		


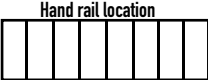

Site Photos and Diagrams




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Building C, Exterior CMU Wall Loose & Peeling Lead Based Paint removal / Stabilization work activities

[Signature]

ACC Staff Signature:

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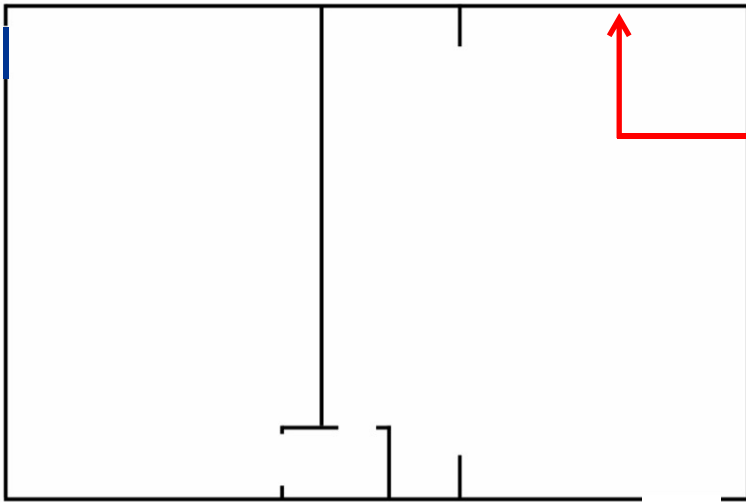
Site Photos and Diagrams

Project Information		Date:	07/31/2019 Wednesday	Project Number:	2062-163.00
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Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		



Site Photos and Diagrams

Exterior & Interior CMU walls Painting following Loose & Peeling Lead Based Paint removal & Stabilization in the Building C.



M. Massoud Navvab

ACC Staff Signature:

www.accenv.com



FINAL VISUAL INSPECTION

Project Information				Date:	07/31/2019 Wednesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.						
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.						
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)			Project Manager:	Stephen Jackson (OAK)		
Contractor:	Conflo Services, Inc. Abatement/Demolition			Supervisor Name:	Mario Ortega		
Type of Work:	Asbestos	<input checked="" type="checkbox"/> Lead	Mold	Time of Inspection:	10:00	<input checked="" type="checkbox"/> AM	PM
Materials Removed:	Exterior & Interior Loose & Peeling Lead Based Paint.						
Containment Location:	Building C, Interior & Exterior CMU Walls.						
Visual Inspection:	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail	Was the Contractor's Supervisor present during the inspection?			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

If Failed, please give a short explanation as to why:			
Please check off any possible contributing factors:		Debris Remaining	Bulk Material Remaining
Photos of deficiencies collected?	Yes	No	Inadequate Lighting

Contractor's Certification		Owners Representative Certification	
In accordance with Project Decontamination requirements for project, the abatement contractor hereby certifies they have visually inspected ALL work area surfaces and have found no visible dust, debris or residue.		ACC Environmental Consultants, Inc., hereby certifies that we have accompanied the Contractor on the final visual inspection and verified the inspection to be thorough, and to the best of our knowledge, the Contractor's adjacent statement is a true and honest one.	
Signature:		Signature:	
Print Name:	Mario Ortega	Print Name:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)
Print Title:	Project Supervisor	Print Title:	Project Technician
Company:	Conflo Services, Inc. Abatement/Demolition	Company:	ACC Environmental Consultants, Inc.

Clearance Sampling Summary

Sample Date	Sample Number	Sample Location	Total Volume in Liters (L)	Result	Pass/Fail
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				

Air Sampling Passed?	Yes	No	<input checked="" type="checkbox"/> Visual Inspection Only		
Clearance Criteria:	PCM (<0.01 f/cc)		TEM AHERA (<70s/mm ²)	Mold	Other:
Comments:					

PRE-ABATEMENT CONTAINMENT INSPECTION

Project Information		Date:	07/31/2019 Wednesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		
Contractor:	Conflo Services, Inc. Abatement/Demolition	Supervisor Name:	Mario Ortega		
Type of Work:	<input type="checkbox"/> Asbestos	<input checked="" type="checkbox"/> Lead	<input type="checkbox"/> Mold	Asbestos Work Class:	<input type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III
Containment Location:	Building C, Exterior CMU Walls.				

Site Observations	Yes	No	NA	Comments
Is the work area isolated?	✓			
Is access to work area adequately restricted?	✓			
Is there a designated area for resting & eating with drinking water available?	✓			
Are OSHA notifications posted outside the work area?	✓			
Are EPA/NESHAP notifications posted outside the work area?			✓	
Are site conditions or pre-existing damage noted and photographed?			✓	
Are EPA, UN and OSHA waste labels on-site & ready for waste containers?			✓	
Are waste dumpsters lined with poly and labeled with OSHA warning signs?			✓	

Containment Setup	Yes	No	NA	Comments
Are OSHA warning signs (English & Spanish) posted at all entrances to work area?	✓			
Is poly sheeting flame retardant?	✓			
Are 2 layers of poly (6 mil.) on the floor and 2 layers (4 mil.) on the walls?	✓			One layer, Exterior work activities.
Is poly sheeting adequately secured to walls and floors?			✓	
Are critical barriers installed over HVAC vents, doors, windows and other openings?			✓	
Has the HVAC system been shut down, locked out?			✓	
Are drop cloths in place?	✓			
Are emergency exits identified?	✓			
Is there adequate lighting (200 watts/1000 square feet)?	✓			Day light & emergency lights.
Have temporary power systems equipped with GFCI been installed?	✓			
Waste load-out path-of-travel protected?			✓	
Is local ventilation in-place for the work activities?			✓	
Are extension cords safely suspended off the ground?	✓			

Negative Pressure	Yes	No	NA	Comments
Has containment passed smoke test & with no stagnant air present?			✓	
If required, is a manometer installed and functioning properly?			✓	
Has the manometer been calibrated to zero?			✓	
Is negative pressure measuring to project requirements?			✓	
Has DOP testing of HEPA equipment been performed?	✓			
Have failed DOP tested equipment been removed or marked to prevent use?			✓	



PRE-ABATEMENT CONTAINMENT INSPECTION

Project Information		Date:	07/31/2019 Wednesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Emergency and Safety Equipment	Yes	No	NA	Comments
Are SDS sheets on site and accessible?	✓			
Is there and adequate first-aid kit on site?	✓			
Are all fire extinguishers inspected (yearly and monthly) and up-to date?	✓			
Are emergency numbers posted onsite, with routes to the hospital?	✓			
Is a floor plan indicating all exits and major equipment posted?	✓			
Is the main power in the work area shutdown and locked out?	✓			
Are all electrically powered tools and equipment equipped with a waterproof GFCI?	✓			
Does all scaffolding have safety rails, toe-kicks & fall protection if necessary?			✓	

Decontamination Unit	Yes	No	NA	Comments
Chamber 1: Clean Room	Are entrance doors properly constructed?		✓	
	Are ceilings and walls covered with poly?		✓	
	Is the chamber floor free of obstructions and clutter?		✓	
	Are linens and/or towels available?		✓	
	Are the entrance flaps properly constructed?		✓	
Chamber 2: Shower	Is HOT water available?		✓	
	Are soap, shampoo, linens and/or towels available?		✓	
	Is the floor beneath the shower pan properly protected?		✓	
	Does the shower provide a good spray?		✓	
	Is water being filtered through a 3-stage to 1-micrometer filter?		✓	
Chamber 3: Dirty Room	Is there a disposal bag for protective clothing?	✓		
	Is there a drop cloth on the floor?		✓	
	Is there a positive pressure airlock attached from the work area?		✓	
Chamber 4: Equipment Decon	Is there a separate equipment decontamination chamber?		✓	
	Is there a positive pressure airlock attached from the work area?		✓	

Additional Notes and Observations

ACC Staff Signature:

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Southern California: 1055 Wilshire Boulevard, Suite 1450 • Los Angeles, California 90017 • (213) 353-1240 • Fax (213) 353-1244



AIR SAMPLE ANALYSIS FORM

Report To:	Stephen Jackson (OAK); Email: sjackson@accenv.com; Phone: (510) 512-8320						Turnaround Time:	Standard (3-5 Day)				
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.											
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.											
Project Number:	2062-163.00				Analysis Requested							
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)				PCM: NIOSH 7400		TEM: AHERA		TEM: Level II		TEM: 7402 Method	
ACC Onsite Analysis?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				<input checked="" type="checkbox"/> Lead AA		Non-Viable Fungi		Other		Rotameter ID: HF-02	
Sample Number	Lab ID	Sample Type	Date Collected	LPM On LPM Off	Average LPM	Time On Time Off	Total Minutes	Total Liters	Sample Location	Fibers	Fields	
L-11800		Perimeter	07/31/2019 Wednesday	13.68 13.68	13.68	6:30 am 12:00 pm	330	4514.40 L	Building C, South exterior wall.			
Released by:					Signature:				Date:	07/31/2019	Time:	
Received by:					Signature:				Date:		Time:	
Comments:												
Laboratory Performing Analysis: Forensic Analytical Laboratories, Inc.: 3777 Depot Road #409, Hayward, California 94545 - (510) 887-8828												

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 Southern California: 1055 Wilshire Boulevard, Suite 1450 • Los Angeles, California 90017 • (213) 353-1240 • Fax (213) 353-1244

DAILY PROJECT REPORT

Project Information		Date:	08/01/2019 Thursday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Shift Activities		General Construction debris									
Containment Setup	Containment Inspection	Bulk Material Removal	Perimeter Air Sampling	Final Detail Cleaning	Waste Load-Out	Final Visual Inspection	Final Air Clearance	Containment Tear-Down	Equipment De-Mobilize		
✓	✓	✓	✓	✓	✓	✓		✓	✓		
Work Area Location			General Debris Removed			Materials Removed (Asbestos & Lead)			Quantity	SF/LF	
Building C, Interior & Exterior. Building C, Roof area (Higher roof Eve).			General Construction debris.			Exterior & Interior residual Loose & Peeling Lead			100	SF	
						Based Paint					
Total Number of Work Areas:		2	Total Number of Containments:		2	See Notes for Additional Work Areas/ Materials Not Listed Above					
Asbestos Work Class:		Class I		Class II		Class III		Unclassified			

Materials Removed				
Asbestos Removal		✓ Lead Removal	Additional Hazardous Materials	
Contractor Assistance	Roofing Materials	Lead-Based Coating/ Paint	Mercury Vapor Light Tubes	Water Damaged Materials
Spot Abatement	Miscellaneous Materials	Lead-Containing Coating/ Paint	PCB Ballasts	Mold-Impacted Materials
✓ Ceiling Materials	Surfacing Materials	Lead Glazed Ceramic Tile	Mercury Thermostat Switches	Indoor Air Quality (IAQ)
✓ Flooring Materials	TSI/Insulation Materials	✓ Loose & Peeling Lead Paint		
✓ Wall Materials	Exterior CMU walls & roof eve.	Lead Sheeting		

Contractor Information					
Contractor:	Conflo Services, Inc. Abatement/Demolition			Supervisor Name:	Mario Ortega
Crew Size	3	Total No. of Personal Samples:	1	8-hour TWA:	1
				Excursion:	0
Shift Start Time:	06:00 am	Lunch Time:	10:00 am	Shift Finish Time:	02:30 pm
				Total Hours:	8.00

Personal Protective Equipment					
✓ ½ Face Respirator	✓ HEPA/ P100 Cartridges	✓ Full Body Disposable Suit	✓ Hard Hat	✓ Gloves	
Full Face Respirator	Organic Vapor Cartridges	Disposable Suit w/ Hood	✓ Safety Glasses	✓ Steel Toe/Shank Boots	
PAPR	Acid Gas Cartridges	✓ Neon Vest	Hearing Protection	Fall Protection	
Supplied Air Respirator	Piggy-back Cartridges	Other:			

DAILY PROJECT REPORT

Project Information		Date:	08/01/2019 Thursday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Air Monitoring Information		Air Sampling Performed by ACC During Shift?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Total Number of Samples Collected:	1
# of Samples	Cassette Type	Sample Type	Sample Numbers				
1	Lead	Perimeter	L-11810				
Onsite PCM Analysis Performed?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Name of Analyst:			
Laboratory Name, City:		Forensic Analytical Laboratories, Inc.: 3777 Depot Road #409, Hayward, California 94545 - (510) 887-8828					

Engineering Controls & Work Area Setup					
Negative Pressure Enclosure	Splash Guards	Three-Stage w/Shower	<input checked="" type="checkbox"/>	Building Power	No Odor Mastic Remover
Mini Containment	<input checked="" type="checkbox"/> Drop Sheet	Two-Stage w/Hudson		Temp Power Box	<input checked="" type="checkbox"/> Wet Removal Methods
Clean Cube	View Ports	One-Stage w/Hudson	<input checked="" type="checkbox"/>	Contractor Supplied Power	NPU Charcoal Filters
Glove Bags	<input checked="" type="checkbox"/> English Warning Signs	"Z" Flap Air-Locks	<input checked="" type="checkbox"/>	GFCI Protection	<input checked="" type="checkbox"/> Fire Extinguishers
Critical Barriers	Spanish Warning Signs	<input checked="" type="checkbox"/> No Decon Required		Temporary Lighting	DOP Test Air Filtration Unit
Poly Walls (min 4-mil.)	<input checked="" type="checkbox"/> Hazard Barrier Tape	Remote Shower	<input checked="" type="checkbox"/>	Contractor Supplied Water	<input checked="" type="checkbox"/> DOP Test HEPA Vacuum
<input checked="" type="checkbox"/> Poly Floors (min. 6-mil.)	-0.02" Negative Pressure	Separate Load-Out		NPU Exhaust Location:	
Poly Ceiling (min 4-mil.)	-0.04" Negative Pressure	Shut Down HVAC		Other:	

Contractor Work Practice Information			Yes	No	NA
Have copies of worker documents been received from the contractor in compliance with the scope of work?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are 'OSHA' personal air monitoring sample results being posted daily?			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are workers going through the proper decontamination sequence upon leaving the work areas?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are good safety practices being followed at the job site?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are workers demonstrating good "housekeeping" techniques?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is ACM (greater than >1%) being bagged and labeled as asbestos waste?			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is water being used continuously to mist air, wet materials during removal and keep waste bags/ materials saturated?			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are waste containers properly lined with poly, labeled, sealed, secured/ locked to prevent public access?			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Waste Information				
Waste Type	Manifest Type	Manifest Number	Date	ID Number:
1.				
2.				
3.				
Transporter 1:				
Transporter 2:				
Designated Facility Name:				



ACTIVITIES LOG

Project Information		Date:	08/01/2019 Thursday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Time: Contractor Activity / Notable Occurrence

What Materials Are Removed - From Where - How Many Workers - Performing What Tasks - Using What Methods?
Any Problems, Visitors, Complaints?

6:00 AM : Conflo Services, Inc. Abatement/Demolition crew of 3 men are onsite.
6:15 AM : Conflo Services, Inc. have their large truck onsite to load out NON-ACM General Construction Debris clear waste plastic bags which are contains drywall ceiling & ceiling tiles removed from the room inside the building C.
6:30 AM : Conflo Services, Inc abatement crew are getting ready with PPE (Suit, 1/2 face respirators, Etc.) to start the load out General Construction Debris waste clear plastic bags in to the truck next to the Bldg C.
7:00 AM : The load out General Construction Debris waste clear plastic bags in to the Conflo truck is in progress.
7:30 AM : Conflo Services, Inc abatement crew are continuing to remove wooden materials (2x4 ,saw cutting) in the ceiling area of the building C interior. Conflo abatement crew have water Airless sprayer (electrical) to control the existing General Construction debris dust inside the building during the work activities. Crew also are continuing the load out of removed General Construction debris in to the truck which is parked by the temporary entrance next to a Bldg C.
8:30 AM : Conflo Services abatement crew are continuing using HEPA Vacuum to clean up General Construction Debris Inside flooring tranches. Crew remove the metal covering over tranches & remove General Construction debris inside tranches & by using the HEPA Vacuum,they clean up remaining dust & debris.
9:30 AM : Conflo Services, Inc. abatement crew are continuing using the primer paint to complete sealing the remaining stabilized CMU walls surfaces on the exterior walls of Bldg C. Also there are more CMU & other window components & louvers stabilized surface spots inside the Bldg C that will be sealed with primer paint later on following the completion of the outside exterior CMU walls.
10:00 AM : Conflo Services, Inc. crew are leaving the job site Operation work area & they are going for a lunch break.
11:00 AM : Conflo Services, Inc. abatement crew are back from the lunch break. Crew are getting ready to go inside the building C, with PPE (Suit, 1/2 face respirators, Etc) to continue using HEPA Vacuum to clean up General Construction Debris Inside flooring remaining tranches. Crew have removed the metal covering remaining over tranches & removing General Construction debris inside tranches & by using the HEPA Vacuum, they clean up remaining dust & debris. Also Conflo Services, Inc. abatement Personel is going on the roof of Building C, Lower roof to do the plastic set up prior to the roofing Eve Loose & Peeling Lead Based Paint removal & stabilization.
11:10 PM : The exterior plastic set up on the lower roof is completed & ACC Onsite project technician visually inspected the plastic set up & The inspection is completed & is passed. ACC Onsite project technician gave OK to Conflo onsite project supervisor to go ahead & start the exterior Loose & Peeling Lead Based Paint removal & stabilization on the metal roof Eve of the Higher roof area.
11:15 AM : Conflo Services, Inc. worker is going to start the exterior Loose & peeling Lead Based paint removal & stabilization on the lower roof area. The Lead worker has PPE (Suit & 1/2 face respirators, Etc).
11:30 : The exterior Loose & peeling Lead Based paint removal & stabilization on the higher roof Eve area is completed & the final visual inspection is completed & is passed. The plastic sheeting on the roof is removed & all removed exterior Loose & peeling Lead Based paint residual dust & debris are bagged in clear waste plastic bag. ACC Onsite technician visually inspected the roof Eve area the final visual inspection is completed & is passed. The metal Eve area is painted with primer.
1:30 PM : Conflo Services, Inc. crew have completed the flooring tranches General Construction Debris clean up & the HEPA Vacuum cleaning in all flooring tranches. Also the main floor has been vacuumed with HEPA Vacuum & washed with Airless water sprayer throughout the building C, interior. ACC Onsite technician visually inspected the building C Flooring & tranches & find them to be clean & they are all in an acceptable conditions. Also All Asbestos waste bags are moved in to the designated location & covered with plastic & asbestos signs are posted on the plastic cover. The Building C, interior final visual inspection is completed & is passed.
1:45 PM : Conflo Services, Inc. crew are going to use primer paint to seal stabilized CMU wall surfaces inside the Building B.
2:00 PM : Conflo Services, abatement crew are moving their equipments in to the portable metal storage area.
2:30 PM : Conflo Services crew are leaving the job site.

ACC Staff Signature:

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PRE-ABATEMENT CONTAINMENT INSPECTION

Project Information		Date:	08/01/2019 Thursday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		
Contractor:	Conflo Services, Inc. Abatement/Demolition	Supervisor Name:	Mario Ortega		
Type of Work:	<input type="checkbox"/> Asbestos	<input checked="" type="checkbox"/> Lead	<input type="checkbox"/> Mold	Asbestos Work Class:	<input type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III
Containment Location:	Building C, Exterior Eve of the Higher roof area				

Site Observations	Yes	No	NA	Comments
Is the work area isolated?	✓			
Is access to work area adequately restricted?	✓			
Is there a designated area for resting & eating with drinking water available?	✓			
Are OSHA notifications posted outside the work area?	✓			
Are EPA/NESHAP notifications posted outside the work area?			✓	
Are site conditions or pre-existing damage noted and photographed?			✓	
Are EPA, UN and OSHA waste labels on-site & ready for waste containers?			✓	
Are waste dumpsters lined with poly and labeled with OSHA warning signs?			✓	

Containment Setup	Yes	No	NA	Comments
Are OSHA warning signs (English & Spanish) posted at all entrances to work area?	✓			
Is poly sheeting flame retardant?	✓			
Are 2 layers of poly (6 mil.) on the floor and 2 layers (4 mil.) on the walls?	✓			One layer, Exterior work activities.
Is poly sheeting adequately secured to walls and floors?			✓	
Are critical barriers installed over HVAC vents, doors, windows and other openings?			✓	
Has the HVAC system been shut down, locked out?			✓	
Are drop cloths in place?	✓			
Are emergency exits identified?	✓			
Is there adequate lighting (200 watts/1000 square feet)?	✓			Day light & emergency lights.
Have temporary power systems equipped with GFCI been installed?	✓			
Waste load-out path-of-travel protected?			✓	
Is local ventilation in-place for the work activities?			✓	
Are extension cords safely suspended off the ground?	✓			

Negative Pressure	Yes	No	NA	Comments
Has containment passed smoke test & with no stagnant air present?			✓	
If required, is a manometer installed and functioning properly?			✓	
Has the manometer been calibrated to zero?			✓	
Is negative pressure measuring to project requirements?			✓	
Has DOP testing of HEPA equipment been performed?	✓			
Have failed DOP tested equipment been removed or marked to prevent use?			✓	



PRE-ABATEMENT CONTAINMENT INSPECTION

Project Information		Date:	08/01/2019 Thursday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Emergency and Safety Equipment	Yes	No	NA	Comments
Are SDS sheets on site and accessible?	✓			
Is there and adequate first-aid kit on site?	✓			
Are all fire extinguishers inspected (yearly and monthly) and up-to date?	✓			
Are emergency numbers posted onsite, with routes to the hospital?	✓			
Is a floor plan indicating all exits and major equipment posted?	✓			
Is the main power in the work area shutdown and locked out?	✓			
Are all electrically powered tools and equipment equipped with a waterproof GFCI?	✓			
Does all scaffolding have safety rails, toe-kicks & fall protection if necessary?			✓	

Decontamination Unit	Yes	No	NA	Comments
Chamber 1: Clean Room	Are entrance doors properly constructed?		✓	
	Are ceilings and walls covered with poly?		✓	
	Is the chamber floor free of obstructions and clutter?		✓	
	Are linens and/or towels available?		✓	
	Are the entrance flaps properly constructed?		✓	
Chamber 2: Shower	Is HOT water available?		✓	
	Are soap, shampoo, linens and/or towels available?		✓	
	Is the floor beneath the shower pan properly protected?		✓	
	Does the shower provide a good spray?		✓	
	Is water being filtered through a 3-stage to 1-micrometer filter?		✓	
Chamber 3: Dirty Room	Is there a disposal bag for protective clothing?	✓		
	Is there a drop cloth on the floor?		✓	
	Is there a positive pressure airlock attached from the work area?		✓	
Chamber 4: Equipment Decon	Is there a separate equipment decontamination chamber?		✓	
	Is there a positive pressure airlock attached from the work area?		✓	

Additional Notes and Observations

ACC Staff Signature:

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AIR SAMPLE ANALYSIS FORM

Report To:	Stephen Jackson (OAK); Email: sjackson@accenv.com; Phone: (510) 512-8320						Turnaround Time:	Standard (3-5 Day)				
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.											
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.											
Project Number:	2062-163.00				Analysis Requested							
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)				PCM: NIOSH 7400		TEM: AHERA		TEM: Level II		TEM: 7402 Method	
ACC Onsite Analysis?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				✓ Lead AA		Non-Viable Fungi		Other		Rotameter ID: HF-02	
Sample Number	Lab ID	Sample Type	Date Collected	LPM On LPM Off	Average LPM	Time On Time Off	Total Minutes	Total Liters	Sample Location	Fibers	Fields	
L-11810		Perimeter	08/01/2019 Thursday	13.68 13.68	13.68	6:45 am 12:15 pm	330	4514.40 L	Building C, Next to the south exterior wall close to the temporary entrance to the building Interior.			
Released by:					Signature:				Date:	08/01/2019	Time:	
Received by:					Signature:				Date:		Time:	
Comments:												
Laboratory Performing Analysis: Forensic Analytical Laboratories, Inc.: 3777 Depot Road #409, Hayward, California 94545 - (510) 887-8828												

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FINAL VISUAL INSPECTION

Project Information				Date:	08/01/2019 Thursday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.						
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.						
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)			Project Manager:	Stephen Jackson (OAK)		
Contractor:	Conflo Services, Inc. Abatement/Demolition			Supervisor Name:	Mario Ortega		
Type of Work:	Asbestos	<input checked="" type="checkbox"/> Lead	Mold	Time of Inspection:	11:30 <input checked="" type="checkbox"/> AM PM		
Materials Removed:	Exterior Loose & Peeling Lead Based Paint.						
Containment Location:	Building C, Higher roof exterior Eve.						
Visual Inspection:	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail	Was the Contractor's Supervisor present during the inspection?			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

If Failed, please give a short explanation as to why:			
Please check off any possible contributing factors:		Debris Remaining	Bulk Material Remaining
Photos of deficiencies collected?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Inadequate Lighting	Inadequate Equipment

Contractor's Certification		Owners Representative Certification	
In accordance with Project Decontamination requirements for project, the abatement contractor hereby certifies they have visually inspected ALL work area surfaces and have found no visible dust, debris or residue.		ACC Environmental Consultants, Inc., hereby certifies that we have accompanied the Contractor on the final visual inspection and verified the inspection to be thorough, and to the best of our knowledge, the Contractor's adjacent statement is a true and honest one.	
Signature:		Signature:	
Print Name:	Mario Ortega	Print Name:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)
Print Title:	Project Supervisor	Print Title:	Project Technician
Company:	Conflo Services, Inc. Abatement/Demolition	Company:	ACC Environmental Consultants, Inc.

Clearance Sampling Summary

Sample Date	Sample Number	Sample Location	Total Volume in Liters (L)	Result	Pass/Fail
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				

Air Sampling Passed?	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input checked="" type="checkbox"/> Visual Inspection Only		
Clearance Criteria:	PCM (<0.01 f/cc)	TEM AHERA (<70s/mm ²)	Mold	Other:
Comments:				



FINAL VISUAL INSPECTION

Project Information				Date:	08/01/2019 Thursday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.						
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.						
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)			Project Manager:	Stephen Jackson (OAK)		
Contractor:	Conflo Services, Inc. Abatement/Demolition			Supervisor Name:	Mario Ortega		
Type of Work:	Asbestos	<input checked="" type="checkbox"/> Lead	Mold	Time of Inspection:	1:30	AM	<input checked="" type="checkbox"/> PM
Materials Removed:	Interior Loose & Peeling Lead Based Paint.						
Containment Location:	Building C, Flooring with red paint.						
Visual Inspection:	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail	Was the Contractor's Supervisor present during the inspection?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

If Failed, please give a short explanation as to why:			
Please check off any possible contributing factors:		Debris Remaining	Bulk Material Remaining
Photos of deficiencies collected?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Inadequate Lighting	Inadequate Equipment

Contractor's Certification		Owners Representative Certification	
In accordance with Project Decontamination requirements for project, the abatement contractor hereby certifies they have visually inspected ALL work area surfaces and have found no visible dust, debris or residue.		ACC Environmental Consultants, Inc., hereby certifies that we have accompanied the Contractor on the final visual inspection and verified the inspection to be thorough, and to the best of our knowledge, the Contractor's adjacent statement is a true and honest one.	
Signature:		Signature:	
Print Name:	Mario Ortega	Print Name:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)
Print Title:	Project Supervisor	Print Title:	Project Technician
Company:	Conflo Services, Inc. Abatement/Demolition	Company:	ACC Environmental Consultants, Inc.

Clearance Sampling Summary

Sample Date	Sample Number	Sample Location	Total Volume in Liters (L)	Result	Pass/Fail
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				

Air Sampling Passed?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Visual Inspection Only		
Clearance Criteria:	PCM (<0.01 f/cc)	TEM AHERA (<70s/mm ²)	Mold	Other:
Comments:				

Site Photos and Diagrams

Project Information		Date:	08/01/2019 Thursday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		



Site Photos and Diagrams

Building C, Interior space following the Completion of the final detail clean up



Asbestos waste bags temporary stationery storage area

[Handwritten signature]

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Southern California: 1055 Wilshire Boulevard, Suite 1450 • Los Angeles, California 90017 • (213) 353-1240 • Fax (213) 353-1244

Site Photos and Diagrams

Project Information		Date:	08/01/2019 Thursday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		



Site Photos and Diagrams

Exterior roof Eve Surface following Loose & Peeling Lead Based Paint removal & Stabilization in the Building C.



Exterior roof Eve Painting with primer following Loose & Peeling Lead Based Paint removal & Stabilization in the Building C.

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Site Photos and Diagrams

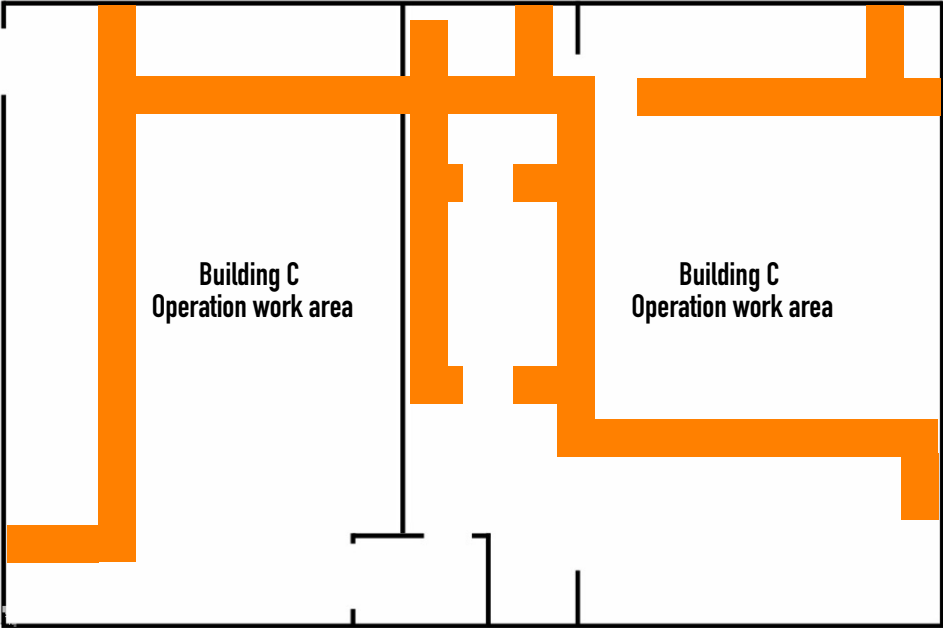
Project Information		Date:	08/01/2019 Thursday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		



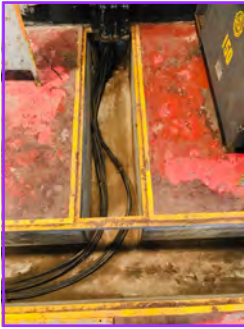


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Site Photos and Diagrams


Building C Floor Plan

Building C, Flooring tranches locations



Flooring tranches interior after General Construction Debris HEPA Vacuum clean up





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DAILY PROJECT REPORT

Project Information		Date:	08/02/2019 Friday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Shift Activities									
Containment Setup	Containment Inspection	Bulk Material Removal	Perimeter Air Sampling	Final Detail Cleaning	Waste Load-Out	Final Visual Inspection	Final Air Clearance	Containment Tear-Down	Equipment De-Mobilize
✓		✓							
Work Area Location			General Debris Removed			Materials Removed (Asbestos & Lead)		Quantity	SF/LF
Building D, Interior & Exterior. Building D, Roof area.			General Construction debris (roofing structures).						
Total Number of Work Areas:		1	Total Number of Containments:		1	See Notes for Additional Work Areas/ Materials Not Listed Above			
Asbestos Work Class:		Class I		Class II		Class III		Unclassified	

Materials Removed				
Asbestos Removal		Lead Removal		Additional Hazardous Materials
Contractor Assistance	Roofing Materials	Lead-Based Coating/ Paint		Mercury Vapor Light Tubes
Spot Abatement	Miscellaneous Materials	Lead-Containing Coating/ Paint		PCB Ballasts
✓ Ceiling Materials	Surfacing Materials	Lead Glazed Ceramic Tile		Mercury Thermostat Switches
Flooring Materials	TSI/Insulation Materials	Loose & Peeling Lead Paint		
Wall Materials		Lead Sheeting		
				Water Damaged Materials
				Mold-Impacted Materials
				Indoor Air Quality (IAQ)

Contractor Information					
Contractor:	Conflo Services, Inc. Abatement/Demolition			Supervisor Name:	Mario Ortega
Crew Size	3	Total No. of Personal Samples:	0	8-hour TWA:	0
Excursion:	0				
Shift Start Time:	06:00 am	Lunch Time:	10:00 am	Shift Finish Time:	02:30 pm
Total Hours:	8.00				

Personal Protective Equipment					
✓ ½ Face Respirator	✓ HEPA/ P100 Cartridges	✓ Full Body Disposable Suit	✓ Hard Hat	✓ Gloves	
Full Face Respirator	Organic Vapor Cartridges	Disposable Suit w/ Hood	✓ Safety Glasses	✓ Steel Toe/Shank Boots	
PAPR	Acid Gas Cartridges	✓ Neon Vest	Hearing Protection	Fall Protection	
Supplied Air Respirator	Piggy-back Cartridges	Other:			

DAILY PROJECT REPORT

Project Information		Date:	08/02/2019 Friday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Air Monitoring Information

Air Sampling Performed by ACC During Shift?		Yes	<input checked="" type="checkbox"/> No	Total Number of Samples Collected:		0
# of Samples	Cassette Type	Sample Type	Sample Numbers			
Onsite PCM Analysis Performed?		Yes	No	Name of Analyst:		
Laboratory Name, City:						

Engineering Controls & Work Area Setup

Negative Pressure Enclosure	Splash Guards	Three-Stage w/Shower	Building Power	No Odor Mastic Remover
Mini Containment <input checked="" type="checkbox"/>	Drop Sheet	Two-Stage w/Hudson <input checked="" type="checkbox"/>	Temp Power Box <input checked="" type="checkbox"/>	Wet Removal Methods
Clean Cube	View Ports	One-Stage w/Hudson <input checked="" type="checkbox"/>	Contractor Supplied Power	NPU Charcoal Filters
Glove Bags <input checked="" type="checkbox"/>	English Warning Signs	"Z" Flap Air-Locks <input checked="" type="checkbox"/>	GFCI Protection <input checked="" type="checkbox"/>	Fire Extinguishers
<input checked="" type="checkbox"/> Critical Barriers	Spanish Warning Signs <input checked="" type="checkbox"/>	No Decon Required	Temporary Lighting	DOP Test Air Filtration Unit
Poly Walls (min 4-mil.) <input checked="" type="checkbox"/>	Hazard Barrier Tape	Remote Shower <input checked="" type="checkbox"/>	Contractor Supplied Water <input checked="" type="checkbox"/>	DOP Test HEPA Vacuum
Poly Floors (min. 6-mil.)	-0.02" Negative Pressure	Separate Load-Out	NPU Exhaust Location:	
Poly Ceiling (min 4-mil.)	-0.04" Negative Pressure	Shut Down HVAC	Other:	

Contractor Work Practice Information

	Yes	No	NA
Have copies of worker documents been received from the contractor in compliance with the scope of work?	<input checked="" type="checkbox"/>		
Are 'OSHA' personal air monitoring sample results being posted daily?			<input checked="" type="checkbox"/>
Are workers going through the proper decontamination sequence upon leaving the work areas?	<input checked="" type="checkbox"/>		
Are good safety practices being followed at the job site?	<input checked="" type="checkbox"/>		
Are workers demonstrating good "housekeeping" techniques?	<input checked="" type="checkbox"/>		
Is ACM (greater than >1%) being bagged and labeled as asbestos waste?			<input checked="" type="checkbox"/>
Is water being used continuously to mist air, wet materials during removal and keep waste bags/ materials saturated?			<input checked="" type="checkbox"/>
Are waste containers properly lined with poly, labeled, sealed, secured/ locked to prevent public access?			<input checked="" type="checkbox"/>

Waste Information

Waste Type	Manifest Type	Manifest Number	Date	ID Number:
1.				
2.				
3.				
Transporter 1:				
Transporter 2:				
Designated Facility Name:				

ACTIVITIES LOG

Project Information		Date:	08/02/2019 Friday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Time: Contractor Activity / Notable Occurrence	
What Materials Are Removed - From Where - How Many Workers - Performing What Tasks - Using What Methods? Any Problems, Visitors, Complaints?	
<p>6:00 AM : Conflo Services, Inc. Abatement/Demolition crew of 3 men are onsite.</p> <p>6:15 AM : Conflo Services, Inc. Project supervisor & two crew members & ACC onsite technician walk through the exterior & interior of the Bldg D, & inspect the exterior & the interior existing condition prior to the project work activity regulated area plastic set up.</p> <p>6:30 AM : Conflo Services, Inc. abatement crew are getting ready with PPE (Suit, 1/2 face respirators, Etc.) to start the exterior work activities. Crew are going to make a path of travel around the building exterior perimeter. Crew are going to cut down trees & bushes that has been grown on the way next to the building D, with chain saw as well as to improve & make the spot of the dumpster drop off, close to be leveled with chipping gun & shovels next to the asphalt road.</p> <p>7:30 AM : Conflo Services, Inc. abatement crew are continuing to remove trees & bushes that had grown around the building D, perimeter area with chain saw to make the path of travel around the building perimeter walls good enough to be able to perform the work related hazardous materials work activities.</p> <p>8:45 AM : Conflo Services, Inc. crew have completed trees & bushes chain saw cutting & all removed plants have been moved away from the building D, exteriors & crew are going inside the building D, with PPE (Suits, 1/2 face respirators, Etc.) for limited mixed Loose & peeling Lead Based Paint with building General Construction Debris materials clean up by the building entry hall area to be able to get in to the location that the portion of the roof area has been collapsed. Crew are going to remove this portion of the roof area prior to the containment plastic set up.</p> <p>9:46 AM : ACC Onsite technician visually inspected the exterior perimeter walls throughout the Bldg D & discovered at least up to 100 SF of ACM TSI Pipe Insulation Debris in & on the exterior dirt where grown trees were cut down with the chain saw & moved away from the building D, Exterior wall @ South section. Pictures are taken & 3 PLM samples of each homogeneous materials are collected (6 total prior positive). Samples will be taken to Forensic for 4 Hours TAT. ACC Project technician notified ACC Project Manager (Steve Jackson) in this regard for any action. ACC Project technician asked Conflo project superintendent (Daniel Levine) to let his crew to know that do not disturb the materials & dirt & provide signage & restrict the area for only authorized Personel entry until the final decision comes from ACC & the alameda County.</p> <p>10:00 AM : Conflo Services, Inc. crew are leaving the job site (Bldg D, operation work area) & they are going for a lunch break.</p> <p>11:00 AM : Conflo Services, Inc. abatement crew are back from the lunch break. Crew are going on the Bldg D, roof area to secure the roof open penetration with plastic & wood panels to make sure the plastic stay in place during the asbestos abatement & Loose & Peeling Lead Based Paint removal & stabilization inside the Building D containment area.</p> <p>12:30 PM : Conflo Services, Inc. crew work activities on the Building D, roof area to seal all roof open penetrations throughout the roof area is in full operation. Conflo crew are wearing PPE (1/2 Face respirators, Suits, Etc) during the project work activities.</p> <p>2:00 PM : Conflo Services, abatement crew are moving their equipments in to the portable metal storage area.</p> <p>2:30 PM : Conflo Services crew are leaving the job site.</p> <p>3:00 PM : ACC Project technician delivered 6 PLM Samples (prior positive) to Forensic analytical Laboratory for analyses for 4 Hours RUSH turn around time.</p>	




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BULK SAMPLE CHAIN-OF-CUSTODY

Report to:	Steve Jackson	Email:	sjackson@accenv.com	Phone:	(510) 512-8320
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building D.			Project Number:	2062-163.00
Collected by:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555).			Date Collected:	08/02/19
Sample Analysis:	✓ PLM	Lead		✓ Stop at 1 st Positive Layer	Turnaround Time: 4 Hours RUSH
Comments:	Please analyze PLM Samples prior to the 1st positive test result. Thanks				
Sample ID	Material Size-Color-Pattern-Material-Post Description	Material Location [Quantity] Building or Floor: Area(s) - Component	Sample Location Area - Component	Size	
PI-01-01 PI-01-02 PI-01-03	Pipe Insulation (TSI) 3" O.D. Pipe Insulation (TSI) 3" O.D. Pipe Insulation (TSI) 3" O.D.	Building D, South exterior Landscaping area on the dirt & inside the dirt. Approximately > 100 SF.	01- Ext- Landscaping area , South Section. 02-Ext- Landscaping area , South Section. 03-Ext- Landscaping area , South Section.	Bulk Sample	
PI-02-01 PI-02-02 PI-02-03	Pipe Insulation (TSI) 3" O.D. (Air-O-Cell). Pipe Insulation (TSI) 3" O.D. (Air-O-Cell). Pipe Insulation (TSI) 3" O.D. (Air-O-Cell).	Building D, South exterior Landscaping area on the dirt & inside the dirt. Approximately > 100 SF.	01- Ext- Landscaping area , South Section. 02-Ext- Landscaping area , South Section. 03-Ext- Landscaping area , South Section.	Bulk Sample	
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
Released:	M.Massoud Navvab	Signature:		Date:	08/02/19
Received:		Signature:		Date:	
Lab Info:	EMSL Analytical, Inc. (EMSL): 464 McCormick Street, San Leandro, California 94577, (510) 895-3675 Forensic Analytical Laboratories, Inc. (FALI): 3777 Depot Road # 409, Hayward, California 94545, (510) 887-8828				

Site Photos and Diagrams

Project Information		Date:	08/02/2019 Friday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		

Building D, interior & Exterior existing condition Site Photos and Diagrams



M. Massoud Navvab

ACC Staff Signature:

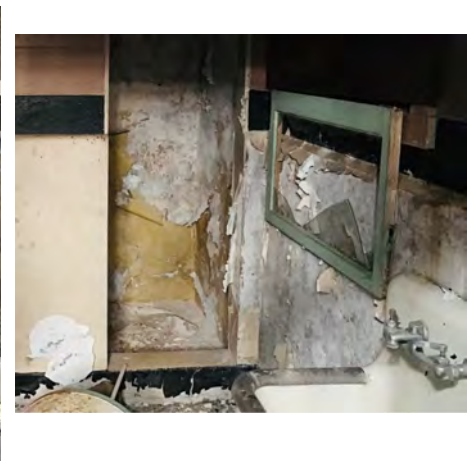
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Site Photos and Diagrams

Project Information		Date:	08/02/2019 Friday	Project Number:	2062-163.00
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Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		

Building D, interior & existing condition Site Photos and Diagrams



M. Massoud Navvab

ACC Staff Signature:

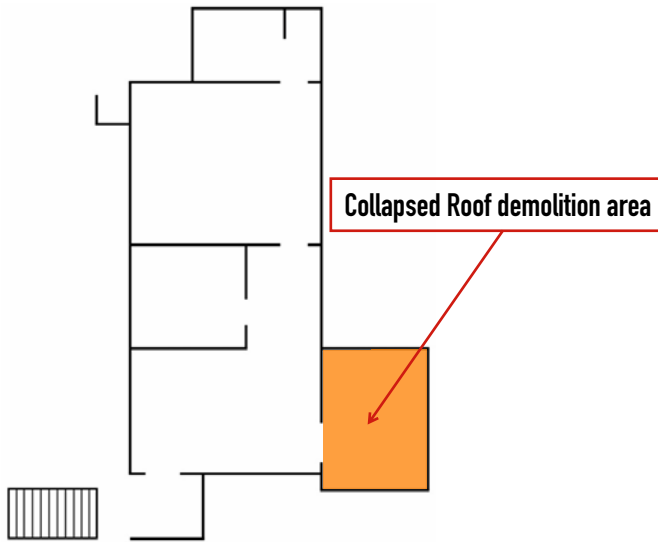
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Site Photos and Diagrams

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Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		

Site Photos and Diagrams



M. Massoud Navvab

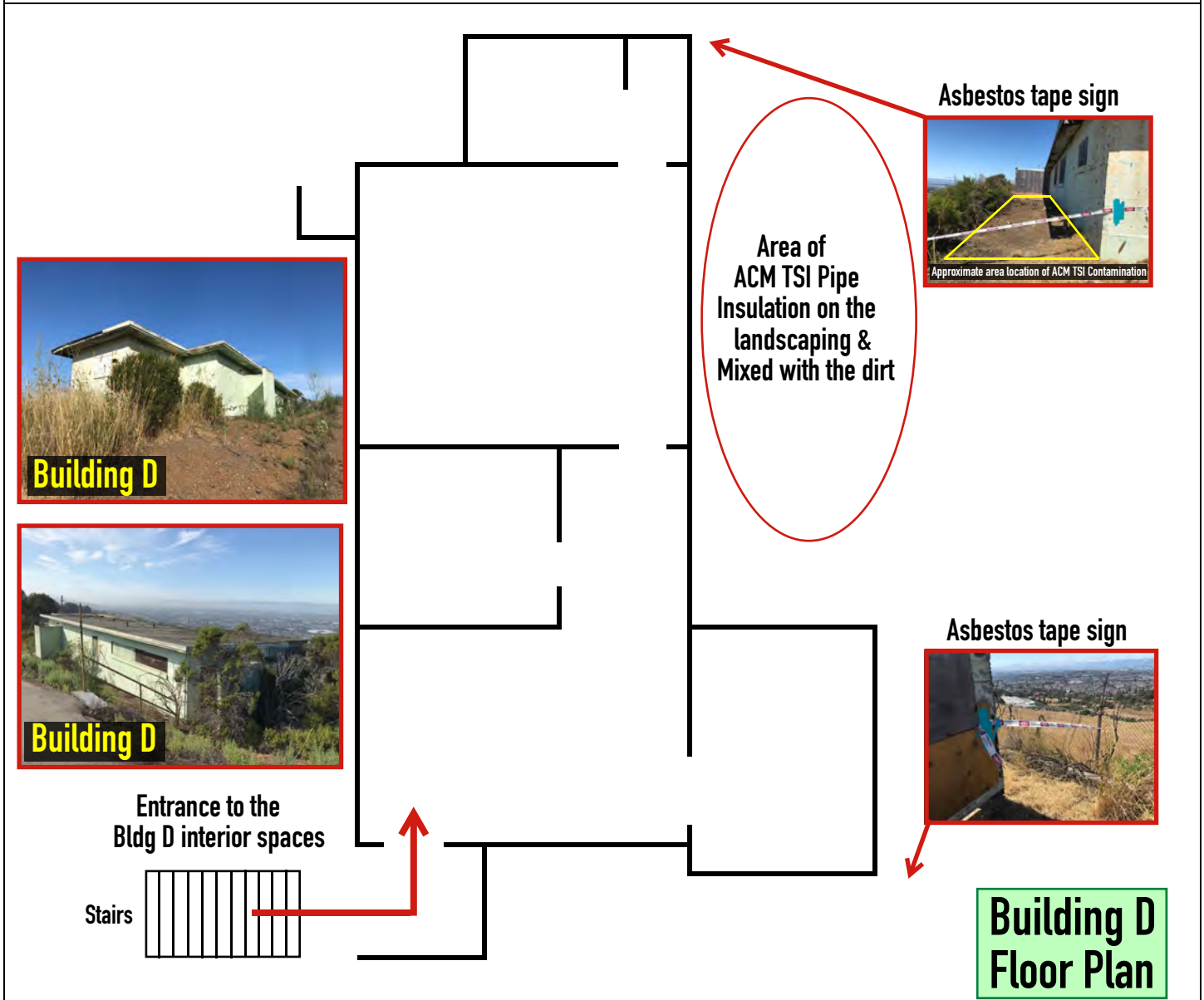
ACC Staff Signature:

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Site Photos and Diagrams

Project Information		Date:	08/02/2019 Friday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
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Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		

Site Photos and Diagrams



M. Massoud Navvab

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Site Photos and Diagrams

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Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		

N ↖

Site Photos and Diagrams

ACM TSI Pipe Insulation on the landscaping & Mixed with the dirt



[Handwritten Signature]

ACC Staff Signature:

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DAILY PROJECT REPORT

Project Information		Date:	08/05/2019 Monday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Shift Activities

Containment Setup	Containment Inspection	Bulk Material Removal	Perimeter Air Sampling	Final Detail Cleaning	Waste Load-Out	Final Visual Inspection	Final Air Clearance	Containment Tear-Down	Equipment De-Mobilize
✓	✓								
Work Area Location		General Debris Removed		Materials Removed (Asbestos & Lead)		Quantity	SF/LF		
Building D,		General Construction debris.							
Total Number of Work Areas:		1	Total Number of Containments:		1	See Notes for Additional Work Areas/ Materials Not Listed Above			
Asbestos Work Class:		Class I		✓ Class II		Class III		Unclassified	

Materials Removed

Asbestos Removal		Lead Removal		Additional Hazardous Materials	
Contractor Assistance	Roofing Materials	Lead-Based Coating/ Paint		Mercury Vapor Light Tubes	Water Damaged Materials
Spot Abatement	Miscellaneous Materials	Lead-Containing Coating/ Paint		PCB Ballasts	Mold-Impacted Materials
Ceiling Materials	Surfacing Materials	Lead Glazed Ceramic Tile		Mercury Thermostat Switches	Indoor Air Quality (IAQ)
Flooring Materials	TSI/Insulation Materials	Loose & Peeling Lead Paint			
Wall Materials		Lead Sheeting			

Contractor Information

Contractor:	Conflo Services, Inc. Abatement/Demolition		Supervisor Name:	Mario Ortega	
Crew Size	3	Total No. of Personal Samples:	0	8-hour TWA:	0
Excursion:	0				
Shift Start Time:	06:00 am	Lunch Time:	10:00 am	Shift Finish Time:	02:30 pm
Total Hours:	8.00				

Personal Protective Equipment

✓ ½ Face Respirator	✓ HEPA/ P100 Cartridges	✓ Full Body Disposable Suit	✓ Hard Hat	✓ Gloves
Full Face Respirator	Organic Vapor Cartridges	Disposable Suit w/ Hood	✓ Safety Glasses	✓ Steel Toe/Shank Boots
PAPR	Acid Gas Cartridges	✓ Neon Vest	Hearing Protection	Fall Protection
Supplied Air Respirator	Piggy-back Cartridges	Other:		

DAILY PROJECT REPORT

Project Information		Date:	08/05/2019 Monday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
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Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Air Monitoring Information

Air Sampling Performed by ACC During Shift?		Yes	<input checked="" type="checkbox"/> No	Total Number of Samples Collected:		0
# of Samples	Cassette Type	Sample Type	Sample Numbers			
Onsite PCM Analysis Performed?		Yes	No	Name of Analyst:		
Laboratory Name, City:						

Engineering Controls & Work Area Setup

<input checked="" type="checkbox"/> Negative Pressure Enclosure	Splash Guards	<input checked="" type="checkbox"/> Three-Stage w/Shower	Building Power	No Odor Mastic Remover
Mini Containment	<input checked="" type="checkbox"/> Drop Sheet	Two-Stage w/Hudson	<input checked="" type="checkbox"/> Temp Power Box	<input checked="" type="checkbox"/> Wet Removal Methods
Clean Cube	<input checked="" type="checkbox"/> View Ports	One-Stage w/Hudson	<input checked="" type="checkbox"/> Contractor Supplied Power	NPU Charcoal Filters
Glove Bags	<input checked="" type="checkbox"/> English Warning Signs	"Z" Flap Air-Locks	<input checked="" type="checkbox"/> GFCI Protection	<input checked="" type="checkbox"/> Fire Extinguishers
<input checked="" type="checkbox"/> Critical Barriers	<input checked="" type="checkbox"/> Spanish Warning Signs	No Decon Required	<input checked="" type="checkbox"/> Temporary Lighting	<input checked="" type="checkbox"/> DOP Test Air Filtration Unit
Poly Walls (min 4-mil.)	<input checked="" type="checkbox"/> Hazard Barrier Tape	Remote Shower	<input checked="" type="checkbox"/> Contractor Supplied Water	<input checked="" type="checkbox"/> DOP Test HEPA Vacuum
Poly Floors (min. 6-mil.)	<input checked="" type="checkbox"/> -0.02" Negative Pressure	<input checked="" type="checkbox"/> Separate Load-Out	NPU Exhaust Location: Out of the building	
Poly Ceiling (min 4-mil.)	-0.04" Negative Pressure	Shut Down HVAC	Other: There is NO HVAC system in the Building.	

Contractor Work Practice Information

	Yes	No	NA
Have copies of worker documents been received from the contractor in compliance with the scope of work?	<input checked="" type="checkbox"/>		
Are 'OSHA' personal air monitoring sample results being posted daily?			<input checked="" type="checkbox"/>
Are workers going through the proper decontamination sequence upon leaving the work areas?	<input checked="" type="checkbox"/>		
Are good safety practices being followed at the job site?	<input checked="" type="checkbox"/>		
Are workers demonstrating good "housekeeping" techniques?	<input checked="" type="checkbox"/>		
Is ACM (greater than >1%) being bagged and labeled as asbestos waste?			<input checked="" type="checkbox"/>
Is water being used continuously to mist air, wet materials during removal and keep waste bags/ materials saturated?	<input checked="" type="checkbox"/>		
Are waste containers properly lined with poly, labeled, sealed, secured/ locked to prevent public access?			<input checked="" type="checkbox"/>

Waste Information

Waste Type	Manifest Type	Manifest Number	Date	ID Number:
1.				
2.				
3.				
Transporter 1:				
Transporter 2:				
Designated Facility Name:				

ACTIVITIES LOG

Project Information		Date:	08/05/2019 Monday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Time: Contractor Activity / Notable Occurrence	
What Materials Are Removed - From Where - How Many Workers - Performing What Tasks - Using What Methods? Any Problems, Visitors, Complaints?	
<p>6:00 AM : Conflo Services, Inc. Abatement/Demolition crew of 3 men are onsite.</p> <p>6:15 AM : Conflo Services, Inc. Project supervisor & two crew members are planning to continue the critical barriers plastic set up on the exterior roof area of the building D, due to the roof damages & open penetrations that can not be seal from the interior of the building D.</p> <p>6:30 AM : Conflo Services, Inc. abatement crew are getting ready with PPE (Suit, 1/2 face respirators, Etc.) to continue the exterior critical barriers plastic set up work activities on the roof area. Crew are using wood panels, screws & duct tape to seal off penetrations & secure the plastic sheeting throughout the roof where the sealing of large open penetrations are taking place.</p> <p>7:00 AM : Conflo Services, Inc. abatement crew have relocated the generator to a closer location to the building D.</p> <p>7:30 AM : Conflo Services, Inc. abatement crew are continuing sealing open penetrations from the exterior of the Building D.</p> <p>8:30 AM : Conflo Services, Inc. abatement crew are continuing sealing open penetrations from the exterior of the Building D.</p> <p>9:30 AM : Conflo Services, Inc. abatement crew are continuing sealing open penetrations from the exterior of the Building D & setting up the decontamination unit.</p> <p>10:00 AM : Conflo Services, Inc. crew are leaving the job site (Bldg D, operation work area) & they are going for a lunch break.</p> <p>11:00 AM : Conflo Services, Inc. abatement crew are back from the lunch break. Crew are going to continue the decontamination unit & negative air machines set up for the Bldg D, Regulated area & to continue to secure open penetrations from inside the building D (boarded up windows) operation work area.</p> <p>11:15 AM : Jason Garrison from GSA Alameda County is visiting the job site & reviewing project work activities with Conflo onsite project supervisor as well as walk through where ACM TSI Pipe Insulation Debris on & inside the dirt next to the building D, south exterior wall was discovered.</p> <p>11:35 AM : Jason Garrison from GSA Alameda County is leaving the job site.</p> <p>12:30 PM : Conflo Services, Inc. crew completed the decontamination unit & the negative air machines set up work activities in the Building D, Conflo crew are wearing PPE (1/2 Face respirators, Suits, Etc) during the project set up work activities.</p> <p>1:00 PM : Conflo Services, Inc. crew completed critical barriers set up. ACC Onsite technician visually inspected the containment from the outside & inside, negative air machines & the negative air pressure (-0.053"H2O Hg) & the decontamination unit & find them all to be in an acceptable condition. The containment inspection is completed & is passed. ACC onsite project technician gave OK to Conflo Services, Inc. onsite project supervisor to go ahead & start the interior asbestos abatement in their own schedule.</p> <p>1:05 PM : Conflo Services, Inc. crew are going to Bldg B, to close open penetrations on the Metal Shed Exterior wall where was opened for the negative air exhausts during the Bldg B, asbestos abatement project.</p> <p>2:00 PM : Conflo Services, abatement crew are moving their equipments in to the portable metal storage area.</p> <p>2:30 PM : Conflo Services crew are leaving the job site.</p>	



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Site Photos and Diagrams

Project Information		Date:	08/05/2019 Monday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		

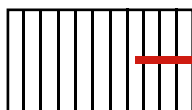
Site Photos and Diagrams

Building D Floor Plan



Entrance to the
Bldg D interior spaces

Stairs



Approximate Location of
ACM TSI Pipe Insulation Debris Contamination area



M. Massoud Navvab

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Site Photos and Diagrams



Building D, the decontamination unit & the negative air pressure



Negative Air Pressure

12:49 PM

M. Massoud Navvab

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PRE-ABATEMENT CONTAINMENT INSPECTION

Project Information		Date:	08/05/2019 Monday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		
Contractor:	Conflo Services, Inc. Abatement/Demolition	Supervisor Name:	Mario Ortega		
Type of Work:	<input checked="" type="checkbox"/> Asbestos	<input type="checkbox"/> Lead	<input type="checkbox"/> Mold	Asbestos Work Class:	<input type="checkbox"/> Class I <input checked="" type="checkbox"/> Class II <input type="checkbox"/> Class III
Containment Location:	Building D, Interiors.				

Site Observations	Yes	No	NA	Comments
Is the work area isolated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is access to work area adequately restricted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there a designated area for resting & eating with drinking water available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are OSHA notifications posted outside the work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are EPA/NESHAP notifications posted outside the work area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are site conditions or pre-existing damage noted and photographed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are EPA, UN and OSHA waste labels on-site & ready for waste containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are waste dumpsters lined with poly and labeled with OSHA warning signs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Containment Setup	Yes	No	NA	Comments
Are OSHA warning signs (English & Spanish) posted at all entrances to work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is poly sheeting flame retardant?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are 2 layers of poly (6 mil.) on the floor and 2 layers (4 mil.) on the walls?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	One layer on exterior plastic set up.
Is poly sheeting adequately secured to walls and floors?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are critical barriers installed over HVAC vents, doors, windows and other openings?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	There is NO HVAC.
Has the HVAC system been shut down, locked out?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are drop cloths in place?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are emergency exits identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there adequate lighting (200 watts/1000 square feet)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Day light & emergency lights.
Have temporary power systems equipped with GFCI been installed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Waste load-out path-of-travel protected?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is local ventilation in-place for the work activities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are extension cords safely suspended off the ground?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Negative Pressure	Yes	No	NA	Comments
Has containment passed smoke test & with no stagnant air present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If required, is a manometer installed and functioning properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has the manometer been calibrated to zero?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is negative pressure measuring to project requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has DOP testing of HEPA equipment been performed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Have failed DOP tested equipment been removed or marked to prevent use?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	



PRE-ABATEMENT CONTAINMENT INSPECTION

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Emergency and Safety Equipment	Yes	No	NA	Comments
Are SDS sheets on site and accessible?	✓			
Is there and adequate first-aid kit on site?	✓			
Are all fire extinguishers inspected (yearly and monthly) and up-to date?	✓			
Are emergency numbers posted onsite, with routes to the hospital?	✓			
Is a floor plan indicating all exits and major equipment posted?	✓			
Is the main power in the work area shutdown and locked out?	✓			
Are all electrically powered tools and equipment equipped with a waterproof GFCI?	✓			
Does all scaffolding have safety rails, toe-kicks & fall protection if necessary?			✓	

Decontamination Unit		Yes	No	NA	Comments
Chamber 1: Clean Room	Are entrance doors properly constructed?	✓			
	Are ceilings and walls covered with poly?	✓			
	Is the chamber floor free of obstructions and clutter?	✓			
	Are linens and/or towels available?	✓			
	Are the entrance flaps properly constructed?	✓			
Chamber 2: Shower	Is HOT water available?			✓	
	Are soap, shampoo, linens and/or towels available?			✓	
	Is the floor beneath the shower pan properly protected?			✓	
	Does the shower provide a good spray?			✓	
	Is water being filtered through a 3-stage to 1-micrometer filter?			✓	
Chamber 3: Dirty Room	Is there a disposal bag for protective clothing?	✓			
	Is there a drop cloth on the floor?	✓			
	Is there a positive pressure airlock attached from the work area?			✓	
Chamber 4: Equipment Decon	Is there a separate equipment decontamination chamber?			✓	
	Is there a positive pressure airlock attached from the work area?			✓	

Additional Notes and Observations
There is NO running water available @ the job site & Conflo Services, Inc. have their portable water tank to be use during the asbestos abatement & Loose & Peeling Paint stabilization for dust control & following the wet method.

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DAILY PROJECT REPORT

Project Information				Date:	08/06/2019 Tuesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.						
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Shift Activities

+ Contaminated General Construction debris & residual Loose & peeling Lead Based Paint

Containment Setup	Containment Inspection	Bulk Material Removal	Perimeter Air Sampling	Final Detail Cleaning	Waste Load-Out	Final Visual Inspection	Final Air Clearance	Containment Tear-Down	Equipment De-Mobilize
✓	✓	✓	✓		✓				
Work Area Location			General Debris Removed			Materials Removed (Asbestos & Lead)		Quantity	SF/LF
Building D, Interior.			Interior building furnitures. Wooden wall cabinets, Counter top. Wooden wall covering. Bathrooms partition walls, Etc,			9"x9" floor tiles (Various colors)& Transit panels.		1,200	SF
						Loose & Peeling Lead Based Paint residual debris		100	SF
						Contaminated General Construction debris.		200	SF
						Drywalls with ACM Joint Mudding Compound		300	SF
Total Number of Work Areas:		1	Total Number of Containments:		1	See Notes for Additional Work Areas/ Materials Not Listed Above			
Asbestos Work Class:		Class I		✓ Class II		Class III		Unclassified	

Materials Removed

✓ Asbestos Removal		✓ Lead Removal		Additional Hazardous Materials	
Contractor Assistance	Roofing Materials	Lead-Based Coating/ Paint	Mercury Vapor Light Tubes	Water Damaged Materials	
Spot Abatement	✓ Miscellaneous Materials	Lead-Containing Coating/ Paint	PCB Ballasts	Mold-Impacted Materials	
✓ Ceiling Materials	Surfacing Materials	Lead Glazed Ceramic Tile	Mercury Thermostat Switches	Indoor Air Quality (IAQ)	
✓ Flooring Materials	TSI/Insulation Materials	✓ Loose & Peeling Lead Paint			
✓ Wall Materials		Lead Sheeting			

Contractor Information

Contractor:	Conflo Services, Inc. Abatement/Demolition				Supervisor Name:	Mario Ortega		
Crew Size	4	Total No. of Personal Samples:	3	8-hour TWA:	2	Excursion:	1	
Shift Start Time:	06:00 am	Lunch Time:	10:00 am	Shift Finish Time:	02:30 pm	Total Hours:	8.00	

Personal Protective Equipment

✓ ½ Face Respirator	✓ HEPA/ P100 Cartridges	✓ Full Body Disposable Suit	✓ Hard Hat	✓ Gloves
Full Face Respirator	Organic Vapor Cartridges	Disposable Suit w/ Hood	✓ Safety Glasses	✓ Steel Toe/Shank Boots
PAPR	Acid Gas Cartridges	✓ Neon Vest	Hearing Protection	Fall Protection
Supplied Air Respirator	Piggy-back Cartridges	Other:		

DAILY PROJECT REPORT

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Air Monitoring Information

Air Sampling Performed by ACC During Shift?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Total Number of Samples Collected:		1	
# of Samples	Cassette Type	Sample Type	Sample Numbers				
1	PCM	Perimeter	A-503460				
Onsite PCM Analysis Performed?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Name of Analyst:			M.Massoud Navvab
Laboratory Name, City:							

Engineering Controls & Work Area Setup

<input checked="" type="checkbox"/> Negative Pressure Enclosure	Splash Guards	<input checked="" type="checkbox"/> Three-Stage w/Shower	Building Power	No Odor Mastic Remover
Mini Containment	<input checked="" type="checkbox"/> Drop Sheet	Two-Stage w/Hudson	<input checked="" type="checkbox"/> Temp Power Box	<input checked="" type="checkbox"/> Wet Removal Methods
Clean Cube	<input checked="" type="checkbox"/> View Ports	One-Stage w/Hudson	<input checked="" type="checkbox"/> Contractor Supplied Power	NPU Charcoal Filters
Glove Bags	<input checked="" type="checkbox"/> English Warning Signs	"Z" Flap Air-Locks	<input checked="" type="checkbox"/> GFCI Protection	<input checked="" type="checkbox"/> Fire Extinguishers
<input checked="" type="checkbox"/> Critical Barriers	<input checked="" type="checkbox"/> Spanish Warning Signs	No Decon Required	<input checked="" type="checkbox"/> Temporary Lighting	<input checked="" type="checkbox"/> DOP Test Air Filtration Unit
Poly Walls (min 4-mil.)	<input checked="" type="checkbox"/> Hazard Barrier Tape	Remote Shower	<input checked="" type="checkbox"/> Contractor Supplied Water	<input checked="" type="checkbox"/> DOP Test HEPA Vacuum
Poly Floors (min. 6-mil.)	<input checked="" type="checkbox"/> -0.02" Negative Pressure	<input checked="" type="checkbox"/> Separate Load-Out	NPU Exhaust Location: Out of the building	
Poly Ceiling (min 4-mil.)	-0.04" Negative Pressure	Shut Down HVAC	Other: There is NO HVAC system in the Building.	

Contractor Work Practice Information

	Yes	No	NA
Have copies of worker documents been received from the contractor in compliance with the scope of work?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are 'OSHA' personal air monitoring sample results being posted daily?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are workers going through the proper decontamination sequence upon leaving the work areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are good safety practices being followed at the job site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are workers demonstrating good "housekeeping" techniques?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is ACM (greater than >1%) being bagged and labeled as asbestos waste?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is water being used continuously to mist air, wet materials during removal and keep waste bags/ materials saturated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are waste containers properly lined with poly, labeled, sealed, secured/ locked to prevent public access?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Waste Information

Waste Type	Manifest Type	Manifest Number	Date	ID Number:
1.				
2.				
3.				
Transporter 1:				
Transporter 2:				
Designated Facility Name:				

ACTIVITIES LOG

Project Information		Date:	08/06/2019 Tuesday	Project Number:	2062-163.00
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Time: Contractor Activity / Notable Occurrence

What Materials Are Removed - From Where - How Many Workers - Performing What Tasks - Using What Methods?
Any Problems, Visitors, Complaints?

6:00 AM : Conflo Services, Inc. Abatement/Demolition crew (4 men) are onsite.

6:15 AM : Conflo Services, Inc. Project supervisor & three crew members with PPE (Suit, 1/2 Face respirators, Etc) are planning to continue the plastic set up between the load out access door & the FERMA Hazardous waste GREENBOX Dumpster. The path of travel from the containment in to the dumpster will be sealed with plastic & duct tape for Conflo abatement crew to be able to load all waste materials directly from the Building interior in to the dumpster that has been covered with two layers of plastic sheeting & duct tape. Conflo Services, Inc. are considering the Hazardous waste dumpster as one large plastic double bags with extra overlap plastic when the Hazardous waste dumpster is in full capacity to cover the waste with plastic & duct tape from the top to be ready for truck to be taken out of the job site following the Hazardous waste manifest sign off.

7:30 AM : Conflo Services, Inc. abatement crew with PPE (Suit, 1/2 face respirators, Etc.), have completed the plastic set up for the sealed path of travel load out from the building D containment area in to the Hazardous waste dumpster. Conflo Services, Inc. crew are taking necessary power tools (saw drill, hand tools, Etc) inside the containment area to start the asbestos abatement & the load out of the contaminated interior building furnitures, wall cabinets , Counter top, Etc. in to the Hazardous waste dumpster. Crew have water inside the containment to be used for Airless water sprayer as the wet method to control the existing dust & keeping removed waste materials wet prior to the load out. The negative air pressure is achieved.

8:30 AM : Conflo Services, Inc. abatement crew are continuing the demolition work activities & the load out work activities with PPE (Suit, 1/2 face respirators, Etc.), in the building D containment area. The negative air pressure is achieved & crew are following the wet method to control the existing dust & keeping waste materials wet.

9:30 AM : Conflo Services, Inc. crew completed the demolition of interior cabinets & Counter top. Crew are continuing with 9"x9" floor tiles removal & continuing the remaining of the load out. Crew are continuing using the Airless water sprayer equipment as the wet method to control the existing dust & keeping the operation work area wet. The negative air pressure is achieved.

10:00 AM : Conflo Services, Inc. crew are leaving the the containment area through the decontamination unit & they are going for a lunch break.

11:00 AM : Conflo Services, Inc. abatement crew are back from the lunch break. Crew are going back inside the containment area to continue the remaining of the floor tiles removal & remove remaining partition walls & Transit panels in restrooms area & continuing loading the remaining of the waste materials on the floor in to the Hazardous waste dumpster. The decontamination unit is in acceptable condition & the negative air pressure is achieved.

12:30 PM : Conflo Services, Inc. abatement crew have completed the floor tiles removal. Crew are continuing with drywalls in the ceiling area demolition throughout the containment area. There are also significant amount of Loose & Peeling Lead Based Paint are being removed with drywall ceiling as well as the fiberglass insulation in the ceiling behind drywalls. Crew Also are loading waste materials in to the remaining open space in the Hazardous waste dumpster. The negative air pressure is achieved-0.053"H2O. Crew are continuing following the wet method.

1:30 PM : Conflo Services, Inc. abatement crew have completed the drywalls in the ceiling area demolition throughout the containment area. Also the Loose & Peeling Lead Based Paint are being removed with drywalls as well. Crew have completed bagging removed drywalls & the ceiling insulation in asbestos bags crew are continuing loading removed asbestos bags in to the dumpster & the Hazardous waste dumpster is about to be full. The negative air pressure is achieved-0.055 "H2O. Crew are continuing following the wet method.

2:00 PM : Conflo Services, abatement crew have left the containment area through the decontamination unit & they are moving their equipments in to the portable metal storage area.

2:30 PM : Conflo Services crew are leaving the job site.

Building D			
Drywall and Joint Compound - Smooth	Material is Present throughout Wall Systems in Building D	RACM	Drywall: ND Joint Compound: 5% Chrysotile
Drywall and Joint Compound - Textured	Material is Present throughout Wall Systems in Building D	RACM	Drywall: ND Joint Compound: 5% Chrysotile
Drywall Texturing Material	Material is Present throughout Wall Systems in Building D	RACM	5% Chrysotile
Floor Tile System - 9" Black Tile with Black Mastic over White Tile	Material is Present throughout Building D	Cat. II	Green Tile: 5% Chrysotile White Tile: 5% Chrysotile Black Mastic: 5% Chrysotile
Floor Tile System - 9" Red Tile with Black Mastic	Material is Limited to Western Room of Building D	Cat. II	Red Tile: 5% Chrysotile Black Mastic: 5% Chrysotile
Wooden Wall Paneling Mastic - Black	Material is Limited to Wall Systems in the Northern Room of Building D	Cat. II	5% Chrysotile
Transite Paneling Material - Grey	Material is Present throughout Exterior and Restroom Areas of Building D	Cat. II	40% Chrysotile
Roof Patching Mastic - Grey/Silver	Material is Sporadically Present throughout the Roofing Level of Building D	Cat. I	10% Chrysotile

Exterior & Interior →

Exterior only →



ACC Staff Signature:

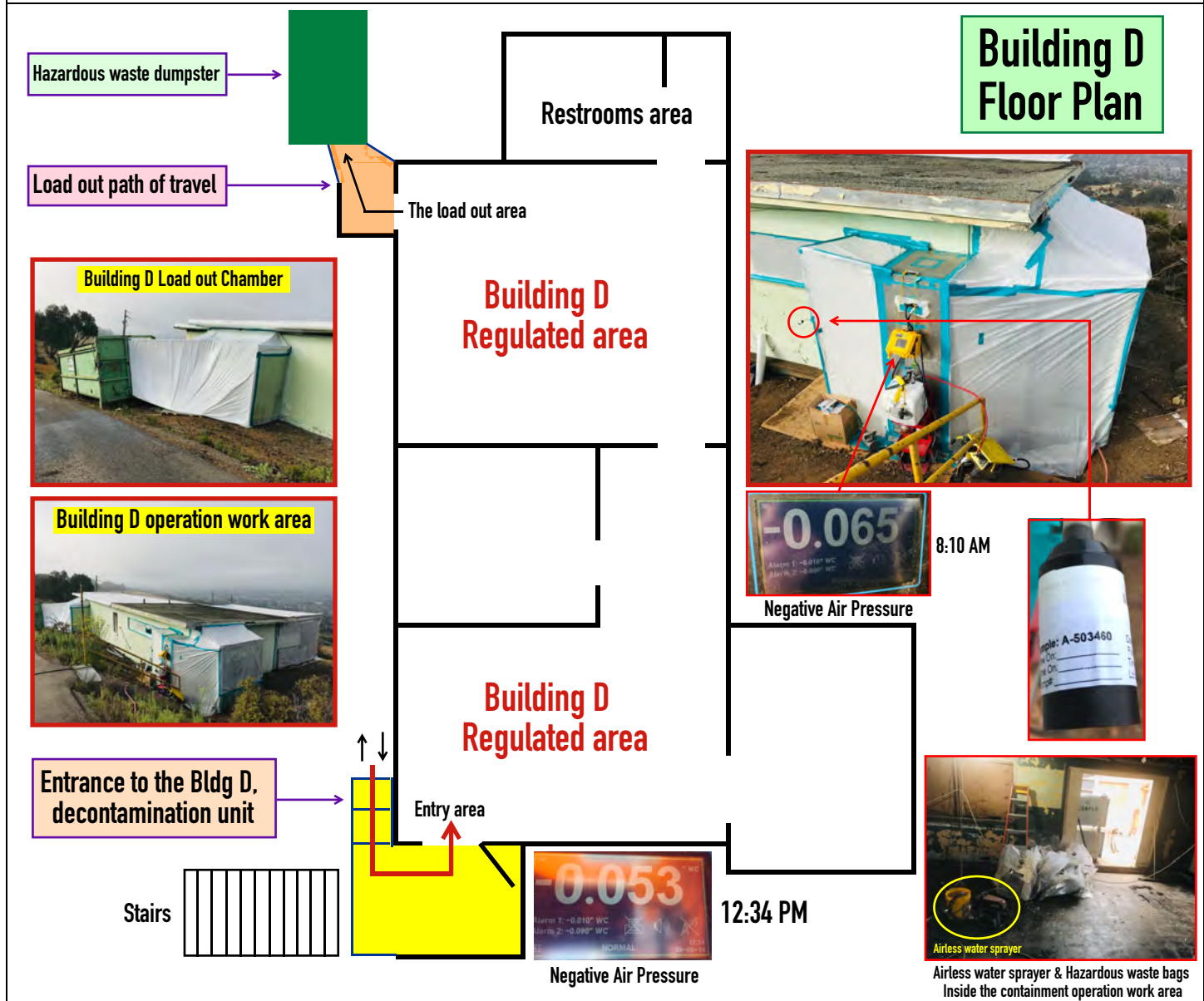
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Site Photos and Diagrams



M. Massoud Navvab

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AIR SAMPLE ANALYSIS FORM

Report To:	Stephen Jackson (OAK); Email: sjackson@accenv.com; Phone: (510) 512-8320							Turnaround Time:	Standard (3-5 Day)			
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.											
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.											
Project Number:	2062-163.00				Analysis Requested							
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)				✓ PCM: NIOSH 7400		TEM: AHERA		TEM: Level II		TEM: 7402 Method	
ACC Onsite Analysis?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Lead		Non-Viable Fungi		Other		Rotameter ID:	HF-02
Sample Number	Lab ID	Sample Type	Date Collected	LPM On LPM Off	Average LPM	Time On Time Off	Total Minutes	Total Liters	Sample Location	Fibers	Fields	
A-503460	ACC-N-10009	Perimeter	08/06/2019 Tuesday	8.76 8.76	8.76	6:45 am 01:15 pm	390	3416.40 L	Building D, Next to the north exterior wall. Entrance to the decontamination unit.	5.5	100	
Released by:					Signature:				Date:	08/06/2019	Time:	
Received by:					Signature:				Date:		Time:	
Comments:												
Laboratory Performing Analysis:												

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PRE-ABATEMENT CONTAINMENT INSPECTION

Project Information		Date:	08/06/2019 Tuesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		
Contractor:	Conflo Services, Inc. Abatement/Demolition	Supervisor Name:	Mario Ortega		
Type of Work:	<input checked="" type="checkbox"/> Asbestos	<input checked="" type="checkbox"/> Lead	<input type="checkbox"/> Mold	Asbestos Work Class:	<input type="checkbox"/> Class I <input checked="" type="checkbox"/> Class II <input type="checkbox"/> Class III
Containment Location:	Building D, Interiors.				

Site Observations	Yes	No	NA	Comments
Is the work area isolated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is access to work area adequately restricted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there a designated area for resting & eating with drinking water available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are OSHA notifications posted outside the work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are EPA/NESHAP notifications posted outside the work area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are site conditions or pre-existing damage noted and photographed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are EPA, UN and OSHA waste labels on-site & ready for waste containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are waste dumpsters lined with poly and labeled with OSHA warning signs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Containment Setup	Yes	No	NA	Comments
Are OSHA warning signs (English & Spanish) posted at all entrances to work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is poly sheeting flame retardant?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are 2 layers of poly (6 mil.) on the floor and 2 layers (4 mil.) on the walls?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	One layer, Exterior work activities.
Is poly sheeting adequately secured to walls and floors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are critical barriers installed over HVAC vents, doors, windows and other openings?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has the HVAC system been shut down, locked out?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NO HVAC System.
Are drop cloths in place?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are emergency exits identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there adequate lighting (200 watts/1000 square feet)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Day light & emergency lights.
Have temporary power systems equipped with GFCI been installed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Waste load-out path-of-travel protected?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is local ventilation in-place for the work activities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are extension cords safely suspended off the ground?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Negative Pressure	Yes	No	NA	Comments
Has containment passed smoke test & with no stagnant air present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If required, is a manometer installed and functioning properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has the manometer been calibrated to zero?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is negative pressure measuring to project requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has DOP testing of HEPA equipment been performed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Have failed DOP tested equipment been removed or marked to prevent use?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

PRE-ABATEMENT CONTAINMENT INSPECTION

Project Information		Date:	08/06/2019 Tuesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Emergency and Safety Equipment	Yes	No	NA	Comments
Are SDS sheets on site and accessible?	✓			
Is there and adequate first-aid kit on site?	✓			
Are all fire extinguishers inspected (yearly and monthly) and up-to date?	✓			
Are emergency numbers posted onsite, with routes to the hospital?	✓			
Is a floor plan indicating all exits and major equipment posted?	✓			
Is the main power in the work area shutdown and locked out?	✓			
Are all electrically powered tools and equipment equipped with a waterproof GFCI?	✓			
Does all scaffolding have safety rails, toe-kicks & fall protection if necessary?			✓	

Decontamination Unit	Yes	No	NA	Comments
Chamber 1: Clean Room	Are entrance doors properly constructed?	✓		
	Are ceilings and walls covered with poly?	✓		
	Is the chamber floor free of obstructions and clutter?	✓		
	Are linens and/or towels available?	✓		
	Are the entrance flaps properly constructed?	✓		
Chamber 2: Shower	Is HOT water available?		✓	
	Are soap, shampoo, linens and/or towels available?		✓	
	Is the floor beneath the shower pan properly protected?		✓	
	Does the shower provide a good spray?		✓	
	Is water being filtered through a 3-stage to 1-micrometer filter?		✓	
Chamber 3: Dirty Room	Is there a disposal bag for protective clothing?	✓		
	Is there a drop cloth on the floor?	✓		
	Is there a positive pressure airlock attached from the work area?		✓	
Chamber 4: Equipment Decon	Is there a separate equipment decontamination chamber?		✓	
	Is there a positive pressure airlock attached from the work area?		✓	

Additional Notes and Observations



ACC Staff Signature:

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DAILY PROJECT REPORT

Project Information		Date:	08/07/2019 Wednesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Shift Activities

Containment Setup	Containment Inspection	Bulk Material Removal	Perimeter Air Sampling	Final Detail Cleaning	Waste Load-Out	Final Visual Inspection	Final Air Clearance	Containment Tear-Down	Equipment De-Mobilize		
✓	✓	✓	✓	✓							
Work Area Location			General Debris Removed			Materials Removed (Asbestos & Lead)			Quantity	SF/LF	
Building D, Interior.			NA			ACM Drywall Joint mudding Compound.			100	SF	
						ACM Drywall texturing compound.			100	SF	
						Floor tiles Black adhesive.			1,200	SF	
Total Number of Work Areas:		1	Total Number of Containments:			1	See Notes for Additional Work Areas/ Materials Not Listed Above				
Asbestos Work Class:		Class I			✓ Class II			Class III		Unclassified	

Materials Removed

✓ Asbestos Removal		Lead Removal	Additional Hazardous Materials	
Contractor Assistance	Roofing Materials	Lead-Based Coating/ Paint	Mercury Vapor Light Tubes	Water Damaged Materials
Spot Abatement	✓ Miscellaneous Materials	Lead-Containing Coating/ Paint	PCB Ballasts	Mold-Impacted Materials
Ceiling Materials	Surfacing Materials	Lead Glazed Ceramic Tile	Mercury Thermostat Switches	Indoor Air Quality (IAQ)
✓ Flooring Materials	TSI/Insulation Materials	✓ Loose & Peeling Lead Paint		
✓ Wall Materials		Lead Sheeting		

Contractor Information

Contractor:	Conflo Services, Inc. Abatement/Demolition			Supervisor Name:	Mario Ortega		
Crew Size	4	Total No. of Personal Samples:	3	8-hour TWA:	2	Excursion:	1
Shift Start Time:	06:00 am	Lunch Time:	10:00 am	Shift Finish Time:	02:30 pm	Total Hours:	8.00

Personal Protective Equipment

✓ ½ Face Respirator	✓ HEPA/ P100 Cartridges	✓ Full Body Disposable Suit	✓ Hard Hat	✓ Gloves
Full Face Respirator	Organic Vapor Cartridges	Disposable Suit w/ Hood	✓ Safety Glasses	✓ Steel Toe/Shank Boots
PAPR	Acid Gas Cartridges	✓ Neon Vest	Hearing Protection	Fall Protection
Supplied Air Respirator	Piggy-back Cartridges	Other:		

DAILY PROJECT REPORT

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Air Monitoring Information

Air Sampling Performed by ACC During Shift?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Total Number of Samples Collected:		1	
# of Samples	Cassette Type	Sample Type	Sample Numbers				
1	PCM	Perimeter	A-503461				
Onsite PCM Analysis Performed?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Name of Analyst:			M.Massoud Navvab
Laboratory Name, City:							

Engineering Controls & Work Area Setup

<input checked="" type="checkbox"/> Negative Pressure Enclosure	<input type="checkbox"/> Splash Guards	<input checked="" type="checkbox"/> Three-Stage w/Shower	<input type="checkbox"/> Building Power	<input checked="" type="checkbox"/> No Odor Mastic Remover
<input type="checkbox"/> Mini Containment	<input checked="" type="checkbox"/> Drop Sheet	<input type="checkbox"/> Two-Stage w/Hudson	<input checked="" type="checkbox"/> Temp Power Box	<input checked="" type="checkbox"/> Wet Removal Methods
<input type="checkbox"/> Clean Cube	<input checked="" type="checkbox"/> View Ports	<input type="checkbox"/> One-Stage w/Hudson	<input checked="" type="checkbox"/> Contractor Supplied Power	<input type="checkbox"/> NPU Charcoal Filters
<input type="checkbox"/> Glove Bags	<input checked="" type="checkbox"/> English Warning Signs	<input type="checkbox"/> "Z" Flap Air-Locks	<input checked="" type="checkbox"/> GFCI Protection	<input checked="" type="checkbox"/> Fire Extinguishers
<input checked="" type="checkbox"/> Critical Barriers	<input checked="" type="checkbox"/> Spanish Warning Signs	<input type="checkbox"/> No Decon Required	<input checked="" type="checkbox"/> Temporary Lighting	<input checked="" type="checkbox"/> DOP Test Air Filtration Unit
<input type="checkbox"/> Poly Walls (min 4-mil.)	<input checked="" type="checkbox"/> Hazard Barrier Tape	<input type="checkbox"/> Remote Shower	<input checked="" type="checkbox"/> Contractor Supplied Water	<input checked="" type="checkbox"/> DOP Test HEPA Vacuum
<input type="checkbox"/> Poly Floors (min. 6-mil.)	<input checked="" type="checkbox"/> -0.02" Negative Pressure	<input checked="" type="checkbox"/> Separate Load-Out	NPU Exhaust Location: Out of the building	
<input type="checkbox"/> Poly Ceiling (min 4-mil.)	<input type="checkbox"/> -0.04" Negative Pressure	<input type="checkbox"/> Shut Down HVAC	Other: There is NO HVAC system in the Building.	

Contractor Work Practice Information

	Yes	No	NA
Have copies of worker documents been received from the contractor in compliance with the scope of work?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are 'OSHA' personal air monitoring sample results being posted daily?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are workers going through the proper decontamination sequence upon leaving the work areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are good safety practices being followed at the job site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are workers demonstrating good "housekeeping" techniques?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is ACM (greater than >1%) being bagged and labeled as asbestos waste?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is water being used continuously to mist air, wet materials during removal and keep waste bags/ materials saturated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are waste containers properly lined with poly, labeled, sealed, secured/ locked to prevent public access?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Waste Information

Waste Type	Manifest Type	Manifest Number	Date	ID Number:
1.				
2.				
3.				
Transporter 1:				
Transporter 2:				
Designated Facility Name:				

ACTIVITIES LOG

Project Information		Date:	08/07/2019 Wednesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
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Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Time: Contractor Activity / Notable Occurrence

What Materials Are Removed - From Where - How Many Workers - Performing What Tasks - Using What Methods?
Any Problems, Visitors, Complaints?

6:00 AM : Conflo Services, Inc. Abatement/Demolition crew (4 men) are onsite.

6:15 AM : Conflo Services, Inc. Project supervisor & three crew members with PPE (Suit, 1/2 Face respirators, Etc) are planning to continue & complete the drywalls with ACM Joint mudding compound & ACM Texturing Compound remaining demolition & continuing ACM Black adhesive scraping prior to the use of chemical adhesive remover throughout the containment flooring area.

7:00 AM : Conflo Services, Inc. abatement crew with PPE (Suit, 1/2 face respirators, Etc.), have completed the drywalls with ACM Joint mudding compound & ACM Texturing Compound remaining removal. All removed drywalls debris are bagged in asbestos bags & they are all stored inside the containment (restrooms area) for the next load out. Conflo Services, Inc. Abatement/Demolition crew are continuing with ACM Black adhesive scraping where the damaged roof was removed prior to the use of chemical adhesive remover inside the containment designated location flooring area. Crew have Airless water sprayer inside the containment to be used as the wet method to control the existing dust & keeping removed waste materials wet. The negative air pressure is achieved (-0.049" H2O Hg).

8:30 AM : Conflo Services, Inc. Abatement/Demolition crew with PPE (Suit, 1/2 face respirators, Etc.), are continuing the Black adhesive removal & detail clean up work activities in the building D containment area designated location. The negative air pressure is achieved. Crew are continuing using the Airless water sprayer equipment as the wet method to control the existing dust & keeping the operation work area wet. The negative air pressure is achieved.

9:55 AM : Conflo Services, Inc. Abatement/Demolition crew have completed the black adhesive removal & the detail clean up in the designated location inside the containment area. Crew are leaving the the containment area through the decontamination unit & they are going for a lunch break.

11:00 AM : Conflo Services, Inc. Abatement/Demolition crew are back from the lunch break. Crew are going back inside the containment area to continue the remaining of the flooring ACM Black Adhesive removal & detail clean up from the flooring next to restrooms area. The decontamination unit is in acceptable condition & the negative air pressure is achieved.

12:30 PM : Conflo Services, Inc. crew with PPE (Suit, 1/2 face respirators, Etc.), are continuing the Black adhesive removal & detail clean up work activities in the building D containment area throughout remaining locations. The negative air pressure is achieved. Crew are continuing using the Airless water sprayer equipment as the wet method to control the existing dust & keeping the operation work area wet. The negative air pressure is achieved (-0.047" H2O Hg).

1:50 PM : Conflo Services, Inc. Abatement/Demolition crew with PPE (Suit, 1/2 face respirators, Etc.), are continuing the Black adhesive removal & detail clean up work activities in the building D containment area by the lobby entrance. The negative air pressure is achieved -0.048" H2O. Crew are continuing using hand tools to detail the slab concrete flooring area also the Airless water sprayer equipment as the wet method to control the existing dust & keeping the operation work area wet is in full operation.

2:15 PM : Conflo Services, Inc. Abatement/Demolition crew have left the containment area through the decontamination unit & they are moving their equipments in to the portable metal storage area.

2:30 PM : Conflo Services crew are leaving the job site.

Building D			
Drywall and Joint Compound - Smooth	Material is Present throughout Wall Systems in Building D	RACM	Drywall: ND Joint Compound: 5% Chrysotile
Drywall and Joint Compound - Textured	Material is Present throughout Wall Systems in Building D	RACM	Drywall: ND Joint Compound: 5% Chrysotile
Drywall Texturing Material	Material is Present throughout Wall Systems in Building D	RACM	5% Chrysotile
Floor Tile System - 9" Black Tile with Black Mastic over White Tile	Material is Present throughout Building D	Cat. II	Green Tile: 5% Chrysotile White Tile: 5% Chrysotile Black Mastic: 5% Chrysotile
Floor Tile System - 9" Red Tile with Black Mastic	Material is Limited to Western Room of Building D	Cat. II	Red Tile: 5% Chrysotile Black Mastic: 5% Chrysotile
Wooden Wall Paneling Mastic - Black	Material is Limited to Wall Systems in the Northern Room of Building D	Cat. II	5% Chrysotile
Transite Paneling Material - Grey	Material is Present throughout Exterior and Restroom Areas of Building D	Cat. II	40% Chrysotile
Roof Patching Mastic - Grey/Silver	Material is Sporadically Present throughout the Roofing Level of Building D	Cat. I	10% Chrysotile



ACC Staff Signature:

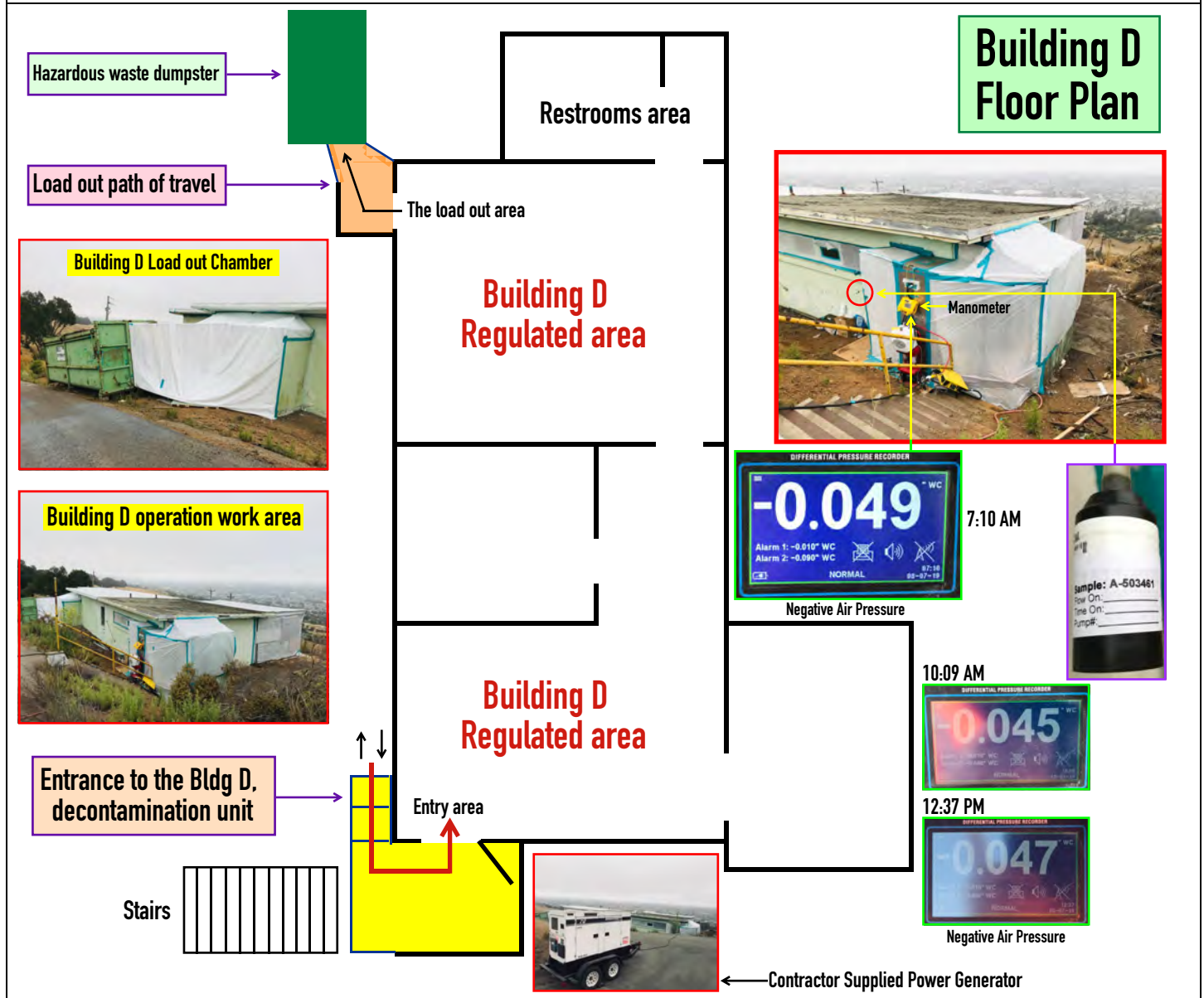
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Site Photos and Diagrams

Project Information		Date:	08/07/2019 Wednesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.				
Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		

Site Photos and Diagrams



M. Massoud Navvab

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Site Photos and Diagrams

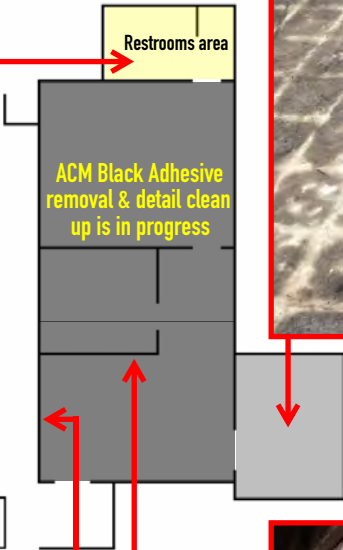
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Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		


Site Photos and Diagrams



Asbestos bags are stored in restrooms area


**Building D
Regulated area**






Completion of the ACM 9"x9" Floor tiles & ACM Black Adhesive removal & Final detail clean up

ACM Black Adhesive on CMU Wall



ACM Black Adhesive on CMU Wall



M. Massoud Navvab

ACC Staff Signature:

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PRE-ABATEMENT CONTAINMENT INSPECTION

Project Information		Date:	08/07/2019 Wednesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
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Contractor:	Conflo Services, Inc. Abatement/Demolition	Supervisor Name:	Mario Ortega		
Type of Work:	<input checked="" type="checkbox"/> Asbestos	<input type="checkbox"/> Lead	<input type="checkbox"/> Mold	Asbestos Work Class:	<input type="checkbox"/> Class I <input checked="" type="checkbox"/> Class II <input type="checkbox"/> Class III
Containment Location:	Building D, Interiors.				

Site Observations	Yes	No	NA	Comments
Is the work area isolated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is access to work area adequately restricted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there a designated area for resting & eating with drinking water available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are OSHA notifications posted outside the work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are EPA/NESHAP notifications posted outside the work area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are site conditions or pre-existing damage noted and photographed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are EPA, UN and OSHA waste labels on-site & ready for waste containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are waste dumpsters lined with poly and labeled with OSHA warning signs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Containment Setup	Yes	No	NA	Comments
Are OSHA warning signs (English & Spanish) posted at all entrances to work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is poly sheeting flame retardant?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are 2 layers of poly (6 mil.) on the floor and 2 layers (4 mil.) on the walls?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	One layer, Exterior work activities.
Is poly sheeting adequately secured to walls and floors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are critical barriers installed over HVAC vents, doors, windows and other openings?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has the HVAC system been shut down, locked out?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NO HVAC System.
Are drop cloths in place?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are emergency exits identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there adequate lighting (200 watts/1000 square feet)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Day light & emergency lights.
Have temporary power systems equipped with GFCI been installed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Waste load-out path-of-travel protected?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is local ventilation in-place for the work activities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are extension cords safely suspended off the ground?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Negative Pressure	Yes	No	NA	Comments
Has containment passed smoke test & with no stagnant air present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If required, is a manometer installed and functioning properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has the manometer been calibrated to zero?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is negative pressure measuring to project requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has DOP testing of HEPA equipment been performed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Have failed DOP tested equipment been removed or marked to prevent use?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

PRE-ABATEMENT CONTAINMENT INSPECTION

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Emergency and Safety Equipment	Yes	No	NA	Comments
Are SDS sheets on site and accessible?	✓			
Is there and adequate first-aid kit on site?	✓			
Are all fire extinguishers inspected (yearly and monthly) and up-to date?	✓			
Are emergency numbers posted onsite, with routes to the hospital?	✓			
Is a floor plan indicating all exits and major equipment posted?	✓			
Is the main power in the work area shutdown and locked out?	✓			
Are all electrically powered tools and equipment equipped with a waterproof GFCI?	✓			
Does all scaffolding have safety rails, toe-kicks & fall protection if necessary?			✓	

Decontamination Unit	Yes	No	NA	Comments
Chamber 1: Clean Room	Are entrance doors properly constructed?	✓		
	Are ceilings and walls covered with poly?	✓		
	Is the chamber floor free of obstructions and clutter?	✓		
	Are linens and/or towels available?	✓		
	Are the entrance flaps properly constructed?	✓		
Chamber 2: Shower	Is HOT water available?		✓	
	Are soap, shampoo, linens and/or towels available?		✓	
	Is the floor beneath the shower pan properly protected?		✓	
	Does the shower provide a good spray?		✓	
	Is water being filtered through a 3-stage to 1-micrometer filter?		✓	
Chamber 3: Dirty Room	Is there a disposal bag for protective clothing?	✓		
	Is there a drop cloth on the floor?	✓		
	Is there a positive pressure airlock attached from the work area?		✓	
Chamber 4: Equipment Decon	Is there a separate equipment decontamination chamber?		✓	
	Is there a positive pressure airlock attached from the work area?		✓	

Additional Notes and Observations



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AIR SAMPLE ANALYSIS FORM

Report To:	Stephen Jackson (OAK); Email: sjackson@accenv.com; Phone: (510) 512-8320						Turnaround Time:	Standard (3-5 Day)				
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.											
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.											
Project Number:	2062-163.00				Analysis Requested							
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)				✓ PCM: NIOSH 7400		TEM: AHERA		TEM: Level II		TEM: 7402 Method	
ACC Onsite Analysis?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Lead		Non-Viable Fungi		Other		Rotameter ID: HF-02	
Sample Number	Lab ID	Sample Type	Date Collected	LPM On LPM Off	Average LPM	Time On Time Off	Total Minutes	Total Liters	Sample Location	Fibers	Fields	
A-503461	ACC-N-10010	Perimeter	08/07/2019 Wednesday	8.76 8.76	8.76	6:35 am 12:50 pm	375	3285 L	Building D, Next to the north exterior wall. Entrance to the decontamination unit.	5.5	100	
Released by:					Signature:				Date:	08/07/2019	Time:	
Received by:					Signature:				Date:		Time:	
Comments:												
Laboratory Performing Analysis:												

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 Southern California: 1055 Wilshire Boulevard, Suite 1450 • Los Angeles, California 90017 • (213) 353-1240 • Fax (213) 353-1244

DAILY PROJECT REPORT

Project Information			Date:	08/08/2019 Thursday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.					
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shack structure by the gate.					
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)			Project Manager:	Stephen Jackson (OAK)	

Shift Activities

Contaminated General Construction debris
& residual Loose & peeling Lead Based Paint

Containment Setup	Containment Inspection	Bulk Material Removal	Perimeter Air Sampling	Final Detail Cleaning	Waste Load-Out	Final Visual Inspection	Final Air Clearance	Containment Tear-Down	Equipment De-Mobilize
✓	✓	✓	✓	✓	✓	✓	✓	✓	
Work Area Location			General Debris Removed			Materials Removed (Asbestos & Lead)			Quantity SF/LF
Building D, Interior.			NA			Flooring remaining Floor tiles Black Adhesive			100 SF
						Wall board Black adhesive on CMU Wall.			200 SF
						Loose & Peeling Lead Based Paint remaining.			100 SF
Guard Shack interior & the exterior.			General Construction Debris.			Loose & Peeling Lead Based Paint remaining.			100 SF
Total Number of Work Areas:		2	Total Number of Containments:		2	See Notes for Additional Work Areas/ Materials Not Listed Above			
Asbestos Work Class:		Class I		✓ Class II		Class III		Unclassified	

Materials Removed

✓ Asbestos Removal		✓ Lead Removal		Additional Hazardous Materials	
Contractor Assistance	Roofing Materials	Lead-Based Coating/ Paint	Mercury Vapor Light Tubes	Water Damaged Materials	
Spot Abatement	✓ Miscellaneous Materials	Lead-Containing Coating/ Paint	PCB Ballasts	Mold-Impacted Materials	
✓ Ceiling Materials	Surfacing Materials	Lead Glazed Ceramic Tile	Mercury Thermostat Switches	Indoor Air Quality (IAQ)	
✓ Flooring Materials	TSI/Insulation Materials	✓ Loose & Peeling Lead Paint			
✓ Wall Materials		Lead Sheeting			

Contractor Information

Contractor:	Conflo Services, Inc. Abatement/Demolition			Supervisor Name:	Mario Ortega		
Crew Size	4	Total No. of Personal Samples:	3	8-hour TWA:	2	Excursion:	1
Shift Start Time:	06:00 am	Lunch Time:	09:30 am	Shift Finish Time:	02:30 pm	Total Hours:	8.00

Personal Protective Equipment

✓ ½ Face Respirator	✓ HEPA/ P100 Cartridges	✓ Full Body Disposable Suit	✓ Hard Hat	✓ Gloves
Full Face Respirator	Organic Vapor Cartridges	Disposable Suit w/ Hood	✓ Safety Glasses	✓ Steel Toe/Shank Boots
PAPR	Acid Gas Cartridges	✓ Neon Vest	Hearing Protection	Fall Protection
Supplied Air Respirator	Piggy-back Cartridges	Other:		

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Air Monitoring Information

Air Sampling Performed by ACC During Shift?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Total Number of Samples Collected:		1	
# of Samples	Cassette Type	Sample Type	Sample Numbers				
1	PCM	Perimeter	A-503462				
3	PCM	Clearance	A-503463	A-503464	A-503465		
Onsite PCM Analysis Performed?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Name of Analyst:		M.Massoud Navvab	
Laboratory Name, City:		RUSH Onsite Analyses					

Engineering Controls & Work Area Setup

<input checked="" type="checkbox"/> Negative Pressure Enclosure	Splash Guards	<input checked="" type="checkbox"/> Three-Stage w/Shower	Building Power	No Odor Mastic Remover
Mini Containment	<input checked="" type="checkbox"/> Drop Sheet	Two-Stage w/Hudson	<input checked="" type="checkbox"/> Temp Power Box	<input checked="" type="checkbox"/> Wet Removal Methods
Clean Cube	<input checked="" type="checkbox"/> View Ports	One-Stage w/Hudson	<input checked="" type="checkbox"/> Contractor Supplied Power	NPU Charcoal Filters
Glove Bags	<input checked="" type="checkbox"/> English Warning Signs	"Z" Flap Air-Locks	<input checked="" type="checkbox"/> GFCI Protection	<input checked="" type="checkbox"/> Fire Extinguishers
<input checked="" type="checkbox"/> Critical Barriers	<input checked="" type="checkbox"/> Spanish Warning Signs	No Decon Required	<input checked="" type="checkbox"/> Temporary Lighting	<input checked="" type="checkbox"/> DOP Test Air Filtration Unit
Poly Walls (min 4-mil.)	<input checked="" type="checkbox"/> Hazard Barrier Tape	Remote Shower	<input checked="" type="checkbox"/> Contractor Supplied Water	<input checked="" type="checkbox"/> DOP Test HEPA Vacuum
Poly Floors (min. 6-mil.)	<input checked="" type="checkbox"/> -0.02" Negative Pressure	<input checked="" type="checkbox"/> Separate Load-Out	NPU Exhaust Location: Out of the building	
Poly Ceiling (min 4-mil.)	-0.04" Negative Pressure	Shut Down HVAC	Other: There is NO HVAC system in the Building.	

Contractor Work Practice Information

	Yes	No	NA
Have copies of worker documents been received from the contractor in compliance with the scope of work?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are 'OSHA' personal air monitoring sample results being posted daily?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are workers going through the proper decontamination sequence upon leaving the work areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are good safety practices being followed at the job site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are workers demonstrating good "housekeeping" techniques?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is ACM (greater than >1%) being bagged and labeled as asbestos waste?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is water being used continuously to mist air, wet materials during removal and keep waste bags/ materials saturated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are waste containers properly lined with poly, labeled, sealed, secured/ locked to prevent public access?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Waste Information

Waste Type	Manifest Type	Manifest Number	Date	ID Number:
1.				
2.				
3.				
Transporter 1:				
Transporter 2:				
Designated Facility Name:				

ACTIVITIES LOG

Project Information		Date:	08/08/2019 Thursday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
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Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Time: Contractor Activity / Notable Occurrence

What Materials Are Removed - From Where - How Many Workers - Performing What Tasks - Using What Methods?
Any Problems, Visitors, Complaints?

6:00 AM : Conflo Services, Inc. Abatement/Demolition crew (4 men) are onsite.

6:15 AM : Conflo Services, Inc. Project supervisor & three crew members with PPE (Suit, 1/2 Face respirators, Etc) are planning to continue & complete the remaining of the ACM Black adhesive removal & the detail clean up with liquid black adhesive remover. Crew also are going to remove the wall board ACM Black Adhesive remaining on CMU walls prior to the final detail clean up throughout the containment area

6:30 AM : Conflo Services, Inc. Abatement/Demolition crew with PPE (Suit, 1/2 face respirators, Etc.), are inside the containment area. Conflo Services, Inc. Abatement/Demolition crew are continuing with ACM Black adhesive removal & the detail clean up with liquid black adhesive remover. Crew have Airless water sprayer inside the containment to be used as the wet method to control the existing dust & keeping removed waste materials wet. The negative air pressure is achieved (-0.053" H2O Hg).

8:30 AM : Conflo Services, Inc. Abatement/Demolition crew with PPE (Suit, 1/2 face respirators, Etc.), are continuing the Black adhesive removal & detail clean up work activities in the building D containment area designated location. The negative air pressure is achieved. Crew are continuing using the Airless water sprayer equipment as the wet method to control the existing dust & keeping the operation work area wet. The negative air pressure is achieved.

9:15 AM : Conflo Services, Inc. Abatement/Demolition crew have completed the black adhesive removal & the detail clean up as well as interior only ACM Transit panels removal & wall panels ACM Black Adhesive on CMU walls removal & the detail clean up & Loose & Peeling Lead Based Paint removal & interior walls Loose & Peeling Lead Based Paint stabilization throughout the containment interior CMU Walls & cementitious walls in restrooms area. ACC Onsite technician visually inspected the containment area throughout the interior walls & flooring. The Final Visual Inspection is completed & is passed. ACC Onsite Project technician gave OK to Conflo Services, Inc, onsite project supervisor to go ahead & encapsulate throughout the building D interior spaces.

9:25 AM : The final encapsulation is completed & Conflo Services, Inc. Abatement/Demolition crew are leaving the the containment area through the decontamination unit & they are going for a lunch break.

9:45 AM : ACC Onsite project technician have started the final clearance inside the Building D, Containment area.

10:30 AM : Conflo Services, Inc. Abatement/Demolition crew are back from the lunch break. Crew are going with PPE (Suit, 1/2 face respirators, Etc.), to Guard Shack structure to start the plastic set up prior to the interior & the exterior Loose & Peeling Lead Based Paint residual dust & debris stabilization & complete the General Construction debris demolition inside the Guard Shack as well as the exterior & complete the ACM Roof Patching Compound removal & the detail clean up.

12:15 PM : ACC Project technician have completed the final PCM Clearance inside the building D, containment area. One perimeter PCM Air Sample & 3 PCM Clearance Air Sampling cassettes has been analyzed onsite & Clearance is completed & is passed. ACC Onsite project technician gave the passed PCM Clearance verbal test results to Conflo Services onsite project supervisor for the regulated area plastic tear down in the building D.

1:00 PM : Conflo Services, Inc.crew with PPE (Suit, 1/2 face respirators, Etc.), have completed the interior & the exterior Loose & Peeling Lead Based Paint residual dust & debris removal & the Lead Based Paint stabilization & complete the General Construction debris demolition inside the Guard Shack as well as the exterior & complete the ACM Roof Patching Compound removal & the detail clean up. ACC Onsite technician visually inspected the Gaurd Shack area throughout the interior walls & flooring & exterior CMU walls & roof Eves & the roof area. The Final Visual Inspection is completed & is passed. ACC Onsite Project technician gave OK to Conflo Services, Inc, onsite project supervisor to go ahead & to use the primer paint & seal all walls, wooden door frames & wooden window frames,Exterior roof Eve, Etc that the Loose & Peeling Lead Based Paint are removed & Lead Based Paint on surfaces are stabilized throughout the Gaurd Shack interior & Exterior structures.

1:16 PM : Conflo Services, Inc. Abatement/Demolition crew with PPE (Suit, 1/2 face respirators, Etc. are going to Building D, to tear down plastic through out the containment & remove the decontamination unit & mobilize their equipments from the building interior area.

2:15 PM : Conflo Services, Inc. Abatement/Demolition crew are moving their equipments in to the portable metal storage area.

2:30 PM : Conflo Services crew are leaving the job site.



ACC Staff Signature:

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PRE-ABATEMENT CONTAINMENT INSPECTION

Project Information		Date:	08/08/2019 Thursday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shack structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		
Contractor:	Conflo Services, Inc. Abatement/Demolition	Supervisor Name:	Mario Ortega		
Type of Work:	<input checked="" type="checkbox"/> Asbestos	<input checked="" type="checkbox"/> Lead	<input type="checkbox"/> Mold	Asbestos Work Class:	<input type="checkbox"/> Class I <input checked="" type="checkbox"/> Class II <input type="checkbox"/> Class III
Containment Location:	Building D, Interiors.				

Site Observations	Yes	No	NA	Comments
Is the work area isolated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is access to work area adequately restricted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there a designated area for resting & eating with drinking water available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are OSHA notifications posted outside the work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are EPA/NESHAP notifications posted outside the work area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are site conditions or pre-existing damage noted and photographed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are EPA, UN and OSHA waste labels on-site & ready for waste containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are waste dumpsters lined with poly and labeled with OSHA warning signs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Containment Setup	Yes	No	NA	Comments
Are OSHA warning signs (English & Spanish) posted at all entrances to work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is poly sheeting flame retardant?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are 2 layers of poly (6 mil.) on the floor and 2 layers (4 mil.) on the walls?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	One layer, Exterior work activities.
Is poly sheeting adequately secured to walls and floors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are critical barriers installed over HVAC vents, doors, windows and other openings?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has the HVAC system been shut down, locked out?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NO HVAC System.
Are drop cloths in place?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are emergency exits identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there adequate lighting (200 watts/1000 square feet)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Day light & emergency lights.
Have temporary power systems equipped with GFCI been installed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Waste load-out path-of-travel protected?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is local ventilation in-place for the work activities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are extension cords safely suspended off the ground?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Negative Pressure	Yes	No	NA	Comments
Has containment passed smoke test & with no stagnant air present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If required, is a manometer installed and functioning properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has the manometer been calibrated to zero?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is negative pressure measuring to project requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has DOP testing of HEPA equipment been performed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Have failed DOP tested equipment been removed or marked to prevent use?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

PRE-ABATEMENT CONTAINMENT INSPECTION

Project Information		Date:	08/08/2019 Thursday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shack structure by the gate.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Emergency and Safety Equipment	Yes	No	NA	Comments
Are SDS sheets on site and accessible?	✓			
Is there and adequate first-aid kit on site?	✓			
Are all fire extinguishers inspected (yearly and monthly) and up-to date?	✓			
Are emergency numbers posted onsite, with routes to the hospital?	✓			
Is a floor plan indicating all exits and major equipment posted?	✓			
Is the main power in the work area shutdown and locked out?	✓			
Are all electrically powered tools and equipment equipped with a waterproof GFCI?	✓			
Does all scaffolding have safety rails, toe-kicks & fall protection if necessary?			✓	

Decontamination Unit	Yes	No	NA	Comments
Chamber 1: Clean Room	Are entrance doors properly constructed?	✓		
	Are ceilings and walls covered with poly?	✓		
	Is the chamber floor free of obstructions and clutter?	✓		
	Are linens and/or towels available?	✓		
	Are the entrance flaps properly constructed?	✓		
Chamber 2: Shower	Is HOT water available?		✓	
	Are soap, shampoo, linens and/or towels available?		✓	
	Is the floor beneath the shower pan properly protected?		✓	
	Does the shower provide a good spray?		✓	
	Is water being filtered through a 3-stage to 1-micrometer filter?		✓	
Chamber 3: Dirty Room	Is there a disposal bag for protective clothing?	✓		
	Is there a drop cloth on the floor?	✓		
	Is there a positive pressure airlock attached from the work area?		✓	
Chamber 4: Equipment Decon	Is there a separate equipment decontamination chamber?		✓	
	Is there a positive pressure airlock attached from the work area?		✓	

Additional Notes and Observations



ACC Staff Signature:

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FINAL VISUAL INSPECTION

Project Information			Date:	08/08/2019 Thursday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.					
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shack structure by the gate.					
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)		Project Manager:	Stephen Jackson (OAK)		
Contractor:	Conflo Services, Inc. Abatement/Demolition		Supervisor Name:	Mario Ortega		
Type of Work:	<input checked="" type="checkbox"/> Asbestos	<input checked="" type="checkbox"/> Lead	Mold	Time of Inspection:	09:15 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
Materials Removed:	ACM Drywalls Joint mudding Compound, ACM Drywalls texturing Compound, ACM 9"x9" (Various Colors) Floor tiles & ACM Black Adhesive, Wooden Wall board Black Adhesive, ACM Transit Panels, Loose & Peeling Lead Based Paint.					
Containment Location:	Building D, Interiors.					
Visual Inspection:	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail	Was the Contractor's Supervisor present during the inspection?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

If Failed, please give a short explanation as to why:					
Please check off any possible contributing factors:			Debris Remaining	Bulk Material Remaining	Inadequate Equipment
Photos of deficiencies collected?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Inadequate Lighting		

Contractor's Certification		Owners Representative Certification	
In accordance with Project Decontamination requirements for project, the abatement contractor hereby certifies they have visually inspected ALL work area surfaces and have found no visible dust, debris or residue.		ACC Environmental Consultants, Inc., hereby certifies that we have accompanied the Contractor on the final visual inspection and verified the inspection to be thorough, and to the best of our knowledge, the Contractor's adjacent statement is a true and honest one.	
Signature:		Signature:	
Print Name:	Mario Ortega	Print Name:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)
Print Title:	Project Supervisor	Print Title:	Project Technician
Company:	Conflo Services, Inc. Abatement/Demolition	Company:	ACC Environmental Consultants, Inc.

Clearance Sampling Summary

Sample Date	Sample Number	Sample Location	Total Volume in Liters (L)	Result	Pass/Fail
08/08/2019	A-503463	Building D, Inside the Containment area, entry open hall, North Section.	1915.20 L	0.001 f/cc	PASS
08/08/2019	A-503464	Building D, Inside the Containment area, entry open hall, North Section.	1915.20 L	0.001 f/cc	PASS
08/08/2019	A-503465	Building D, Inside the Containment area, Southeast Section, close to Restrooms are	1915.20 L	0.001 f/cc	PASS
	No Sample				
	No Sample				
	No Sample				
	No Sample				

Air Sampling Passed?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Visual Inspection Only		
Clearance Criteria:	<input checked="" type="checkbox"/> PCM (<0.01 f/cc)	TEM AHERA (<70s/mm ²)	Mold	Other:	
Comments:					



FINAL VISUAL INSPECTION

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Contractor:	Conflo Services, Inc. Abatement/Demolition			Supervisor Name:	Mario Ortega		
Type of Work:	<input checked="" type="checkbox"/> Asbestos	<input checked="" type="checkbox"/> Lead	<input type="checkbox"/> Mold	Time of Inspection:	1:00	AM	<input checked="" type="checkbox"/> PM
Materials Removed:	Loose & Peeling Lead Based Paint & ACM Roof Patching Compound.						
Containment Location:	Gaurd Shack Interior & Exterior structure including the roof structure.						
Visual Inspection:	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail	Was the Contractor's Supervisor present during the inspection?			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

If Failed, please give a short explanation as to why:			
Please check off any possible contributing factors:		<input type="checkbox"/> Debris Remaining	<input type="checkbox"/> Bulk Material Remaining
Photos of deficiencies collected?		<input type="checkbox"/> Inadequate Lighting	<input type="checkbox"/> Inadequate Equipment

Contractor's Certification		Owners Representative Certification	
In accordance with Project Decontamination requirements for project, the abatement contractor hereby certifies they has visually inspected ALL work area surfaces and have found no visible dust, debris or residue.		ACC Environmental Consultants, Inc., hereby certifies that we have accompanied the Contractor on the final visual inspection and verified the inspection to be thorough, and to the best of our knowledge, the Contractor's adjacent statement is a true and honest one.	
Signature:		Signature:	
Print Name:	Mario Ortega	Print Name:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)
Print Title:	Project Supervisor	Print Title:	Project Technician
Company:	Conflo Services, Inc. Abatement/Demolition	Company:	ACC Environmental Consultants, Inc.

Clearance Sampling Summary

Sample Date	Sample Number	Sample Location	Total Volume in Liters (L)	Result	Pass/Fail
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				

Air Sampling Passed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Visual Inspection Only		
Clearance Criteria:	PCM (<0.01 f/cc)		TEM AHERA (<70s/mm ²)	Mold	Other:
Comments:					



AIR SAMPLE ANALYSIS FORM

Report To:	Stephen Jackson (OAK); Email: sjackson@accenv.com; Phone: (510) 512-8320						Turnaround Time:	On-Site [RUSH]				
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.											
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ACC Onsite Analysis?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Lead		Non-Viable Fungi		Other		Rotameter ID:	HF-02
Sample Number	Lab ID	Sample Type	Date Collected	LPM On LPM Off	Average LPM	Time On Time Off	Total Minutes	Total Liters	Sample Location	Fibers	Fields	
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				8.76		09:30 am				0.002 f/cc		
A-503463	ACC-N-10012	Clearance	08/08/2019 Thursday	13.68	13.68	09:38 am	140	1915.20 L	Building D, Inside the Containment area, entry open hall, North Section.	5.5	100	
				13.68		11:58 am				0.001 f/cc		
A-503464	ACC-N-10013	Clearance	08/08/2019 Thursday	13.68	13.68	09:39 am	140	1915.20 L	Building D, Inside the Containment area, Middle Section.	5.5	100	
				13.68		11:59 am				0.001 f/cc		
A-503465	ACC-N-10014	Clearance	08/08/2019 Thursday	13.68	13.68	09:40 am	140	1915.20 L	Building D, Inside the Containment area, Southeast Section, close to Restrooms area.	5.5	100	
				13.68		12:00 pm				0.001 f/cc		
No Sample												
No Sample												
No Sample												
Released by:					Signature:				Date:	08/08/2019	Time:	
Received by:					Signature:				Date:		Time:	
Comments:												
Laboratory Performing Analysis:												

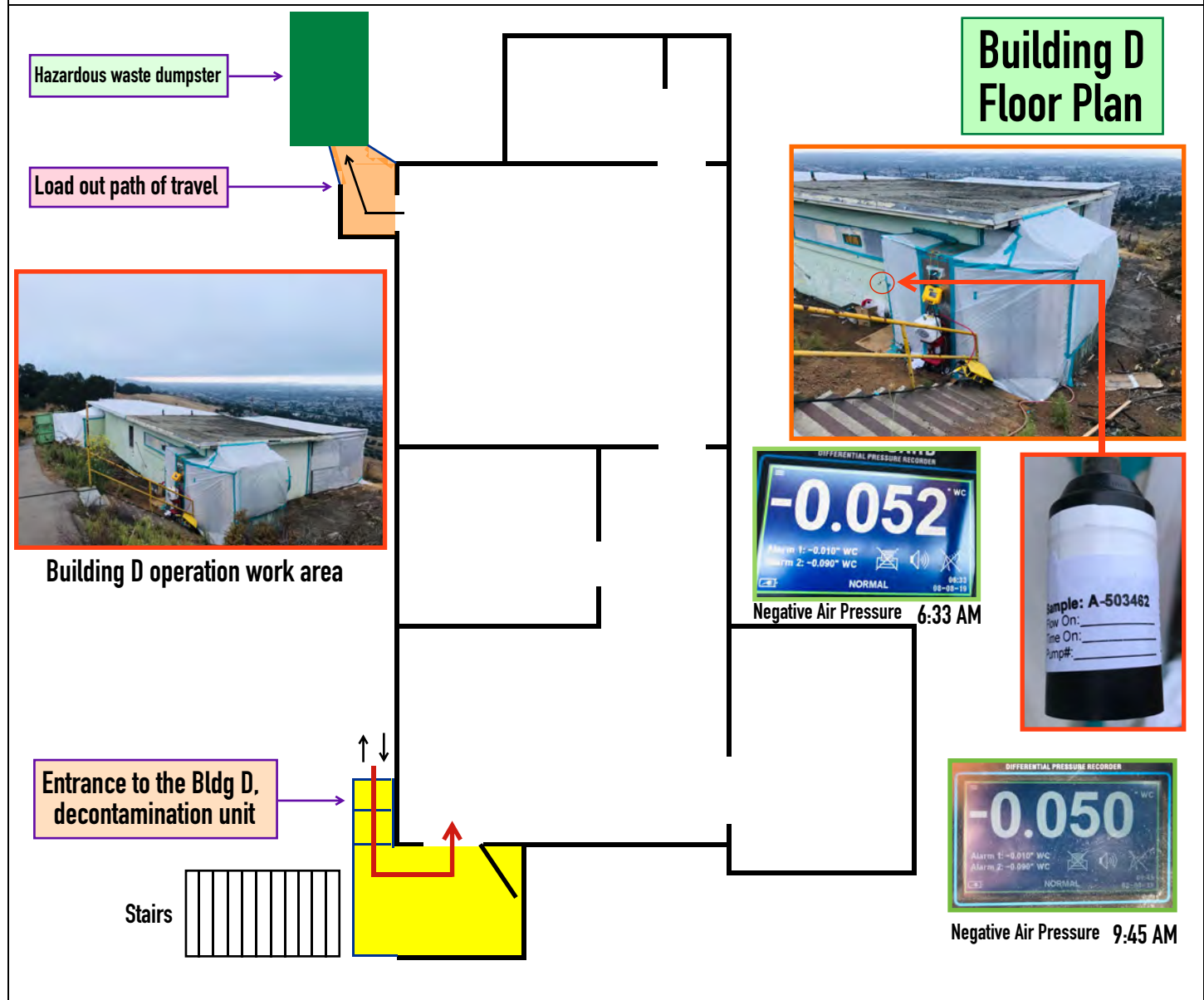
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Site Photos and Diagrams

Project Information		Date:	08/08/2019 Thursday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shack structure by the gate.				
Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		

Site Photos and Diagrams



M. Massoud Navvab

ACC Staff Signature:

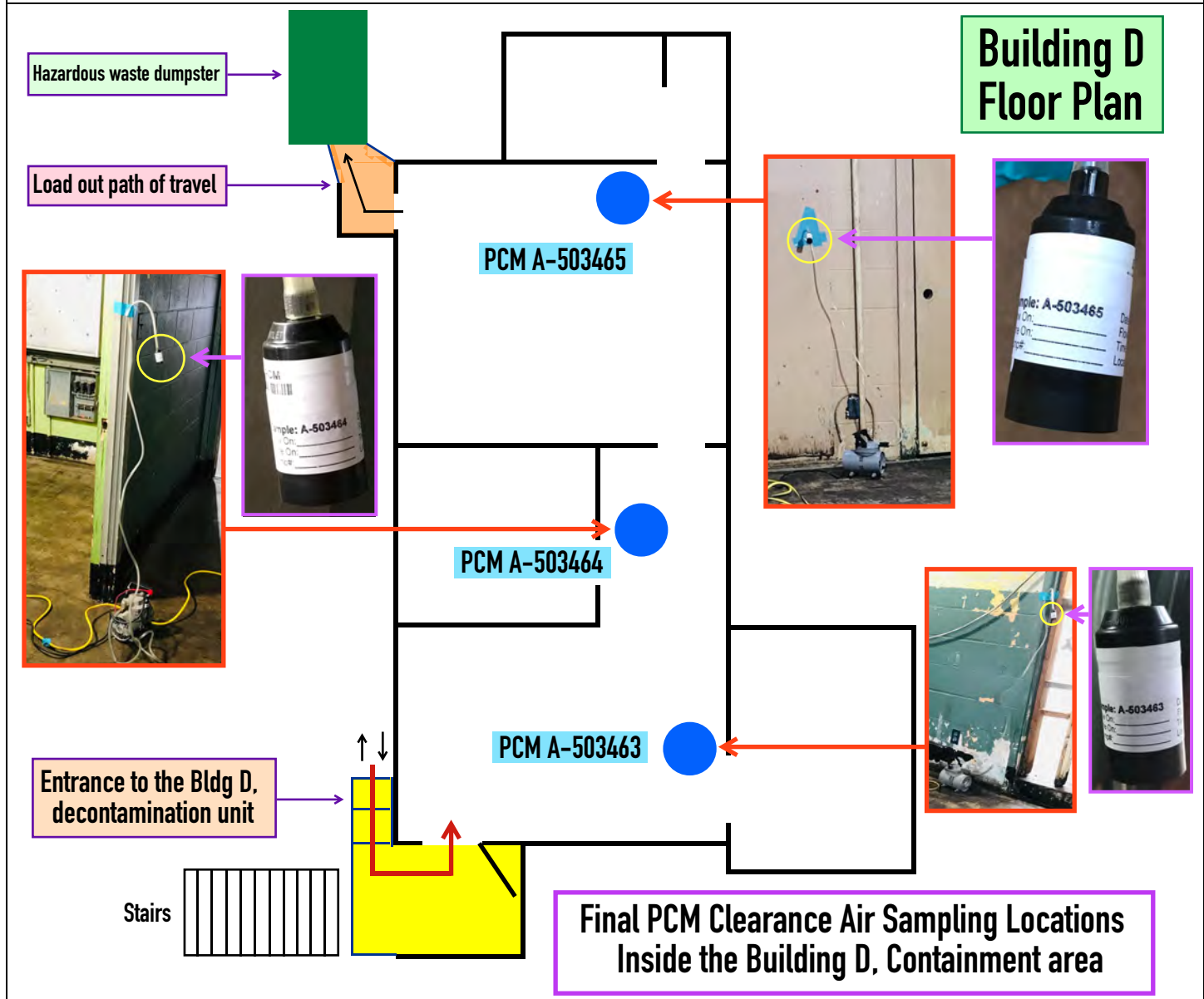
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Site Photos and Diagrams



M. Massoud Navvab

ACC Staff Signature:

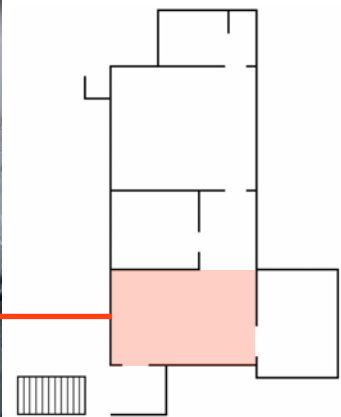
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Site Photos and Diagrams



Building D, Interiors after final detail clean up & final Encapsulation

M. Massoud Navvab

ACC Staff Signature:

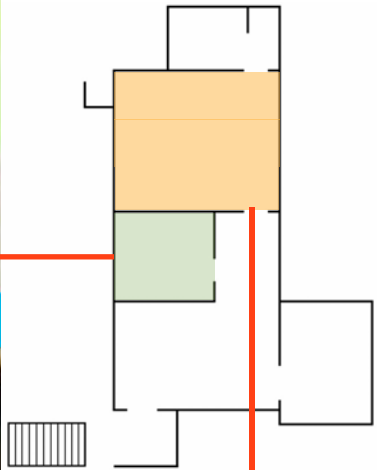
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Site Photos and Diagrams



Building D, Interiors after final detail clean up & final Encapsulation

M. Massoud Navvab

ACC Staff Signature:

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Site Photos and Diagrams

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Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		

Guard Shack interior & Exterior existing condition

Site Photos and Diagrams

Before



M. Massoud Navvab

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Site Photos and Diagrams

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Guard Shack interior & Exterior current condition

Site Photos and Diagrams

After



M. Massoud Navvab

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DAILY PROJECT REPORT

Project Information				Date:	08/09/2019 Friday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.						
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shack structure by the gate.						
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)			Project Manager:	Stephen Jackson (OAK)		

Shift Activities

Containment Setup	Containment Inspection	Bulk Material Removal	Perimeter Air Sampling	Final Detail Cleaning	Waste Load-Out	Final Visual Inspection	Final Air Clearance	Containment Tear-Down	Equipment De-Mobilize	
✓	✓	✓		✓	✓	✓		✓	✓	
Work Area Location			General Debris Removed			Materials Removed (Asbestos & Lead)			Quantity	SF/LF
Building D, Interior.			NA			ACM Roof Patching Compound			100	SF
						ACM Exterior Transit Panels			200	SF
						Exterior Loose & Peeling Lead Based Paint.			600	SF
Total Number of Work Areas:		1	Total Number of Containments:			1	See Notes for Additional Work Areas/ Materials Not Listed Above			
Asbestos Work Class:		Class I		✓ Class II		Class III		Unclassified		

Materials Removed

✓ Asbestos Removal		✓ Lead Removal		Additional Hazardous Materials	
Contractor Assistance	✓ Roofing Materials	Lead-Based Coating/ Paint		Mercury Vapor Light Tubes	Water Damaged Materials
Spot Abatement	Miscellaneous Materials	Lead-Containing Coating/ Paint		PCB Ballasts	Mold-Impacted Materials
Ceiling Materials	Surfacing Materials	Lead Glazed Ceramic Tile		Mercury Thermostat Switches	Indoor Air Quality (IAQ)
Flooring Materials	TSI/Insulation Materials	✓ Loose & Peeling Lead Paint			
✓ Wall Materials (Transit)		Lead Sheeting			

Contractor Information

Contractor:	Conflo Services, Inc. Abatement/Demolition				Supervisor Name:	Mario Ortega	
Crew Size	4	Total No. of Personal Samples:	3	8-hour TWA:	2	Excursion:	1
Shift Start Time:	06:00 am	Lunch Time:	10:00 am	Shift Finish Time:	02:30 pm	Total Hours:	8.00

Personal Protective Equipment

✓ ½ Face Respirator	✓ HEPA/ P100 Cartridges	✓ Full Body Disposable Suit	✓ Hard Hat	✓ Gloves
Full Face Respirator	Organic Vapor Cartridges	Disposable Suit w/ Hood	✓ Safety Glasses	✓ Steel Toe/Shank Boots
PAPR	Acid Gas Cartridges	✓ Neon Vest	Hearing Protection	Fall Protection
Supplied Air Respirator	Piggy-back Cartridges	Other:		

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Air Monitoring Information

Air Sampling Performed by ACC During Shift?		Yes	<input checked="" type="checkbox"/> No	Total Number of Samples Collected:	0
# of Samples	Cassette Type	Sample Type	Sample Numbers		
Onsite PCM Analysis Performed?		Yes	No	Name of Analyst:	
Laboratory Name, City:					

Engineering Controls & Work Area Setup

Negative Pressure Enclosure	Splash Guards	Three-Stage w/Shower	Building Power	No Odor Mastic Remover
Mini Containment <input checked="" type="checkbox"/>	Drop Sheet	Two-Stage w/Hudson <input checked="" type="checkbox"/>	Temp Power Box <input checked="" type="checkbox"/>	Wet Removal Methods
Clean Cube	View Ports	One-Stage w/Hudson <input checked="" type="checkbox"/>	Contractor Supplied Power	NPU Charcoal Filters
Glove Bags <input checked="" type="checkbox"/>	English Warning Signs	"Z" Flap Air-Locks <input checked="" type="checkbox"/>	GFCI Protection <input checked="" type="checkbox"/>	Fire Extinguishers
Critical Barriers <input checked="" type="checkbox"/>	Spanish Warning Signs <input checked="" type="checkbox"/>	No Decon Required	Temporary Lighting	DOP Test Air Filtration Unit
Poly Walls (min 4-mil.) <input checked="" type="checkbox"/>	Hazard Barrier Tape	Remote Shower <input checked="" type="checkbox"/>	Contractor Supplied Water <input checked="" type="checkbox"/>	DOP Test HEPA Vacuum
Poly Floors (min. 6-mil.)	-0.02" Negative Pressure	Separate Load-Out	NPU Exhaust Location: NA	
Poly Ceiling (min 4-mil.)	-0.04" Negative Pressure	Shut Down HVAC	Other: There is NO HVAC system in the Building.	

Contractor Work Practice Information

	Yes	No	NA
Have copies of worker documents been received from the contractor in compliance with the scope of work?	<input checked="" type="checkbox"/>		
Are 'OSHA' personal air monitoring sample results being posted daily?			<input checked="" type="checkbox"/>
Are workers going through the proper decontamination sequence upon leaving the work areas?	<input checked="" type="checkbox"/>		
Are good safety practices being followed at the job site?	<input checked="" type="checkbox"/>		
Are workers demonstrating good "housekeeping" techniques?	<input checked="" type="checkbox"/>		
Is ACM (greater than >1%) being bagged and labeled as asbestos waste?			<input checked="" type="checkbox"/>
Is water being used continuously to mist air, wet materials during removal and keep waste bags/ materials saturated?	<input checked="" type="checkbox"/>		
Are waste containers properly lined with poly, labeled, sealed, secured/ locked to prevent public access?	<input checked="" type="checkbox"/>		

Waste Information

Waste Type	Manifest Type	Manifest Number	Date	ID Number:
1.				
2.				
3.				
Transporter 1:				
Transporter 2:				
Designated Facility Name:				

ACTIVITIES LOG

Project Information		Date:	08/09/2019 Friday	Project Number:	2062-163.00
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Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Time: Contractor Activity / Notable Occurrence

What Materials Are Removed - From Where - How Many Workers - Performing What Tasks - Using What Methods?
Any Problems, Visitors, Complaints?

6:00 AM : Conflo Services, Inc. Abatement/Demolition crew (4 men) are onsite.

6:10 AM : Conflo Services, Inc. Abatement/Demolition crew with PPE (Suit, 1/2 face respirators, Etc.) have covered inside the new empty green box dumpster next to the building C with plastic & duct tape.

6:15 AM : Conflo Services, Inc. Project supervisor & three crew members with PPE (Suit, 1/2 Face respirators, Etc) are planning to start & complete the ACM Roof Patching Compound removal & the detail clean up on the roof of the building D. Crew also are going to remove the exterior wall transit panels in the building D exterior walls designated locations. Conflo Services, Inc. crew also are going to do the plastic set up around building D perimeter walls prior to the Loose & Peeling Lead Based Paint removal & stabilization of all exterior walls & roof Eves surfaces prior to the primer painting all exterior surfaces. Conflo Services, Inc. crew also will use the primer paint to seal all interior vertical surfaces throughout interior CMU & cementitious walls where the Loose & Peeling Lead Based Paint has been removed & vertical surfaces wooden door casing & wooden window frames are stabilized.

6:30 AM : Conflo Services, Inc. Abatement/Demolition crew with PPE (Suit, 1/2 face respirators, Etc.), (2 worker) are continuing ACM Roof Patching compound removal & the detail clean up & bagging removed materials on the roof area. Also crew on the ground are continuing with ACM Transit panels removal & Loose & Peeling Lead Based Paint removal & stabilization on exterior CMU walls.

7:30 AM : Exterior ACM Roof Patching Compound & Exterior ACM Transit Panels removal/detail clean up & bagging removed materials is completed.

7:40 AM : Conflo Services, Inc. crew are removing bags from the Bldg D, restrooms temporary ACM Bags storage area as well as all bags for ACM Roof Patching materials & ACM Transit Panels materials & they are loading bags inside the dumpster next to the building C open area.

8:00 AM : Conflo Services, Inc. Abatement/Demolition crew with PPE (Suit, 1/2 face respirators, Etc.), have completed the load out waste clear plastic bags from Building D, in to the dumpster.

8:15 AM : Conflo Services, Inc. Abatement/Demolition crew with PPE (Suit, 1/2 face respirators, Etc.), are continuing with the perimeter plastic set up & removal & stabilization of the Loose & Peeling Lead Based Paint on Exterior CMU & wooden walls & exterior roof Eves of the Building D.

9:00 AM : Conflo Services, Inc. Abatement/Demolition crew with PPE (Suit, 1/2 face respirators, Etc.), are continuing with Loose & Peeling Lead Based Paint on Exterior CMU & wooden walls & exterior roof Eves of the Building D, removal & stabilization.

9:15 AM : Conflo Services, Inc. Abatement/Demolition crew with PPE (Suit, 1/2 face respirators, Etc.), have completed the Loose & Peeling Lead Based Paint on Exterior CMU & wooden walls, wooden door frames, Etc & exterior roof Eves of the Building D, removal & stabilization. ACC Onsite technician visually inspected CMU & wooden walls surfaces including roof Eves & find to be all in an acceptable condition. ACC Onsite technician gave OK to Conflo Services, Inc. Abatement/Demolition onsite project supervisor to go ahead & to use the primer paint & seal all exterior CMU & wooden walls surfaces including roof Eves. Conflo Services, Inc. Abatement/Demolition crew also are going to use primer paint for Building D, Interior to seal vertical CMU wall surfaces as well.

10:30 AM : Conflo Services, Inc. Abatement/Demolition crew are leaving Building D, Operation work area & they are going for a lunch break.

11:30 AM : Conflo Services, Inc. Abatement/Demolition crew are back from the lunch break. Crew are going with PPE (Suit, 1/2 face respirators, Etc.), to continue with primer painting where the Loose & Peeling Lead Based Paint on Exterior CMU & wooden walls remaining & the interior CMU walls was taken place. Also Conflo Services, Inc. Abatement/Demolition crew are demobilizing their remaining equipments from building D, in to their storage area.

1:30 PM : Conflo Services, Inc. Abatement/Demolition crew with PPE (Suit, 1/2 face respirators, Etc.), have completed the remaining of primer paintings in various locations throughout the exterior & the interior of the building D. All remaining Loose & Peeling Lead Based Paint dust & residual debris are removed around perimeter wall except where there is ACM Pipe Insulation dust & residual debris are scattered throughout the dirt on the ground & next to the perimeter wall (South section). Conflo Services, Inc. Abatement/Demolition crew are going to load stored waste clear plastic bags from the Bldg C temporary storage area in to the dumpster with rolling carts next to the Bldg C.

2:00 PM : Conflo Services, Inc. Abatement/Demolition crew have completed the load out activities & they are putting removed plywood back in place with screws. Crew are continuing moving their equipments in to the portable metal storage area as well as repairing falling plastic on the roof of building C where Transit panels were removed.

2:30 PM : Conflo Services crew are leaving the job site.



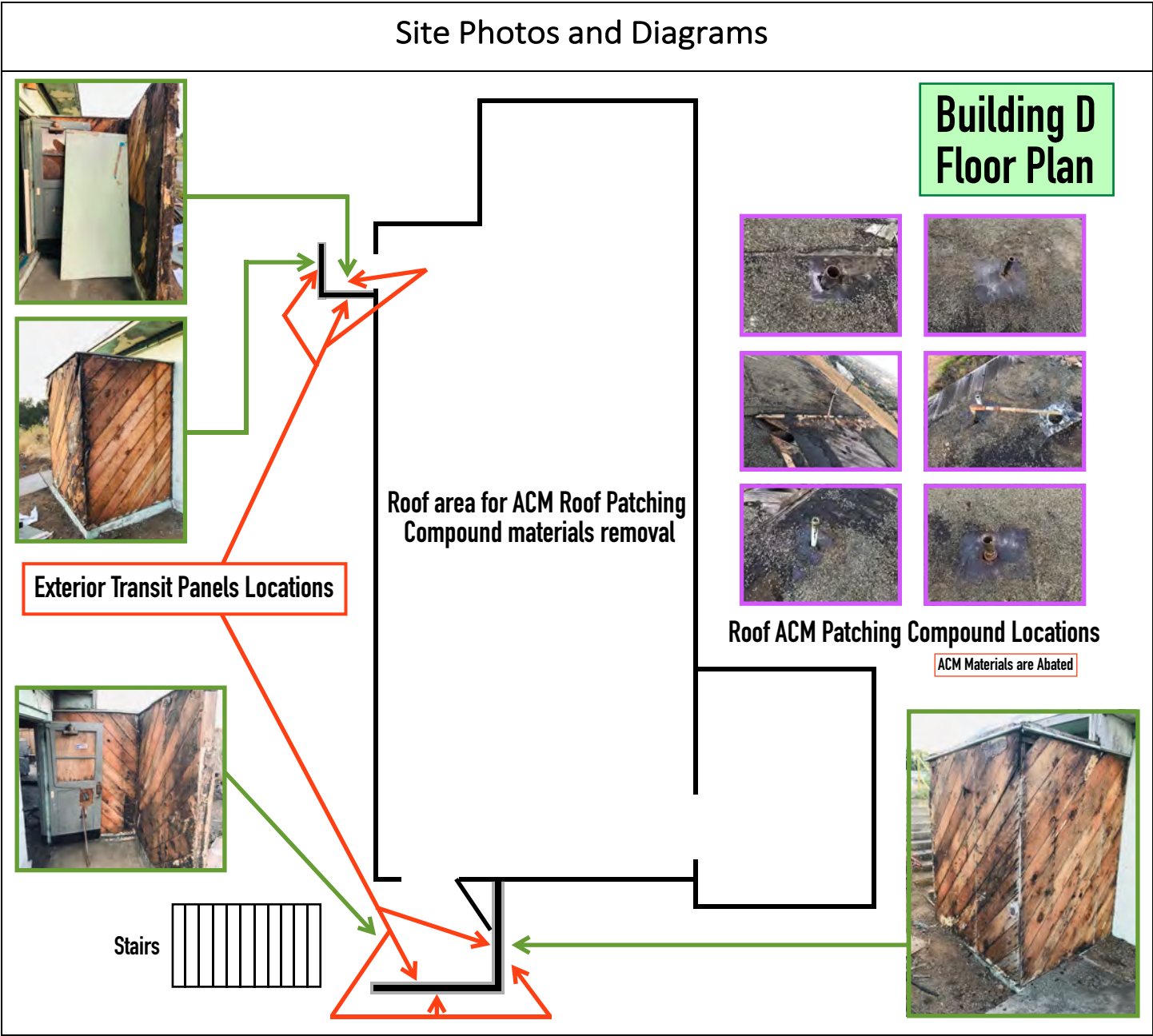
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Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)			



M. Massoud Navvab

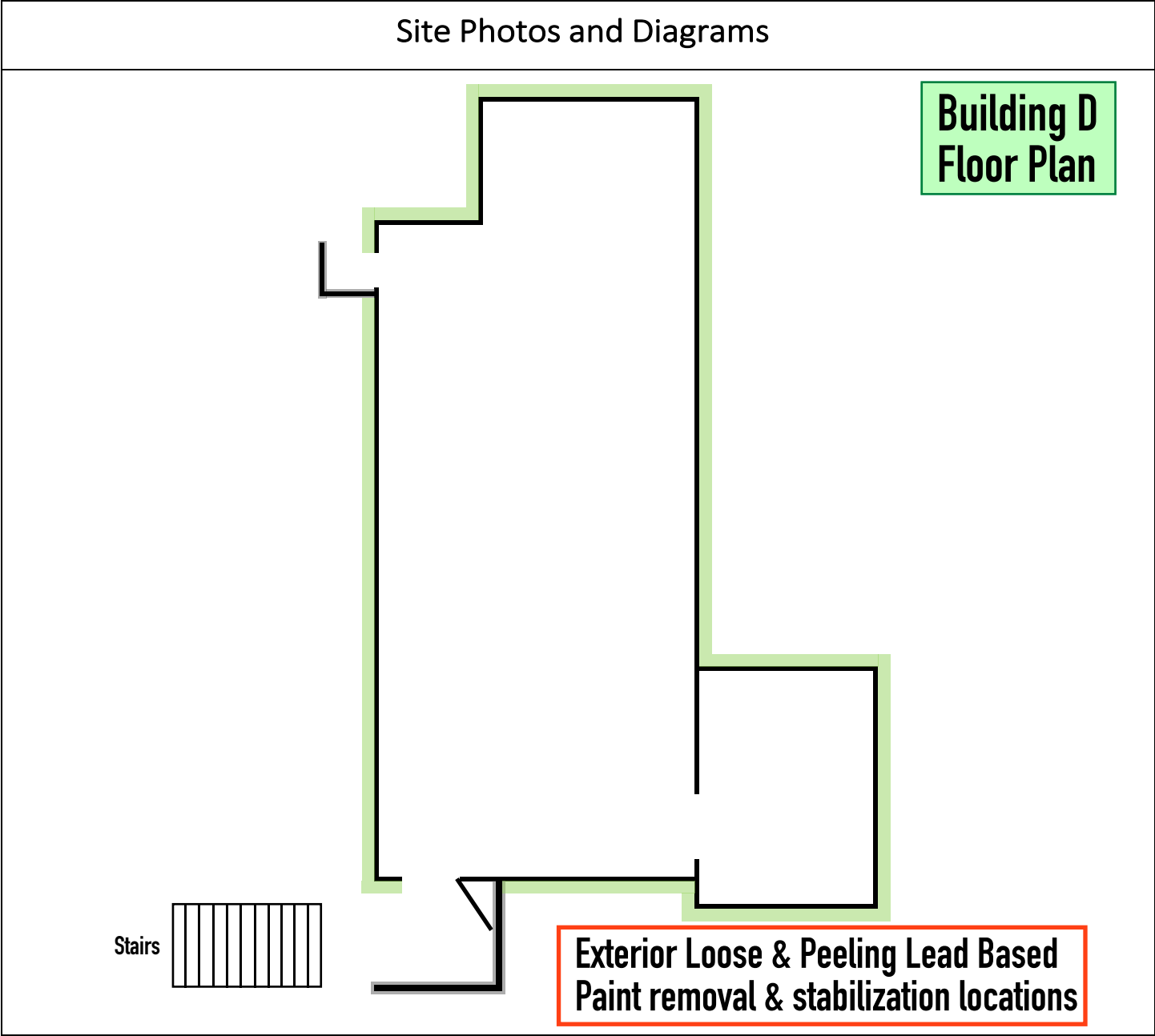
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Exterior CMU Walls after primer painting

M. Massoud Navvab

ACC Staff Signature:

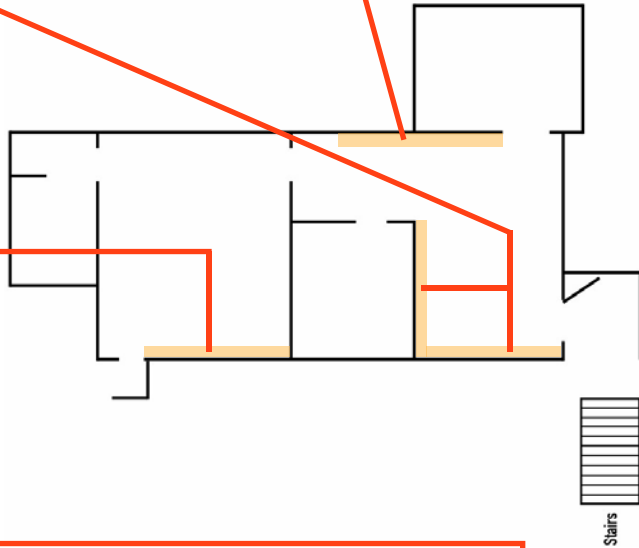
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Site Photos and Diagrams



Interior CMU Walls after primer painting

M. Massoud Navvab

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Site Photos and Diagrams



Repaired plastic on the wall open penetrations on the lower roof of the Building C

M. Massoud Navvab

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FINAL VISUAL INSPECTION

Project Information				Date:	08/09/2019	Friday	Project Number:	2062-163.00
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Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)			Project Manager:	Stephen Jackson (OAK)			
Contractor:	Conflo Services, Inc. Abatement/Demolition			Supervisor Name:	Mario Ortega			
Type of Work:	<input checked="" type="checkbox"/> Asbestos	<input checked="" type="checkbox"/> Lead	<input type="checkbox"/> Mold	Time of Inspection:	09:15 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM			
Materials Removed:	Loose & Peeling Lead Based Paint & ACM Roof Patching Compound, ACM Exterior Transit Panels.							
Containment Location:	Building D, Exterior structure including the roof structure.							
Visual Inspection:	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail	Was the Contractor's Supervisor present during the inspection?			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	

If Failed, please give a short explanation as to why:			
Please check off any possible contributing factors:		Debris Remaining	Bulk Material Remaining
Photos of deficiencies collected?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Inadequate Lighting	Inadequate Equipment

Contractor's Certification		Owners Representative Certification	
In accordance with Project Decontamination requirements for project, the abatement contractor hereby certifies they have visually inspected ALL work area surfaces and have found no visible dust, debris or residue.		ACC Environmental Consultants, Inc., hereby certifies that we have accompanied the Contractor on the final visual inspection and verified the inspection to be thorough, and to the best of our knowledge, the Contractor's adjacent statement is a true and honest one.	
Signature:		Signature:	
Print Name:	Mario Ortega	Print Name:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)
Print Title:	Project Supervisor	Print Title:	Project Technician
Company:	Conflo Services, Inc. Abatement/Demolition	Company:	ACC Environmental Consultants, Inc.

Clearance Sampling Summary

Sample Date	Sample Number	Sample Location	Total Volume in Liters (L)	Result	Pass/Fail
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				

Air Sampling Passed?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Visual Inspection Only		
Clearance Criteria:	PCM (<0.01 f/cc)	TEM AHERA (<70s/mm ²)	Mold	Other:
Comments:				

PRE-ABATEMENT CONTAINMENT INSPECTION

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Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)			
Contractor:	Conflo Services, Inc. Abatement/Demolition	Supervisor Name:	Mario Ortega			
Type of Work:	<input checked="" type="checkbox"/> Asbestos	<input checked="" type="checkbox"/> Lead	<input type="checkbox"/> Mold	Asbestos Work Class:	<input type="checkbox"/> Class I	<input checked="" type="checkbox"/> Class II
Containment Location:	Building D, Exterior walls & the Roof area					

Site Observations	Yes	No	NA	Comments
Is the work area isolated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is access to work area adequately restricted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there a designated area for resting & eating with drinking water available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are OSHA notifications posted outside the work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are EPA/NESHAP notifications posted outside the work area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are site conditions or pre-existing damage noted and photographed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are EPA, UN and OSHA waste labels on-site & ready for waste containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are waste dumpsters lined with poly and labeled with OSHA warning signs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Containment Setup	Yes	No	NA	Comments
Are OSHA warning signs (English & Spanish) posted at all entrances to work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is poly sheeting flame retardant?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are 2 layers of poly (6 mil.) on the floor and 2 layers (4 mil.) on the walls?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	One layer, Exterior work activities.
Is poly sheeting adequately secured to walls and floors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are critical barriers installed over HVAC vents, doors, windows and other openings?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Has the HVAC system been shut down, locked out?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NO HVAC System.
Are drop cloths in place?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are emergency exits identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there adequate lighting (200 watts/1000 square feet)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Day light.
Have temporary power systems equipped with GFCI been installed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Waste load-out path-of-travel protected?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is local ventilation in-place for the work activities?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are extension cords safely suspended off the ground?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Negative Pressure	Yes	No	NA	Comments
Has containment passed smoke test & with no stagnant air present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If required, is a manometer installed and functioning properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Has the manometer been calibrated to zero?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is negative pressure measuring to project requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Has DOP testing of HEPA equipment been performed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Have failed DOP tested equipment been removed or marked to prevent use?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

PRE-ABATEMENT CONTAINMENT INSPECTION

Project Information		Date:	08/09/2019	Friday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.					
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.					
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)			

Emergency and Safety Equipment	Yes	No	NA	Comments
Are SDS sheets on site and accessible?	✓			
Is there and adequate first-aid kit on site?	✓			
Are all fire extinguishers inspected (yearly and monthly) and up-to date?	✓			
Are emergency numbers posted onsite, with routes to the hospital?	✓			
Is a floor plan indicating all exits and major equipment posted?	✓			
Is the main power in the work area shutdown and locked out?	✓			
Are all electrically powered tools and equipment equipped with a waterproof GFCI?			✓	
Does all scaffolding have safety rails, toe-kicks & fall protection if necessary?			✓	

Decontamination Unit	Yes	No	NA	Comments
Chamber 1: Clean Room	Are entrance doors properly constructed?		✓	
	Are ceilings and walls covered with poly?		✓	
	Is the chamber floor free of obstructions and clutter?		✓	
	Are linens and/or towels available?		✓	
	Are the entrance flaps properly constructed?		✓	
Chamber 2: Shower	Is HOT water available?		✓	
	Are soap, shampoo, linens and/or towels available?		✓	
	Is the floor beneath the shower pan properly protected?		✓	
	Does the shower provide a good spray?		✓	
	Is water being filtered through a 3-stage to 1-micrometer filter?		✓	
Chamber 3: Dirty Room	Is there a disposal bag for protective clothing?	✓		
	Is there a drop cloth on the floor?	✓		
	Is there a positive pressure airlock attached from the work area?		✓	
Chamber 4: Equipment Decon	Is there a separate equipment decontamination chamber?		✓	
	Is there a positive pressure airlock attached from the work area?		✓	

Additional Notes and Observations



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DAILY PROJECT REPORT

Project Information		Date:	08/19/2019 Monday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca. Building D, Ext-Contaminated Soil with ACM TSI Pipe Insulation Debris Abatement.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Shift Activities

Containment Setup	Containment Inspection	Bulk Material Removal	Perimeter Air Sampling	Final Detail Cleaning	Waste Load-Out	Final Visual Inspection	Final Air Clearance	Containment Tear-Down	Equipment De-Mobilize
✓	✓								
Work Area Location		General Debris Removed		Materials Removed (Asbestos & Lead)		Quantity	SF/LF		
Building D, South exterior ground, (Contaminated Soil with ACM TSI Pipe Insulation Debris).		NA		NA					
Total Number of Work Areas:	1	Total Number of Containments:	1	See Notes for Additional Work Areas/ Materials Not Listed Above					
Asbestos Work Class:	✓ Class I		Class II		Class III		Unclassified		

Materials Removed

Asbestos Removal		Lead Removal		Additional Hazardous Materials	
Contractor Assistance	Roofing Materials	Lead-Based Coating/ Paint		Mercury Vapor Light Tubes	Water Damaged Materials
Spot Abatement	Miscellaneous Materials	Lead-Containing Coating/ Paint		PCB Ballasts	Mold-Impacted Materials
Ceiling Materials	Surfacing Materials	Lead Glazed Ceramic Tile		Mercury Thermostat Switches	Indoor Air Quality (IAQ)
Flooring Materials	TSI/Insulation Materials	Loose & Peeling Lead Paint			
Wall Materials		Lead Sheeting			

Contractor Information

Contractor:	Conflo Services, Inc. Abatement/Demolition		Supervisor Name:	Mario Ortega	
Crew Size	3	Total No. of Personal Samples:	3	8-hour TWA:	2
Excursion:	1	Shift Start Time:	07:00 am	Lunch Time:	11:00 am
Shift Finish Time:	03:30 pm	Total Hours:	8.00		

Personal Protective Equipment

✓ ½ Face Respirator	✓ HEPA/ P100 Cartridges	✓ Full Body Disposable Suit	✓ Hard Hat	✓ Gloves
Full Face Respirator	Organic Vapor Cartridges	Disposable Suit w/ Hood	✓ Safety Glasses	✓ Steel Toe/Shank Boots
PAPR	Acid Gas Cartridges	✓ Neon Vest	Hearing Protection	Fall Protection
Supplied Air Respirator	Piggy-back Cartridges	Other:		

DAILY PROJECT REPORT

Project Information		Date:	08/19/2019 Monday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca. Building D, Ext-Contaminated Soil with ACM TSI Pipe Insulation Debris Abatement.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Air Monitoring Information

Air Sampling Performed by ACC During Shift?		Yes	<input checked="" type="checkbox"/> No	Total Number of Samples Collected:		0
# of Samples	Cassette Type	Sample Type	Sample Numbers			
Onsite PCM Analysis Performed?		Yes	No	Name of Analyst:		
Laboratory Name, City:						

Engineering Controls & Work Area Setup

<input checked="" type="checkbox"/> Negative Pressure Enclosure	Splash Guards	<input checked="" type="checkbox"/> Three-Stage w/Shower	Building Power	No Odor Mastic Remover
Mini Containment	<input checked="" type="checkbox"/> Drop Sheet	Two-Stage w/Hudson	Temp Power Box	Wet Removal Methods
Clean Cube	<input checked="" type="checkbox"/> View Ports	One-Stage w/Hudson	<input checked="" type="checkbox"/> Contractor Supplied Power	NPU Charcoal Filters
Glove Bags	<input checked="" type="checkbox"/> English Warning Signs	"Z" Flap Air-Locks	<input checked="" type="checkbox"/> GFCI Protection	<input checked="" type="checkbox"/> Fire Extinguishers
<input checked="" type="checkbox"/> Critical Barriers	<input checked="" type="checkbox"/> Spanish Warning Signs	No Decon Required	<input checked="" type="checkbox"/> Temporary Lighting	DOP Test Air Filtration Unit
<input checked="" type="checkbox"/> Poly Walls (min 4-mil.)	Hazard Barrier Tape	Remote Shower	<input checked="" type="checkbox"/> Contractor Supplied Water	<input checked="" type="checkbox"/> DOP Test HEPA Vacuum
Poly Floors (min. 6-mil.)	<input checked="" type="checkbox"/> -0.02" Negative Pressure	Separate Load-Out	NPU Exhaust Location: Outside the building.	
<input checked="" type="checkbox"/> Poly Ceiling (min 4-mil.)	-0.04" Negative Pressure	Shut Down HVAC	Other: There is NO HVAC system in the Building.	

Contractor Work Practice Information

	Yes	No	NA
Have copies of worker documents been received from the contractor in compliance with the scope of work?	<input checked="" type="checkbox"/>		
Are 'OSHA' personal air monitoring sample results being posted daily?			<input checked="" type="checkbox"/>
Are workers going through the proper decontamination sequence upon leaving the work areas?	<input checked="" type="checkbox"/>		
Are good safety practices being followed at the job site?	<input checked="" type="checkbox"/>		
Are workers demonstrating good "housekeeping" techniques?	<input checked="" type="checkbox"/>		
Is ACM (greater than >1%) being bagged and labeled as asbestos waste?			<input checked="" type="checkbox"/>
Is water being used continuously to mist air, wet materials during removal and keep waste bags/ materials saturated?	<input checked="" type="checkbox"/>		
Are waste containers properly lined with poly, labeled, sealed, secured/ locked to prevent public access?	<input checked="" type="checkbox"/>		

Waste Information

Waste Type	Manifest Type	Manifest Number	Date	ID Number:
1.				
2.				
3.				
Transporter 1:				
Transporter 2:				
Designated Facility Name:				



ACTIVITIES LOG

Project Information		Date:	08/19/2019 Monday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca. Building D, Ext-Contaminated Soil with ACM TSI Pipe Insulation Debris Abatement.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Time: Contractor Activity / Notable Occurrence

What Materials Are Removed - From Where - How Many Workers - Performing What Tasks - Using What Methods?
Any Problems, Visitors, Complaints?

7:00 AM : Conflo Services, Inc. Abatement/Demolition crew (3 men) are onsite.
7:10 AM : Conflo Services, Inc. Abatement/Demolition crew with PPE (Suit, 1/2 face respirators, Etc.) started mobilization of their equipments to the Building D, South exterior ground level that has contaminated soil. The soil has been mixed with ACM TSI Pipe Insulation Debris. Crew following the mobilization are planing to cut out plants in down hill side, next to the operation work area & to do the set up of metal framing in the designated location prior to the regulated area plastic set up. ACC Project technician walked through the area with Conflo onsite project supervisor to verify the location of the contaminated soil area. There are debris between plants down the hill next to the designated location with contaminated soil that is going to be part of the containment area for Contaminated soil clean up.
7:30 AM : Conflo Services, Inc. Project supervisor & two crew members with PPE (Suit, 1/2 Face respirators, Etc) have started to cut down grown plants along the hill side to extend the containment area to be able to removed remaining ACM TSI Pipe Insulation Debris that were staggered on the ground prior to the Regulated area metal framing & the plastic set up.
8:30 AM : Conflo Services, Inc. Abatement/Demolition crew with PPE (Suit, 1/2 face respirators, Etc.), (2 worker) are continuing to cut down grown plants along the hill side to extend the containment area to be able to removed remaining ACM TSI Pipe Insulation Debris that were staggered on the ground prior to the Regulated area set up.
9:00 AM : Conflo Services, Inc. Abatement/Demolition crew with PPE (Suit, 1/2 face respirators, Etc.), have completed the cutting down grown plants in the down hill side & they are starting to set up the containment metal framing set up with galvanized pipes prior to the regulated area plastic set up.
10:00 AM : Conflo Services, Inc. Abatement/Demolition crew with PPE (Suit, 1/2 face respirators, Etc.), have started the Regulated area plastic set up where the metal framing set up has been completed.
11:00 AM : Conflo Services, Inc. Abatement/Demolition crew are leaving Building D, Exterior Operation work area & they are going for a lunch break.
12:00 PM : Conflo Services, Inc. Abatement/Demolition crew are back from the lunch break. Crew are going with PPE (Suit, 1/2 face respirators, Etc.), to continue the containment set up & the decontamination unit & negative air machine set up.
2:00 PM : Conflo Services, Inc. Abatement/Demolition crew have completed the containment, the decontamination unit & the negative air machine set up. The negative air pressure is -0.031" H2O. ACC Onsite project technician visually inspected the containment & all aspect of the containment including the critical barriers, negative air machine & the negative air pressure & the decontamination unit & the wet method which is a garden hose from the water container to the building D. Crew will be using the Airless water sprayer as the wet method to control the dust inside the containment area. There won't be any contaminated soil removal activities for today's work shift due to the notification date which is set for tomorrow shift Tuesday 08-20-19.
2:30 PM : Conflo Services, Inc. crew have completed the gas power generator set up inside the Building D.
3:00 PM : Conflo Services, Inc. crew are continuing moving their equipments in to their storage area.
3:30 PM : Conflo Services crew are leaving the job site.

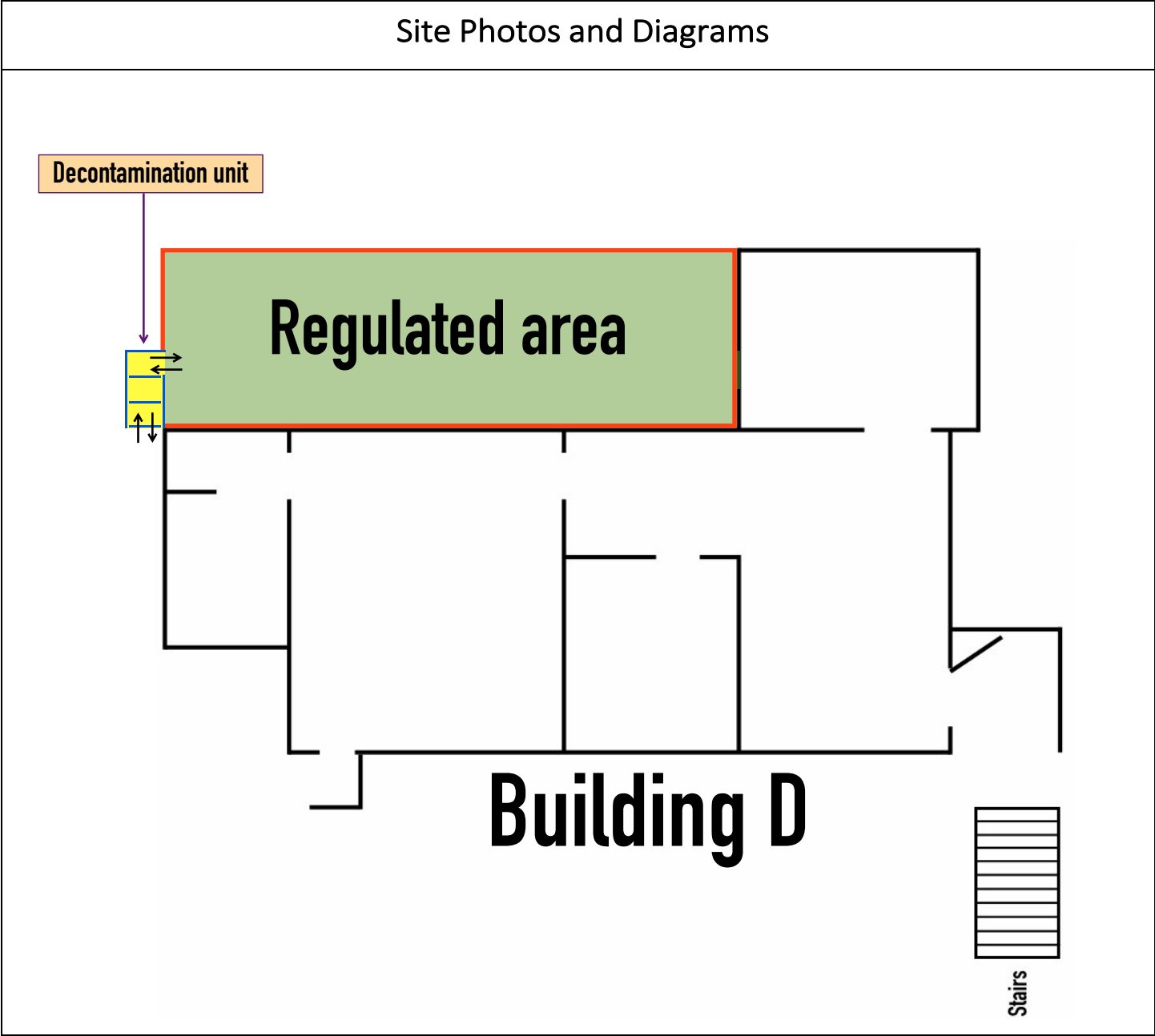
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Site Photos and Diagrams

Project Information		Date:	08/19/2019 Monday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca. Building D, Ext-Contaminated Soil with ACM TSI Pipe Insulation Debris Abatement.				
Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		



M. Massoud Navvab

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Site Photos and Diagrams

Project Information		Date:	08/19/2019 Monday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca. Building D, Ext-Contaminated Soil with ACM TSI Pipe Insulation Debris Abatement.				
Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		

Site Photos and Diagrams











Inside the containment area

Building D, South Exterior Ground Containment area

M. Massoud Navvab

ACC Staff Signature:

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PRE-ABATEMENT CONTAINMENT INSPECTION

Project Information		Date:	08/19/2019 Monday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca. Building D, Ext-Contaminated Soil with ACM TSI Pipe Insulation Debris Abatement.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		
Contractor:	Conflo Services, Inc. Abatement/Demolition	Supervisor Name:	Mario Ortega		
Type of Work:	<input checked="" type="checkbox"/> Asbestos	<input type="checkbox"/> Lead	<input type="checkbox"/> Mold	Asbestos Work Class:	<input checked="" type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III
Containment Location:	Building D, South Exterior contaminated ground area.				

Site Observations	Yes	No	NA	Comments
Is the work area isolated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is access to work area adequately restricted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there a designated area for resting & eating with drinking water available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are OSHA notifications posted outside the work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are EPA/NESHAP notifications posted outside the work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are site conditions or pre-existing damage noted and photographed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are EPA, UN and OSHA waste labels on-site & ready for waste containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are waste dumpsters lined with poly and labeled with OSHA warning signs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Containment Setup	Yes	No	NA	Comments
Are OSHA warning signs (English & Spanish) posted at all entrances to work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is poly sheeting flame retardant?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are 2 layers of poly (6 mil.) on the floor and 2 layers (4 mil.) on the walls?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	One layer, Exterior work activities.
Is poly sheeting adequately secured to walls and floors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are critical barriers installed over HVAC vents, doors, windows and other openings?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has the HVAC system been shut down, locked out?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NO HVAC System.
Are drop cloths in place?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are emergency exits identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there adequate lighting (200 watts/1000 square feet)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Also Day light.
Have temporary power systems equipped with GFCI been installed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Waste load-out path-of-travel protected?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is local ventilation in-place for the work activities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are extension cords safely suspended off the ground?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	In progress

Negative Pressure	Yes	No	NA	Comments
Has containment passed smoke test & with no stagnant air present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If required, is a manometer installed and functioning properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has the manometer been calibrated to zero?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is negative pressure measuring to project requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has DOP testing of HEPA equipment been performed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Have failed DOP tested equipment been removed or marked to prevent use?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

PRE-ABATEMENT CONTAINMENT INSPECTION

Project Information		Date:	08/19/2019 Monday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca. Building D, Ext-Contaminated Soil with ACM TSI Pipe Insulation Debris Abatement.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Emergency and Safety Equipment	Yes	No	NA	Comments
Are SDS sheets on site and accessible?	✓			
Is there and adequate first-aid kit on site?	✓			
Are all fire extinguishers inspected (yearly and monthly) and up-to date?	✓			
Are emergency numbers posted onsite, with routes to the hospital?	✓			
Is a floor plan indicating all exits and major equipment posted?	✓			
Is the main power in the work area shutdown and locked out?	✓			
Are all electrically powered tools and equipment equipped with a waterproof GFCI?	✓			
Does all scaffolding have safety rails, toe-kicks & fall protection if necessary?			✓	

Decontamination Unit	Yes	No	NA	Comments
Chamber 1: Clean Room	Are entrance doors properly constructed?	✓		
	Are ceilings and walls covered with poly?	✓		
	Is the chamber floor free of obstructions and clutter?	✓		
	Are linens and/or towels available?	✓		
	Are the entrance flaps properly constructed?	✓		
Chamber 2: Shower	Is HOT water available?		✓	
	Are soap, shampoo, linens and/or towels available?		✓	
	Is the floor beneath the shower pan properly protected?		✓	
	Does the shower provide a good spray?		✓	
	Is water being filtered through a 3-stage to 1-micrometer filter?		✓	
Chamber 3: Dirty Room	Is there a disposal bag for protective clothing?	✓		
	Is there a drop cloth on the floor?	✓		
	Is there a positive pressure airlock attached from the work area?		✓	
Chamber 4: Equipment Decon	Is there a separate equipment decontamination chamber?		✓	
	Is there a positive pressure airlock attached from the work area?		✓	

Additional Notes and Observations



ACC Staff Signature:

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DAILY PROJECT REPORT

Project Information		Date:	08/20/2019 Tuesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca. Building D, Ext-Contaminated Soil with ACM TSI Pipe Insulation Debris Abatement.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Shift Activities

Containment Setup	Containment Inspection	Bulk Material Removal	Perimeter Air Sampling	Final Detail Cleaning	Waste Load-Out	Final Visual Inspection	Final Air Clearance	Containment Tear-Down	Equipment De-Mobilize
✓	✓	✓	✓	✓	✓	✓			
Work Area Location			General Debris Removed			Materials Removed (Asbestos & Lead)		Quantity	SF/LF
Building D, South exterior ground, (Contaminated Soil with ACM TSI Pipe Insulation Debris).			Regular soil & vegetation in designated locations.			ACM TSI Pipe Insulation Debris mixed with soil.		350	SF
Total Number of Work Areas:	1	Total Number of Containments:		1	See Notes for Additional Work Areas/ Materials Not Listed Above				
Asbestos Work Class:	✓ Class I		Class II		Class III		Unclassified		

Materials Removed

✓ Asbestos Removal		Lead Removal	Additional Hazardous Materials	
Contractor Assistance	Roofing Materials	Lead-Based Coating/ Paint	Mercury Vapor Light Tubes	Water Damaged Materials
Spot Abatement	Miscellaneous Materials	Lead-Containing Coating/ Paint	PCB Ballasts	Mold-Impacted Materials
Ceiling Materials	Surfacing Materials	Lead Glazed Ceramic Tile	Mercury Thermostat Switches	Indoor Air Quality (IAQ)
Flooring Materials	✓ TSI/Insulation Materials	Loose & Peeling Lead Paint		
Wall Materials	✓ Contaminated soil	Lead Sheeting		

Contractor Information

Contractor:	Conflo Services, Inc. Abatement/Demolition		Supervisor Name:	Mario Ortega	
Crew Size	3	Total No. of Personal Samples:	3	8-hour TWA:	2
Excursion:	1	Shift Start Time:	06:00 am	Lunch Time:	10:00 am
Shift Finish Time:	02:30 pm	Total Hours:	8.00		

Personal Protective Equipment

½ Face Respirator	✓ HEPA/ P100 Cartridges	Full Body Disposable Suit	✓ Hard Hat	✓ Gloves
Full Face Respirator	Organic Vapor Cartridges	✓ Disposable Suit w/ Hood	✓ Safety Glasses	✓ Steel Toe/Shank Boots
✓ PAPR	Acid Gas Cartridges	✓ Neon Vest	Hearing Protection	Fall Protection
Supplied Air Respirator	Piggy-back Cartridges	Other:		

DAILY PROJECT REPORT

Project Information		Date:	08/20/2019 Tuesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca. Building D, Ext-Contaminated Soil with ACM TSI Pipe Insulation Debris Abatement.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Air Monitoring Information

Air Sampling Performed by ACC During Shift?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Total Number of Samples Collected:		1	
# of Samples	Cassette Type	Sample Type	Sample Numbers				
1	PCM	Perimeter	A-503466				
Onsite PCM Analysis Performed?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Name of Analyst:			M.M.Navvab
Laboratory Name, City:							

Engineering Controls & Work Area Setup

<input checked="" type="checkbox"/> Negative Pressure Enclosure	Splash Guards	<input checked="" type="checkbox"/> Three-Stage w/Shower	Building Power	No Odor Mastic Remover
Mini Containment	<input checked="" type="checkbox"/> Drop Sheet	Two-Stage w/Hudson	Temp Power Box	<input checked="" type="checkbox"/> Wet Removal Methods
Clean Cube	<input checked="" type="checkbox"/> View Ports	One-Stage w/Hudson	<input checked="" type="checkbox"/> Contractor Supplied Power	NPU Charcoal Filters
Glove Bags	<input checked="" type="checkbox"/> English Warning Signs	"Z" Flap Air-Locks	<input checked="" type="checkbox"/> GFCI Protection	<input checked="" type="checkbox"/> Fire Extinguishers
<input checked="" type="checkbox"/> Critical Barriers	<input checked="" type="checkbox"/> Spanish Warning Signs	No Decon Required	<input checked="" type="checkbox"/> Temporary Lighting	<input checked="" type="checkbox"/> DOP Test Air Filtration Unit
<input checked="" type="checkbox"/> Poly Walls (min 4-mil.)	Hazard Barrier Tape	Remote Shower	<input checked="" type="checkbox"/> Contractor Supplied Water	<input checked="" type="checkbox"/> DOP Test HEPA Vacuum
Poly Floors (min. 6-mil.)	<input checked="" type="checkbox"/> -0.02" Negative Pressure	Separate Load-Out	NPU Exhaust Location: Outside the containment area.	
<input checked="" type="checkbox"/> Poly Ceiling (min 4-mil.)	-0.04" Negative Pressure	Shut Down HVAC	Other: There is NO HVAC system in the Building.	

Contractor Work Practice Information

	Yes	No	NA
Have copies of worker documents been received from the contractor in compliance with the scope of work?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are 'OSHA' personal air monitoring sample results being posted daily?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are workers going through the proper decontamination sequence upon leaving the work areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are good safety practices being followed at the job site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are workers demonstrating good "housekeeping" techniques?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is ACM (greater than >1%) being bagged and labeled as asbestos waste?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is water being used continuously to mist air, wet materials during removal and keep waste bags/ materials saturated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are waste containers properly lined with poly, labeled, sealed, secured/ locked to prevent public access?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Waste Information

Waste Type	Manifest Type	Manifest Number	Date	ID Number:
1.				
2.				
3.				
Transporter 1:				
Transporter 2:				
Designated Facility Name:				

ACTIVITIES LOG

Project Information		Date:	08/20/2019 Tuesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca. Building D, Ext-Contaminated Soil with ACM TSI Pipe Insulation Debris Abatement.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Time: Contractor Activity / Notable Occurrence

What Materials Are Removed - From Where - How Many Workers - Performing What Tasks - Using What Methods?
Any Problems, Visitors, Complaints?

6:00 AM : Conflo Services, Inc. Abatement/Demolition crew (3 men) are onsite.

6:15 AM : Conflo Conflo Services, Inc. Abatement/Demolition crew with PPE (Suit, PAPR respirators, Etc.) are going inside the regulated area which is located next to the Building D, South exterior wall ground level that has contaminated soil mixed with ACM TSI Pipe Insulation Debris, to start the Contaminated soil asbestos abatement. ACC Project technician inspected the containment area, the negative air pressure (-0.042 " H2O Hg) & the critical barriers, the decontamination unit & found all in an acceptable condition. The containment inspection is completed & is passed.

7:30 AM : Conflo Services, Inc. Project supervisor & two crew members with PPE (Suit, PAPR respirators, Etc) are Inside the containment area & they are continuing clean up the ACM TSI Pipe Insulation dust & debris mixed with the soil & bagging removed contaminated materials in Asbestos waste plastic bags.

8:30 AM : Conflo Services, Inc. Abatement/Demolition crew with PPE (Suit, PAPR respirators, Etc) are continuing removing the contaminated soil mixed with ACM TSI Pipe Insulation Debris & bagging removed materials in ACM waste clear plastic asbestos bags. All waste clear plastic asbestos bags are stored inside the containment close to the decontamination unit for now until the asbestos abatement is completed. Removed materials are wet in waste clear plastic asbestos bags. Conflo asbestos abatement crew are continuing using wet method by using the garden hose. The source of the water is Conflo water storage tank which is in the job site close to the building C. The negative air pressure is achieved-0.025" H2O Hg.

10:00 AM : Conflo Services, Inc. Abatement/Demolition crew are leaving Building D, Exterior containment work area through the decontamination unit & they are going for a lunch break.

11:00 AM : Conflo Services, Inc. Abatement/Demolition crew are back from the lunch break. Crew are going back inside the Building D, exterior containment area with PPE (Suit, PAPR respirators, Etc) to continue the minor contaminated soil mixed with ACM TSI Pipe Insulation Debris clean up remaining & bagging removed materials in ACM waste clear plastic asbestos bags. The negative air pressure is achieved.

12:00 PM : Conflo Services, Inc. Abatement/Demolition crew with PPE (Suit, PAPR respirators, Etc) are Inside the containment area & they are continuing double bagging all single waste clear plastic asbestos bags prior to the load out in to the dumpster next to the building C.

1:00 PM : Conflo Services, Inc. Abatement/Demolition crew have completed the load out all waste clear plastic asbestos double bags in to the dumpster next to the building C. ACC Onsite technician visually inspected inside the containment area & find the ground area clean & free of any residual ACM TSI Pipe Insulation dust & debris. The visual inspection is completed & is passed. Conflo Services, Inc. Abatement/Demolition crew are planing to encapsulate Inside the containment area tomorrow morning 08/21/19.

2:00 PM : Conflo Services, Inc. Abatement/Demolition crew moved their equipments & tools inside the storage area.

2:30 PM : Conflo Services crew are out of the job site.



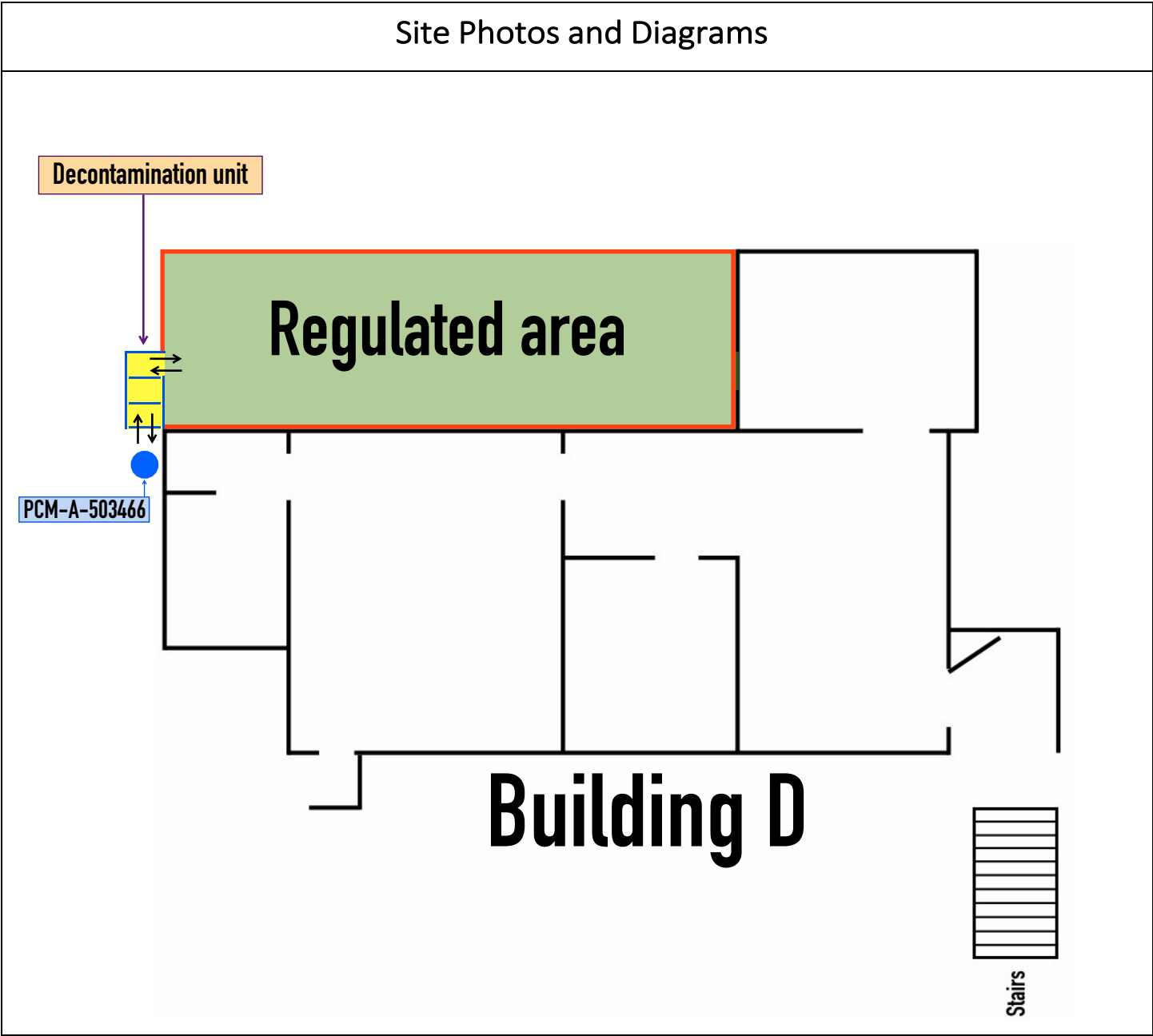
ACC Staff Signature:

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Site Photos and Diagrams

Project Information		Date:	08/20/2019 Tuesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca. Building D, Ext-Contaminated Soil with ACM TSI Pipe Insulation Debris Abatement.				
Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		



M. Massoud Navvab

ACC Staff Signature:

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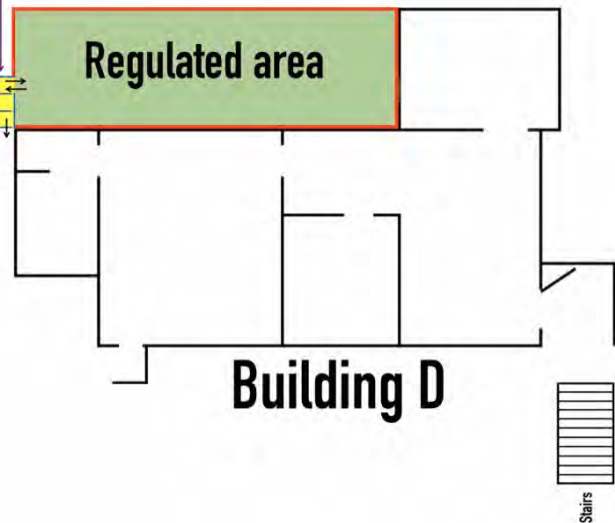
Site Photos and Diagrams

Project Information		Date:	08/20/2019 Tuesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca. Building D, Ext-Contaminated Soil with ACM TSI Pipe Insulation Debris Abatement.				
Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		

Site Photos and Diagrams



Decontamination unit



Building D



Negative Air Pressure **6:37 AM**



Negative Air Pressure **8:40 AM**



Contaminated Soil are bagged in Waste plastic asbestos bags

M. Massoud Navvab

ACC Staff Signature:

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FINAL VISUAL INSPECTION

Project Information				Date:	08/20/2019 Tuesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.						
Project Address:	2892 Fairmont Drive, San Leandro, Ca. Building D, Ext-Contaminated Soil with ACM TSI Pipe Insulation Debris Abatement.						
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)			Project Manager:	Stephen Jackson (OAK)		
Contractor:	Conflo Services, Inc. Abatement/Demolition			Supervisor Name:	Mario Ortega		
Type of Work:	<input checked="" type="checkbox"/> Asbestos	<input type="checkbox"/> Lead	<input type="checkbox"/> Mold	Time of Inspection:	1:00 AM <input checked="" type="checkbox"/> PM		
Materials Removed:	Asbestos Containing TSI Pipe Insulation debris mixed with Soil on the south ground area of Building D,						
Containment Location:	Building D, South Exterior ground area.						
Visual Inspection:	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail	Was the Contractor's Supervisor present during the inspection?			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

If Failed, please give a short explanation as to why:			
Please check off any possible contributing factors:		<input type="checkbox"/> Debris Remaining	<input type="checkbox"/> Bulk Material Remaining
Photos of deficiencies collected?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Inadequate Lighting	<input type="checkbox"/> Inadequate Equipment

Contractor's Certification		Owners Representative Certification	
In accordance with Project Decontamination requirements for project, the abatement contractor hereby certifies they have visually inspected ALL work area surfaces and have found no visible dust, debris or residue.		ACC Environmental Consultants, Inc., hereby certifies that we have accompanied the Contractor on the final visual inspection and verified the inspection to be thorough, and to the best of our knowledge, the Contractor's adjacent statement is a true and honest one.	
Signature:		Signature:	
Print Name:	Mario Ortega	Print Name:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)
Print Title:	Project Supervisor	Print Title:	Project Technician
Company:	Conflo Services, Inc. Abatement/Demolition	Company:	ACC Environmental Consultants, Inc.

Clearance Sampling Summary

Sample Date	Sample Number	Sample Location	Total Volume in Liters (L)	Result	Pass/Fail
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				
	No Sample				

Air Sampling Passed?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Visual Inspection Only		
Clearance Criteria:	PCM (<0.01 f/cc)	TEM AHERA (<70s/mm ²)	<input type="checkbox"/> Mold	Other:
Comments:	Final PCM Clearance will be on Wednesday 08/21/19 in the morning.			

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AIR SAMPLE ANALYSIS FORM

Report To:	Stephen Jackson (OAK); Email: sjackson@accenv.com; Phone: (510) 512-8320						Turnaround Time:	On-Site [RUSH]				
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.											
Project Address:	2892 Fairmont Drive, San Leandro, Ca. Building D, Ext-Contaminated Soil with ACM TSI Pipe Insulation Debris Abatement.											
Project Number:	2062-163.00				Analysis Requested							
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)				✓ PCM: NIOSH 7400		TEM: AHERA		TEM: Level II		TEM: 7402 Method	
ACC Onsite Analysis?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Lead		Non-Viable Fungi		Other		Rotameter ID:	HF-02
Sample Number	Lab ID	Sample Type	Date Collected	LPM On LPM Off	Average LPM	Time On Time Off	Total Minutes	Total Liters	Sample Location	Fibers	Fields	
A-503466	ACC-N-10015	Perimeter	08/20/2019 Tuesday	8.76 8.76	8.76	6:30 am 01:05 pm	395	3460.20 L	Building D, South Ext-Contaminated soil asbestos abatement Containment. Entrance to the decontamination unit.	5.5	100	
No Sample												
No Sample												
No Sample												
No Sample												
No Sample												
No Sample												
No Sample												
Released by:					Signature:				Date:	08/20/2019	Time:	
Received by:					Signature:				Date:		Time:	
Comments:												
Laboratory Performing Analysis:												

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PRE-ABATEMENT CONTAINMENT INSPECTION

Project Information		Date:	08/20/2019 Tuesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca. Building D, Ext-Contaminated Soil with ACM TSI Pipe Insulation Debris Abatement.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		
Contractor:	Conflo Services, Inc. Abatement/Demolition	Supervisor Name:	Mario Ortega		
Type of Work:	<input checked="" type="checkbox"/> Asbestos	<input type="checkbox"/> Lead	<input type="checkbox"/> Mold	Asbestos Work Class:	<input checked="" type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III
Containment Location:	Building D, South Exterior contaminated ground area.				

Site Observations	Yes	No	NA	Comments
Is the work area isolated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is access to work area adequately restricted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there a designated area for resting & eating with drinking water available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are OSHA notifications posted outside the work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are EPA/NESHAP notifications posted outside the work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are site conditions or pre-existing damage noted and photographed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are EPA, UN and OSHA waste labels on-site & ready for waste containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are waste dumpsters lined with poly and labeled with OSHA warning signs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Containment Setup	Yes	No	NA	Comments
Are OSHA warning signs (English & Spanish) posted at all entrances to work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is poly sheeting flame retardant?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are 2 layers of poly (6 mil.) on the floor and 2 layers (4 mil.) on the walls?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	One layer, Exterior work activities.
Is poly sheeting adequately secured to walls and floors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are critical barriers installed over HVAC vents, doors, windows and other openings?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has the HVAC system been shut down, locked out?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NO HVAC System.
Are drop cloths in place?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are emergency exits identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there adequate lighting (200 watts/1000 square feet)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Also Day light.
Have temporary power systems equipped with GFCI been installed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Waste load-out path-of-travel protected?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is local ventilation in-place for the work activities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are extension cords safely suspended off the ground?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	In progress

Negative Pressure	Yes	No	NA	Comments
Has containment passed smoke test & with no stagnant air present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If required, is a manometer installed and functioning properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has the manometer been calibrated to zero?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is negative pressure measuring to project requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has DOP testing of HEPA equipment been performed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Have failed DOP tested equipment been removed or marked to prevent use?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	



PRE-ABATEMENT CONTAINMENT INSPECTION

Project Information		Date:	08/20/2019 Tuesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca. Building D, Ext-Contaminated Soil with ACM TSI Pipe Insulation Debris Abatement.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Emergency and Safety Equipment	Yes	No	NA	Comments
Are SDS sheets on site and accessible?	✓			
Is there and adequate first-aid kit on site?	✓			
Are all fire extinguishers inspected (yearly and monthly) and up-to date?	✓			
Are emergency numbers posted onsite, with routes to the hospital?	✓			
Is a floor plan indicating all exits and major equipment posted?	✓			
Is the main power in the work area shutdown and locked out?	✓			
Are all electrically powered tools and equipment equipped with a waterproof GFCI?	✓			
Does all scaffolding have safety rails, toe-kicks & fall protection if necessary?			✓	

Decontamination Unit		Yes	No	NA	Comments
Chamber 1: Clean Room	Are entrance doors properly constructed?	✓			
	Are ceilings and walls covered with poly?	✓			
	Is the chamber floor free of obstructions and clutter?	✓			
	Are linens and/or towels available?	✓			
	Are the entrance flaps properly constructed?	✓			
Chamber 2: Shower	Is HOT water available?			✓	
	Are soap, shampoo, linens and/or towels available?			✓	
	Is the floor beneath the shower pan properly protected?			✓	
	Does the shower provide a good spray?			✓	
	Is water being filtered through a 3-stage to 1-micrometer filter?			✓	
Chamber 3: Dirty Room	Is there a disposal bag for protective clothing?	✓			
	Is there a drop cloth on the floor?	✓			
	Is there a positive pressure airlock attached from the work area?			✓	
Chamber 4: Equipment Decon	Is there a separate equipment decontamination chamber?			✓	
	Is there a positive pressure airlock attached from the work area?			✓	

Additional Notes and Observations

ACC Staff Signature:

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DAILY PROJECT REPORT

Project Information		Date:	08/21/2019 Wednesday	Project Number:	2062-163.00
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Project Address:	2892 Fairmont Drive, San Leandro, Ca. Building D, Ext-Contaminated Soil with ACM TSI Pipe Insulation Debris Abatement.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Shift Activities

Containment Setup	Containment Inspection	Bulk Material Removal	Perimeter Air Sampling	Final Detail Cleaning	Waste Load-Out	Final Visual Inspection	Final Air Clearance	Containment Tear-Down	Equipment De-Mobilize
					✓				✓
Work Area Location		General Debris Removed			Materials Removed (Asbestos & Lead)			Quantity	SF/LF
Total Number of Work Areas:		1	Total Number of Containments:		1	See Notes for Additional Work Areas/ Materials Not Listed Above			
Asbestos Work Class:		Class I		Class II		Class III		Unclassified	

Materials Removed

Asbestos Removal		Lead Removal		Additional Hazardous Materials	
Contractor Assistance	Roofing Materials	Lead-Based Coating/ Paint		Mercury Vapor Light Tubes	Water Damaged Materials
Spot Abatement	Miscellaneous Materials	Lead-Containing Coating/ Paint		PCB Ballasts	Mold-Impacted Materials
Ceiling Materials	Surfacing Materials	Lead Glazed Ceramic Tile		Mercury Thermostat Switches	Indoor Air Quality (IAQ)
Flooring Materials	TSI/Insulation Materials	Loose & Peeling Lead Paint			
Wall Materials		Lead Sheeting			

Contractor Information

Contractor:	Conflo Services, Inc. Abatement/Demolition			Supervisor Name:	Mario Ortega		
Crew Size	3	Total No. of Personal Samples:	0	8-hour TWA:	0	Excursion:	0
Shift Start Time:	06:00 am	Lunch Time:	10:00 am	Shift Finish Time:	02:30 pm	Total Hours:	8.00

Personal Protective Equipment

½ Face Respirator	✓	HEPA/ P100 Cartridges	✓	Full Body Disposable Suit	✓	Hard Hat	✓	Gloves
Full Face Respirator		Organic Vapor Cartridges		Disposable Suit w/ Hood	✓	Safety Glasses	✓	Steel Toe/Shank Boots
✓ PAPR		Acid Gas Cartridges	✓	Neon Vest		Hearing Protection		Fall Protection
Supplied Air Respirator		Piggy-back Cartridges		Other:				

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Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Air Monitoring Information

Air Sampling Performed by ACC During Shift?		Yes	<input checked="" type="checkbox"/> No	Total Number of Samples Collected:		0
# of Samples	Cassette Type	Sample Type	Sample Numbers			
Onsite PCM Analysis Performed?		Yes	No	Name of Analyst:		
Laboratory Name, City:						

Engineering Controls & Work Area Setup

<input checked="" type="checkbox"/> Negative Pressure Enclosure	Splash Guards	<input checked="" type="checkbox"/> Three-Stage w/Shower	Building Power	No Odor Mastic Remover
Mini Containment	<input checked="" type="checkbox"/> Drop Sheet	Two-Stage w/Hudson	Temp Power Box	<input checked="" type="checkbox"/> Wet Removal Methods
Clean Cube	<input checked="" type="checkbox"/> View Ports	One-Stage w/Hudson	<input checked="" type="checkbox"/> Contractor Supplied Power	NPU Charcoal Filters
Glove Bags	<input checked="" type="checkbox"/> English Warning Signs	"Z" Flap Air-Locks	<input checked="" type="checkbox"/> GFCI Protection	<input checked="" type="checkbox"/> Fire Extinguishers
Critical Barriers	<input checked="" type="checkbox"/> Spanish Warning Signs	No Decon Required	<input checked="" type="checkbox"/> Temporary Lighting	<input checked="" type="checkbox"/> DOP Test Air Filtration Unit
<input checked="" type="checkbox"/> Poly Walls (min 4-mil.)	Hazard Barrier Tape	Remote Shower	<input checked="" type="checkbox"/> Contractor Supplied Water	<input checked="" type="checkbox"/> DOP Test HEPA Vacuum
Poly Floors (min. 6-mil.)	<input checked="" type="checkbox"/> -0.02" Negative Pressure	Separate Load-Out	NPU Exhaust Location: Outside the containment.	
<input checked="" type="checkbox"/> Poly Ceiling (min 4-mil.)	-0.04" Negative Pressure	Shut Down HVAC	Other: There is NO HVAC system in the Building.	

Contractor Work Practice Information

	Yes	No	NA
Have copies of worker documents been received from the contractor in compliance with the scope of work?	<input checked="" type="checkbox"/>		
Are 'OSHA' personal air monitoring sample results being posted daily?			<input checked="" type="checkbox"/>
Are workers going through the proper decontamination sequence upon leaving the work areas?	<input checked="" type="checkbox"/>		
Are good safety practices being followed at the job site?	<input checked="" type="checkbox"/>		
Are workers demonstrating good "housekeeping" techniques?	<input checked="" type="checkbox"/>		
Is ACM (greater than >1%) being bagged and labeled as asbestos waste?	<input checked="" type="checkbox"/>		
Is water being used continuously to mist air, wet materials during removal and keep waste bags/ materials saturated?	<input checked="" type="checkbox"/>		
Are waste containers properly lined with poly, labeled, sealed, secured/ locked to prevent public access?	<input checked="" type="checkbox"/>		

Waste Information

Waste Type	Manifest Type	Manifest Number	Date	ID Number:
1.				
2.				
3.				
Transporter 1:				
Transporter 2:				
Designated Facility Name:				

ACTIVITIES LOG

Project Information		Date:	08/21/2019 Wednesday	Project Number:	2062-163.00
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Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Time: Contractor Activity / Notable Occurrence

What Materials Are Removed - From Where - How Many Workers - Performing What Tasks - Using What Methods?
Any Problems, Visitors, Complaints?

6:00 AM : Conflo Services, Inc. Abatement/Demolition crew (3 men) are onsite.
 6:15 AM : Conflo Conflo Services, Inc. Abatement/Demolition crew started to remove their equipments from the rental metal storage area & leave them on the ground to be loaded in to the Conflo Company truck later on today when is arrived.
 7:00 : Conflo Conflo Services, Inc. Abatement/Demolition crew with PPE (Suit, PAPR respirators, Etc.) are going inside the regulated area which is located next to the Building D, South exterior wall ground level that the contaminated soil mixed with ACM TSI Pipe Insulation Debris, has been removed & all surfaces on plastic & CMU walls are wiped down to start the final encapsulation Inside the containment area. the negative air pressure (-0.030 " H2O Hg) & critical barriers & the decontamination unit are all in an acceptable condition.
 7:30 AM : Conflo Services, Inc. Abatement/Demolition crew with PPE (Suit, PAPR respirators, Etc.) have completed the final encapsulation Inside the containment area & they are leaving the containment area through the decontamination unit.
 7:45 AM : ACC Project technician collected three PLM Soil Bulk samples & is going to deliver three PLM Soil Bulk Samples to Forensic Analytical Laboratory for 4 Hours RUSH Analyses.
 8:45 AM : ACC Project technician have delivered three PLM Soil Bulk Samples to Forensic Analytical Laboratory for 4 Hours RUSH Analyses.
 9:30 AM : ACC Project technician have returned to the job site.
 9:40 AM : Conflo Services, Inc. Abatement/Demolition project Superintendent (Daniel) is onsite & associated information regarding the PLM Bulk sampling & delays on the final PCM Clearance is reviewed with him. Conflo Services, Inc. Abatement/Demolition crew also are continuing moving their equipments & their abatement project materials in to the Conflo company truck which arrived short time ago.
 10:00 AM : Conflo Services, Inc. Abatement/Demolition crew are leaving the job site & they are going for a lunch break.
 11:00 AM : Conflo Services, Inc. Abatement/Demolition crew are back from the lunch break. Crew are going to continue the demobilization & loading universal waste (light bulb, PCB & NON-PCB Ballasts, (batteries, stored in metal barrels) in to the Company truck.
 12:45 PM : Conflo Services, Inc. Abatement/Demolition crew have completed the demobilization. There are two Barrels left in the job site next to the building C which are contained waste Lead Hazard. Conflo Services, Inc. Abatement/Demolition is going to do the waste characterization for these waste materials prior to be taken out of the job site. The containment metal framing & plastic barrier structure next to the building D, South exterior ground following completion of the Contaminated soil with ACM TSI Pipe Insulation debris clean up will stay up until further notice by the GSA Alameda County. Conflo crew are waiting for FERMA to come in to the job site for Hazardous waste dumpster pick up.
 1:30 PM : FERMA Truck is onsite to pick up the hazardous waste dumpster.
 2:15 PM : FERMA Truck picked up the dumpster & left the job site.
 2:30 PM : Conflo Services crew are out of the job site.



ACC Staff Signature:

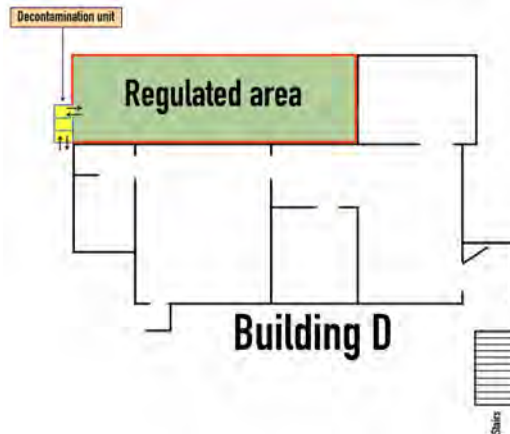
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 Southern California: 1055 Wilshire Boulevard, Suite 1450 • Los Angeles, California 90017 • (213) 353-1240 • Fax (213) 353-1244

Site Photos and Diagrams

Project Information		Date:	08/21/2019 Wednesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca. Building D, Ext-Contaminated Soil with ACM TSI Pipe Insulation Debris Abatement.				
Project Technician:	M.Massoud Navvab CAC # 98-2531 Lead # 8555	Project Manager:	Stephen Jackson (OAK)		

Site Photos and Diagrams



Before Contaminated Soil with ACM TSI Pipe Insulation debris clean up



Inside the Containment on Monday 08/19/19

After Contaminated Soil with ACM TSI Pipe Insulation debris clean up



Inside the Containment on Wednesday 08/21/19

M. Massoud Navvab

ACC Staff Signature:

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PRE-ABATEMENT CONTAINMENT INSPECTION

Project Information		Date:	08/21/2019 Wednesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca. Building D, Ext-Contaminated Soil with ACM TSI Pipe Insulation Debris Abatement.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		
Contractor:	Conflo Services, Inc. Abatement/Demolition	Supervisor Name:	Mario Ortega		
Type of Work:	<input checked="" type="checkbox"/> Asbestos	<input type="checkbox"/> Lead	<input type="checkbox"/> Mold	Asbestos Work Class:	<input checked="" type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III
Containment Location:	Building D, South Exterior contaminated ground area.				

Site Observations	Yes	No	NA	Comments
Is the work area isolated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is access to work area adequately restricted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there a designated area for resting & eating with drinking water available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are OSHA notifications posted outside the work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are EPA/NESHAP notifications posted outside the work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are site conditions or pre-existing damage noted and photographed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are EPA, UN and OSHA waste labels on-site & ready for waste containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are waste dumpsters lined with poly and labeled with OSHA warning signs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Containment Setup	Yes	No	NA	Comments
Are OSHA warning signs (English & Spanish) posted at all entrances to work area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is poly sheeting flame retardant?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are 2 layers of poly (6 mil.) on the floor and 2 layers (4 mil.) on the walls?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	One layer, Exterior work activities.
Is poly sheeting adequately secured to walls and floors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are critical barriers installed over HVAC vents, doors, windows and other openings?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has the HVAC system been shut down, locked out?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NO HVAC System.
Are drop cloths in place?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are emergency exits identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there adequate lighting (200 watts/1000 square feet)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Also Day light.
Have temporary power systems equipped with GFCI been installed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Waste load-out path-of-travel protected?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is local ventilation in-place for the work activities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are extension cords safely suspended off the ground?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I

Negative Pressure	Yes	No	NA	Comments
Has containment passed smoke test & with no stagnant air present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If required, is a manometer installed and functioning properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has the manometer been calibrated to zero?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is negative pressure measuring to project requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has DOP testing of HEPA equipment been performed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Have failed DOP tested equipment been removed or marked to prevent use?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	



PRE-ABATEMENT CONTAINMENT INSPECTION

Project Information		Date:	08/21/2019 Wednesday	Project Number:	2062-163.00
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca. Building D, Ext-Contaminated Soil with ACM TSI Pipe Insulation Debris Abatement.				
Project Technician:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555)	Project Manager:	Stephen Jackson (OAK)		

Emergency and Safety Equipment	Yes	No	NA	Comments
Are SDS sheets on site and accessible?	✓			
Is there and adequate first-aid kit on site?	✓			
Are all fire extinguishers inspected (yearly and monthly) and up-to date?	✓			
Are emergency numbers posted onsite, with routes to the hospital?	✓			
Is a floor plan indicating all exits and major equipment posted?	✓			
Is the main power in the work area shutdown and locked out?	✓			
Are all electrically powered tools and equipment equipped with a waterproof GFCI?	✓			
Does all scaffolding have safety rails, toe-kicks & fall protection if necessary?			✓	

Decontamination Unit		Yes	No	NA	Comments
Chamber 1: Clean Room	Are entrance doors properly constructed?	✓			
	Are ceilings and walls covered with poly?	✓			
	Is the chamber floor free of obstructions and clutter?	✓			
	Are linens and/or towels available?	✓			
	Are the entrance flaps properly constructed?	✓			
Chamber 2: Shower	Is HOT water available?			✓	
	Are soap, shampoo, linens and/or towels available?			✓	
	Is the floor beneath the shower pan properly protected?			✓	
	Does the shower provide a good spray?			✓	
	Is water being filtered through a 3-stage to 1-micrometer filter?			✓	
Chamber 3: Dirty Room	Is there a disposal bag for protective clothing?	✓			
	Is there a drop cloth on the floor?	✓			
	Is there a positive pressure airlock attached from the work area?			✓	
Chamber 4: Equipment Decon	Is there a separate equipment decontamination chamber?			✓	
	Is there a positive pressure airlock attached from the work area?			✓	

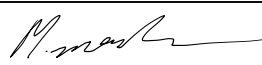
Additional Notes and Observations

ACC Staff Signature:

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BULK SAMPLE CHAIN-OF-CUSTODY

Report to:	Steve Jackson	Email:	sjackson@accenv.com	Phone:	(510)512-8320
Project Name:	2892 Fairmont Drive, San Leandro, Ca. Building D, South Exterior ground area with contaminated soil Asbestos Abatement.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca.			Project Number:	2062-163.00
Collected by:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555).			Date Collected:	08/21/19 Wednesday
Sample Analysis:	✓ PLM	Lead		Stop at 1 st Positive Layer	Turnaround Time: RUSH (4 Hours)
Comments:	Please analyze All 3 PLM Samples. Thanks				
Sample ID	Material Size-Color-Pattern-Material-Post Description	Material Location [Quantity] Building or Floor: Area(s) - Component	Sample Location Area - Component	Size	
S0-01-01	Contaminated Soil	Building D, South exterior ground area	Building D, South exterior ground soil, east section	Bulk Sample	
S0-01-02	Contaminated Soil	Building D, South exterior ground area	Building D, South exterior ground soil, Middle section	Bulk Sample	
S0-01-03	Contaminated Soil	Building D, South exterior ground area	Building D, South exterior ground soil, West section	Bulk Sample	
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
Released:	M.Massoud Navvab	Signature:		Date:	08/21/19
Received:		Signature:		Date:	
Lab Info:	EMSL Analytical, Inc. (EMSL): 464 McCormick Street, San Leandro, California 94577, (510) 895-3675 ✓ Forensic Analytical Laboratories, Inc. (FALI): 3777 Depot Road # 409, Hayward, California 94545, (510) 887-8828				

Laboratory Reports



Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)

NVLAP Lab Code: 101459-0

ACC Environmental Consultants
Steve Jackson
7977 Capwell Dr., Suite 100
Oakland, CA 94621

Client ID: 1117
Report Number: B292369
Date Received: 08/28/19
Date Analyzed: 08/29/19
Date Printed: 08/29/19
First Reported: 08/29/19

Job ID/Site: 2062-163.00 - ALCO Nike Site, 2829 Fairmont Dr., San Leandro

SGSFL Job ID: 1117
Total Samples Submitted: 3
Total Samples Analyzed: 3

Date(s) Collected: 08/28/2019

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
VB-1-1	12207260						
Layer: Black Fibrous Material			ND				
Total Composite Values of Fibrous Components: Cellulose (80 %)		Asbestos (ND)					
VB-1-2	12207261						
Layer: Black Fibrous Material			ND				
Total Composite Values of Fibrous Components: Cellulose (80 %)		Asbestos (ND)					
V-B-1-3	12207262						
Layer: Black Fibrous Material			ND				
Total Composite Values of Fibrous Components: Cellulose (80 %)		Asbestos (ND)					

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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BULK SAMPLE CHAIN-OF-CUSTODY

Report to:	Stephen Jackson (OAK)	Email:	s.jackson@accenv.com	Phone:	Mark: (510) 773-7303
Project Name:	ALCO NIKE Site				
Project Address:	2829 Fairmont Dr San Leandro			Project Number:	2062-163.00
Collected by:	SJ			Date Collected:	08/28/2019
Analysis:	PLM Opaques/Soot	<input type="checkbox"/>	Stop at 1 st Positive Layer	Turnaround Time:	24 Hour
Comments:					

[illegible]

Released:	Stephen Jackson	Signature: <i>Stephen Jackson</i>	Date:	08/28/2019	Time:	
Received:		Signature:	Date:		Time:	1:18p
Lab Info:	Forensic Analytical Laboratories, Inc.: 3727 Depot Road #409, Hayward, California 94545 - (510) 887-8828					

AIR SAMPLE ANALYSIS FORM



Report To:		Stephen Jackson (OAK); Email: sjackson@accenv.com; Phone: (510) 512-8320				Turnaround Time:		Standard (3-5 Day)					
Project Name:		Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.											
Project Address:		2892 Fairmont Drive, San Leandro, Ca, Building B, Building C, Building D & the guard shed structure by the gate.											
Project Number:		2062-163.00		Analysis Requested									
Project Technician:		M.Massoud Navab (CAC # 98-2531 Lead # 8555)				PCM: NIOSH 7400		TEM: AHERA					
ACC Onsite Analysis?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Lead AA		Non-Viable Fungi		Other					
						TEM: Level II		TEM: 7402 Method					
								Rotameter ID: HF-02					
Sample Number	Lab ID	Sample Type	Date Collected	LPM On	LPM Off	Average LPM	Time On	Time Off	Total Minutes	Total Liters	Sample Location	Fibers Results (f/cc)	Fields
L-11800		Perimeter	07/31/2019 Wednesday	13.68	13.68	13.68	6:30 am	12:00 pm	330	4514.40 L	Building C, South exterior wall.		
L-11810		Perimeter	08/01/2019 Thursday	13.68	13.68	13.68	06:45 am	12:15 pm	330	4514.40 L	Building C, Next to the south exterior wall close to the temporary entrance to the building interior.		
No Sample													
No Sample													
No Sample													
No Sample													
No Sample													
No Sample													
Released by:		M.Massoud Navab		Signature:		Date:		08/01/2019		Time:			
Received by:				Signature:		Date:				Time:			
Comments:		<p>By: <i>[Signature]</i> AUG 02 2019</p>											
Laboratory Performing Analysis:		Forensic Analytical Laboratories, Inc.: 3777 Depot Road #409, Hayward, California 94545 - (510) 887-8828											

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Metals Analysis of Air Filters

(AIHA-LAP, LLC Accreditation, Lab ID #101762)

ACC Environmental Consultants
Project Manager
7977 Capwell Dr., Suite 100

Oakland, CA 94621

Client ID: 1117
Report Number: M214188
Date Received: 08/02/19
Date Analyzed: 08/07/19
Date Printed: 08/07/19
First Reported: 08/07/19

Job ID / Site: 2062-163.00 - Alameda County General Services Agency Nike Site Hazardous
Materials Abatement and Demo, 2892 Fairmont Drive, San Leandro CA
Date(s) Collected: 7/31/19-8/01/19

FALI Job ID: 1117
Total Samples Submitted: 2
Total Samples Analyzed: 2

Sample Number	Lab Number	Volume	Analyte	Result	Result Units	Reporting Limit*	Method Reference
L-11800	30843914	4,514 L	Pb	< 1	ug/m3	1	NIOSH 7082
L-11810	30843915	4,514 L	Pb	< 1	ug/m3	1	NIOSH 7082

* The Reporting Limit represents the lowest amount of analyte that the laboratory can confidently detect in the sample, and is not a regulatory level. The Units for the Reporting Limit are the same as the Units for the Final Results.

Sophie Kuang, Laboratory Supervisor, Hayward Laboratory

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Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)
NVLAP Lab Code: 101459-0

ACC Environmental Consultants
Project Manager
7977 Capwell Dr., Suite 100
Oakland, CA 94621

Client ID: 1117
Report Number: B291066
Date Received: 08/02/19
Date Analyzed: 08/02/19
Date Printed: 08/02/19
First Reported: 08/02/19

Job ID/Site: 2062-163.00 - 2892 Fairmont Drive., San Leandro, CA Building D.

FALI Job ID: 1117
Total Samples Submitted: 6
Total Samples Analyzed: 2

Date(s) Collected: 08/02/2019

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PI-01-01	12197327						
Layer: White Semi-Fibrous Material		Amosite	15 %	Chrysotile	Trace		
Total Composite Values of Fibrous Components:		Asbestos (15%)					
Cellulose (Trace)							
PI-01-02	12197328						
Comment: Sample not analyzed due to prior positive result in series.							
PI-01-03	12197329						
Comment: Sample not analyzed due to prior positive result in series.							
PI-02-01	12197330						
Layer: Off-White Fibrous Material		Chrysotile	70 %				
Total Composite Values of Fibrous Components:		Asbestos (70%)					
Cellulose (10 %)							
PI-02-02	12197331						
Comment: Sample not analyzed due to prior positive result in series.							
PI-02-03	12197332						
Comment: Sample not analyzed due to prior positive result in series.							

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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BULK SAMPLE CHAIN-OF-CUSTODY

Report to:	Steve Jackson	Email:	sjackson@accenv.com	Phone:	(510) 512-8320
Project Name:	Alameda County General Services Agency Nike Site Hazardous Materials Abatement and Demolition.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca, Building D.			Project Number:	2062-163.00
Collected by:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555).			Date Collected:	08/02/19
Sample Analysis:	✓ PLM	Lead	✓ Stop at 1 st Positive Layer	Turnaround Time:	4 Hours RUSH
Comments:	Please analyze PLM Samples prior to the 1st positive test result. Thanks				
Sample ID	Material Size-Color-Pattern-Material-Post Description	Material Location [Quantity] Building or Floor: Area(s) - Component	Sample Location Area - Component	Size	
PI-01-01 PI-01-02 PI-01-03	Pipe Insulation (TSI) 3" O.D. Pipe Insulation (TSI) 3" O.D. Pipe Insulation (TSI) 3" O.D.	Building D, South exterior Landscaping area on the dirt & inside the dirt. Approximately > 100 SF.	01- Ext- Landscaping area , South Section. 02-Ext- Landscaping area , South Section. 03-Ext- Landscaping area , South Section.	Bulk Sample	
PI-02-01 PI-02-02 PI-02-03	Pipe Insulation (TSI) 3" O.D. (Air-O-Cell). Pipe Insulation (TSI) 3" O.D. (Air-O-Cell). Pipe Insulation (TSI) 3" O.D. (Air-O-Cell).	Building D, South exterior Landscaping area on the dirt & inside the dirt. Approximately > 100 SF.	01- Ext- Landscaping area , South Section. 02-Ext- Landscaping area , South Section. 03-Ext- Landscaping area , South Section.	Bulk Sample	
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
Released:	M.Massoud Navvab	Signature:	<i>M. Navvab</i>	Date:	08/02/19
Received:		Signature:		Date:	
<p>EMSL Analytical, Inc. (EMSL): 464 McCormick Street, San Leandro, California 94577, (510) 895-3675</p> <p>Lab Info: ✓ Forensic Analytical Laboratories, Inc. (FAL): 3777 Depot Road # 409, Hayward, California 94545, (510) 887-8828</p>					



Metals Analysis of Bulks - TTLC

(AIHA-LAP, LLC Accreditation, Lab ID #101762)

ACC Environmental Consultants
Steve Jackson
7977 Capwell Dr., Suite 100

Oakland, CA 94621

Client ID: 1117
Report Number: M214163
Date Received: 08/02/19
Date Analyzed: 08/02/19
Date Printed: 08/02/19
First Reported: 08/02/19

Job ID / Site: 2062-163.00, 2892 Fairmont Drive, San Leandro, CA
Date(s) Collected: 7/23/19

FALI Job ID: 1117
Total Samples Submitted: 2
Total Samples Analyzed: 2

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
PB-01-01	30843867	Pb	2700	mg/kg	200	EPA 3050B/7000B
PB-02-01	30843868	Pb	800	mg/kg	70	EPA 3050B/7000B

* The Reporting Limit represents the lowest amount of analyte that the laboratory can confidently detect in the sample, and is not a regulatory level. The Units for the Reporting Limit are the same as the Units for the Final Results.

Sophie Kuang, Laboratory Supervisor, Hayward Laboratory

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BULK SAMPLE CHAIN-OF-CUSTODY

Report to:	Steve Jackson	Email:	sjackson@accenv.com	Phone:	(510)512-8320
Project Name:	2892 Fairmont Drive, San Leandro, Ca.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca.			Project Number:	2062-163.00
Collected by:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555).			Date Collected:	07/23/19
Sample Analysis:	PLM	Lead	✓ STLC & TCLP	Stop at 1 st Positive Layer	Turnaround Time: 5 Days
Comments:	Waste characterization Samples <small>STLC = Soluble Threshold Limit Concentration. TCLP = Toxicity Characteristic Leaching Procedure.</small>				
Sample ID	Material Size-Color-Pattern-Material-Post Description	Material Location [Quantity] Building or Floor: Area(s) - Component	Sample Location Area - Component	Size	
PB-01-01	Interior plywood & Loose & peeling paint.	Guard Shed interior walls	Guard Shed interior walls	Bulk Sample	
PB-02-01	Dried Sludge	Building D, on the floor	Building D, on the floor	Bulk Sample	
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample		Per Steve,			
No Sample		TTC - Both samples rush (Spm)			
No Sample		cygn 9 ³⁰ am			
No Sample					
No Sample					
No Sample					
No Sample					
Released:	M.Massoud Navvab	Signature:	<i>M. Navvab</i>	Date:	07/23/19
Received:		Signature:		Date:	
EMSL Analytical, Inc. (EMSL): 464 McCormick Street, San Leandro, California 94577, (510) 895-3675 Lab Info: ✓ Forensic Analytical Laboratories, Inc. (FALI): 3777 Depot Road # 409, Hayward, California 94545, (510) 887-8828					



Metals Analysis of TCLP Extract

ACC Environmental Consultants

Steve Jackson

7977 Capwell Dr., Suite 100

Oakland, CA 94621

Client ID: 1117

Report Number: M213734

Date Received: 07/23/19

Date Analyzed: 07/30/19

Date Printed: 07/30/19

First Reported: 07/30/19

Job ID / Site: 2062-163.00, 2892 Fairmont Drive, San Leandro, CA

Date(s) Collected: 07/23/19

FALI Job ID: 1117

Total Samples Submitted: 2

Total Samples Analyzed: 2

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
PB-01-01	30842684	Pb	1.9	mg/l	0.3	TCLP EPA 1311/7000B
Comment :	Sample particle size not fully reduced as stated in published method due to unusual sample contents.					
PB-02-01	30842685	Pb	1.0	mg/l	0.3	TCLP EPA 1311/7000B
Comment :	Sample particle size not fully reduced as stated in published method due to unusual sample contents.					

* The Reporting Limit represents the lowest amount of analyte that the laboratory can confidently detect in the sample, and is not a regulatory level. The Units for the Reporting Limit are the same as the Units for the Final Results.

Sophie Kuang, Laboratory Supervisor, Hayward Laboratory

Analytical results and reports are generated by Forensic Analytical at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by Forensic Analytical to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by Forensic Analytical. The client is solely responsible for the use and interpretation of test results and reports requested from Forensic Analytical. Forensic Analytical is not able to assess the degree of hazard resulting from materials analyzed. Forensic Analytical reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. Any modifications that have been made to referenced test methods are documented in Forensic Analytical's Standard Operating Procedures Manual. Quality control and sample receipt condition were acceptable unless otherwise noted.

BULK SAMPLE CHAIN-OF-CUSTODY

Report to:	Steve Jackson	Email:	sjackson@accenv.com	Phone:	(510)512-8320
Project Name:	2892 Fairmont Drive, San Leandro, Ca.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca.			Project Number:	2062-163.00
Collected by:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555).			Date Collected:	07/23/19
Sample Analysis:	PLM	Lead	✓ STLC & TCLP	Stop at 1 st Positive Layer	Turnaround Time: 5 Days
Comments:	Waste characterization Samples <small>STLC = Soluble Threshold Limit Concentration. TCLP = Toxicity Characteristic Leaching Procedure.</small>				
Sample ID	Material <small>Size-Color-Pattern-Material-Post Description</small>	Material Location [Quantity] <small>Building or Floor: Area(s) - Component</small>	Sample Location <small>Area - Component</small>	Size	
PB-01-01	Interior plywood & Loose & peeling paint.	Guard Shed interior walls	Guard Shed interior walls	Bulk Sample	
PB-02-01	Dried Sludge	Building D, on the floor	Building D, on the floor	Bulk Sample	
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
Released:	M.Massoud Navvab	Signature:	<i>M. Navvab</i>	Date:	07/23/19
Received:		Signature:		Date:	
Lab Info: ✓ Forensic Analytical Laboratories, Inc. (FALI): 3777 Depot Road # 409, Hayward, California 94545, (510) 887-8828 EMSL Analytical, Inc. (EMSL): 464 McCormick Street, San Leandro, California 94577, (510) 895-3675					



Metals Analysis of STLC Extract

ACC Environmental Consultants

Steve Jackson

7977 Capwell Dr., Suite 100

Oakland, CA 94621

Client ID: 1117

Report Number: M213733

Date Received: 07/23/19

Date Analyzed: 07/31/19

Date Printed: 07/31/19

First Reported: 07/31/19

Job ID / Site: 2062-163.00, 2892 Fairmont Drive, San Leandro, CA

Date(s) Collected: 07/23/19

FALI Job ID: 1117

Total Samples Submitted: 2

Total Samples Analyzed: 2

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
PB-01-01	30842682	Pb	1.0	mg/l	0.7	CWET/EPA 7000B
Comment :	Sample particle size not fully reduced as stated in published method due to unusual sample contents.					
PB-02-01	30842683	Pb	0.7	mg/l	0.7	CWET/EPA 7000B
Comment :	Sample particle size not fully reduced as stated in published method due to unusual sample contents.					

* The Reporting Limit represents the lowest amount of analyte that the laboratory can confidently detect in the sample, and is not a regulatory level. The Units for the Reporting Limit are the same as the Units for the Final Results.

Sophie Kuang, Laboratory Supervisor, Hayward Laboratory

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Metals Analysis of TCLP Extract

ACC Environmental Consultants

Steve Jackson

7977 Capwell Dr., Suite 100

Oakland, CA 94621

Client ID: 1117

Report Number: M213734

Date Received: 07/23/19

Date Analyzed: 07/30/19

Date Printed: 07/30/19

First Reported: 07/30/19

Job ID / Site: 2062-163.00, 2892 Fairmont Drive, San Leandro, CA

Date(s) Collected:

FALI Job ID: 1117

Total Samples Submitted: 2

Total Samples Analyzed: 2

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
PB-01-01	30842684	Pb	1.9	mg/l	0.3	TCLP EPA 1311/7000B
Comment :	Sample particle size not fully reduced as stated in published method due to unusual sample contents.					
PB-02-01	30842685	Pb	1.0	mg/l	0.3	TCLP EPA 1311/7000B
Comment :	Sample particle size not fully reduced as stated in published method due to unusual sample contents.					

* The Reporting Limit represents the lowest amount of analyte that the laboratory can confidently detect in the sample, and is not a regulatory level. The Units for the Reporting Limit are the same as the Units for the Final Results.

Sophie Kuang, Laboratory Supervisor, Hayward Laboratory

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BULK SAMPLE CHAIN-OF-CUSTODY

Report to:	Steve Jackson	Email:	sjackson@accenv.com	Phone:	(510)512-8320
Project Name:	2892 Fairmont Drive, San Leandro, Ca.				
Project Address:	2892 Fairmont Drive, San Leandro, Ca.			Project Number:	2062-163.00
Collected by:	M.Massoud Navvab (CAC # 98-2531 Lead # 8555).			Date Collected:	07/23/19
Sample Analysis:	PLM	Lead	✓ STLC & TCLP	Stop at 1 st Positive Layer	Turnaround Time: 5 Days
Comments:	Waste characterization Samples <small>STLC = Soluble Threshold Limit Concentration. TCLP = Toxicity Characteristic Leaching Procedure.</small>				
Sample ID	Material <small>Size-Color-Pattern-Material-Post Description</small>	Material Location [Quantity] <small>Building or Floor: Area(s) - Component</small>	Sample Location <small>Area - Component</small>	Size	
PB-01-01	Interior plywood & Loose & peeling paint.	Guard Shed interior walls	Guard Shed interior walls	Bulk Sample	
PB-02-01	Dried Sludge	Building D, on the floor	Building D, on the floor	Bulk Sample	
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
No Sample					
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No Sample					
No Sample					
Released:	M.Massoud Navvab	Signature:	<i>M. Navvab</i>	Date:	07/23/19
Received:		Signature:		Date:	
Lab Info: ✓ Forensic Analytical Laboratories, Inc. (FALI): 3777 Depot Road # 409, Hayward, California 94545, (510) 887-8828 EMSL Analytical, Inc. (EMSL): 464 McCormick Street, San Leandro, California 94577, (510) 895-3675					

Contractor Submittals

NIKE SITE HAZARDOUS MATERIALS ABATEMENT AND
DEMOLITION SPECIFICATION
2982 FAIRMONT DRIVE, SAN LEANDRO

TABLE OF CONTENTS

1. Specification for Hazardous Materials Abatement and Demolition Work
2. Appendix A – Asbestos Abatement
3. Appendix B – Lead Hazard Control
4. Appendix C – Miscellaneous Hazardous Materials
5. Appendix D - Limited Asbestos and Lead Survey, Former Nike Missile Site,
2892 Fairmont Drive, San Leandro, CA, May 16, 2018 by Terracon
Consultants

SPECIFICATION FOR
HAZARDOUS MATERIALS ABATEMENT
AND DEMOLITION WORK

1. PROJECT LOCATION:

2892 Fairmont Drive, San Leandro, California (Site) (See attached Google Maps)

2. SCOPE OF WORK:

Contractor's scope of work for this project generally consists of work in in/on Buildings B, C, D, and the Guard Shack. Contractor's scope of work shall consist of the following:

- Removing and properly disposing and/or recycling all debris, objects, equipment, etc. from Buildings B, C, D, and the Guard Shack.
- Remove and dispose of all building materials containing detectable concentrations of asbestos as specified in Appendix A - Asbestos Abatement;
- Manage lead-containing materials and lead hazards as specified in Appendix B - Lead Hazard Control.
- Remove and dispose/recycle miscellaneous hazardous materials as specified in Appendix C - Miscellaneous Hazardous Materials.
- Completely demolish Guard Shack, Building C, Building D, metal portion of Building B, and dispose/recycle demolition debris. (Note: associated concrete foundations and floor slabs are to remain in place.)
- Remove and dispose of any remaining utilities within trenches of Building C and fill trenches with concrete or a combination of concrete and gravel as approved by the County.
- Demolish ceiling tiles and grid in cinder block portion of Building B

Contractor shall maintain required licenses and insurance, obtain necessary permits and approvals and supply all labor, supervision, materials, equipment, tools, services, and each and every item of expense necessary for successful performance and completion of project work. All work shall be performed in accordance with all applicable federal, state and local requirements and the requirements of this Specification. Any conflicts between applicable federal, state and local requirements and the requirements of this Specification shall be brought to the immediate attention of the County.

Contractor shall implement controls and procedures to protect the property, the environment and the health and safety of workers and the public. Controls and procedures shall be specified in a written project workplan (Workplan) prepared by the Contractor which includes a written site specific health and safety plan (HASp). Contractor shall document

that all onsite workers have read or received sufficient training and understand and will abide by the requirements of the Workplan and the HASP.

3. LICENSING AND CERTIFICATION:

- A. CONTRACTOR LICENSING: Contractor or a designated subcontractor must possess a valid State of California General Engineering "A" or General Building "B" license with Hazardous Substance Removal "HAZ" and C-22 Asbestos abatement license; a valid State of California Building Moving and Demolition "C-21" license; and any other required licenses and certifications.
- B. WORKER TRAINING AND CERTIFICATION: On-Site workers shall have all training and certifications as specified in Appendix A - Asbestos Abatement, Appendix B - Lead Hazard Control, Appendix C - Miscellaneous Hazardous Materials and as required by applicable local, state and federal rules, regulations and laws.

4. COUNTY'S CONSULTANT

The County's Consultant will provide independent, third-party consulting services on behalf of the County and is required to be on-site during removal and demolition activities and as otherwise specified herein. Services may include observing Contractor's work, environmental testing, and/or consulting with the County. It is not the responsibility of the County's Consultant to supervise the Contractor; nor to direct the Contractor's work effort; nor to assume the management of, or responsibility for, the Contractor's health and/or safety practices, nor its waste management, nor its regulatory compliance. At all times, the Contractor shall be solely responsible for the quality and execution of all phases and aspects of project work.

6. CONTRACTOR'S USE OF PREMISES

- A. Contractor may use the Site for its operations, storage, office facilities and parking as required for performance of the Work. If space at the Site is not sufficient for Contractor's operations, storage, office facilities, and parking. Contractor shall arrange and pay for any additional space needed by Contractor.
- B. Contractor shall not interfere with use of or access to adjacent properties.
- C. Contractor shall take all reasonable precautions to minimize noise as required by applicable laws.
- D. Contractor shall keep the Site neat and orderly so as not to be a nuisance for adjacent property owners and as required for Site safety.
- E. Contractor assumes full responsibility for Site security and for the protection and safeguarding of the Site and any materials, equipment, wastes, etc. stored thereon.
- F. No one other than those directly involved in the Work or specifically designated by the County shall be permitted on Site.

- G. Contractor must maintain the access road between Fairmont Drive and the project Site in good condition. Contractor is responsible for inspecting and documenting the condition of the road prior to the start of work and at the final walk through for the project. If the road has been damaged during the Project then Contractor will be responsible for repairs that are necessary to return the road to the same condition it was in prior to the start of work.

7. TEMPORARY FACILITIES AND UTILITIES

- A. ELECTRIC POWER AND WATER: Utilities in the buildings to be demolished will be disconnected by the County prior to the start of work. Contractor shall provide and pay for any electric power and water required for this project.
- B. SANITARY FACILITIES: Contractor shall provide and pay for any temporary sanitary facilities required for this project.
- C. TELEPHONE SERVICE: Contractor shall provide and pay for telephone service required for performance of the Work.
- D. FIRE PROTECTION: Contractor shall provide and maintain fire extinguishers and other equipment necessary for fire protection. Such equipment shall be designated for use for fire protection only and shall comply with all requirements of the California Fire, State Fire Marshall and/or its designee.

8. PROJECT MEETINGS

- A. Preconstruction Conference: Contractor shall attend a conference at the project site prior to the start of Work for the purpose of determining Contractor's access to and use of the site, reviewing administrative procedures, and such other items as may be pertinent.
- B. Progress Meetings: Contractor shall schedule and hold weekly progress meetings with County representatives, unless otherwise directed by the County. Meeting location, day/time and attendees to be determined during the preconstruction conference.
- C. Special Meetings: Special meetings may be requested by the County. Contractor, subcontractors, material suppliers and any other members of the project team may be required to attend.



Imagery ©2019 Google, Map data ©2019 Google 100 ft



San Leandro

Nike Site - Buildings B, C, and D



Imagery ©2019 Google, Map data ©2019 Google 20 ft

APPENDIX A

ASBESTOS ABATEMENT

PART 1 - GENERAL

1.1 SUMMARY

- 1.1.1 Scope of Work: The “Work” specified herein includes removal and disposal of all asbestos-containing construction materials (ACCMs) prior to demolition of Site structures. The Asbestos Abatement Contractor (Contractor) will supply all labor, supervision, materials, equipment, tools, services, insurance and each and every item of expense necessary to perform and complete the Work. Work must be performed as specified herein and in compliance with applicable federal, state and local regulations.

A limited asbestos and lead survey was performed by Terracon Consultants, Inc. (Terracon) of Emeryville, California. The report documenting Terracon’s findings (Limited Asbestos and Lead Survey, Former Nike Missile Site, 2892 Fairmont Drive, San Leandro, California, May 16, 2018) is presented in Appendix D. Based on Terracon’s survey report, the Contractor’s work includes the removal and disposal of ACCMs summarized as follows:

Guard Shack

- Approximately 5 square feet of roof patching/mastic.

Building B

- Approximately 1,024 square feet of floor tile and mastic throughout both sections of the building.
- Approximately 20 square feet of roof penetration mastic.

Building C

- Approximately 380 square feet of floor tile and mastic.
- Approximately 80 square feet of transite panels.
- Approximately 25 square feet of roof patching mastic.
- Approximately 100 square feet of roof flashing system.

Building D

- Approximately 1,572 square feet of drywall/joint compound ceiling systems (Note: Asbestos is in joint compound and much of the sheetrock has fallen due to water damage and age. In addition all of this material is covered in a drywall texturing material.)
- Approximately 240 square feet of drywall/joint compound wall systems in western part of building.
- Approximately 1,812 square feet of drywall texturing that is covering the drywall wall and ceiling systems mentioned above.
- Approximately 360 square feet of transite panels on the exterior of the building.
- Approximately 1,320 square feet of 9”x9” black floor tile and mastic.
- Approximately 252 square feet of 9”x9” red floor tile and mastic.
- Approximately 200 square feet of wooden wall paneling mastic.
- Approximately 25 square feet of roof patching mastic.

Quantities noted above are approximations only. It is the responsibility of the Contractor to field verify asbestos locations and quantities before submitting a bid. Contractor's use of information in Terracon's report is subject to the limitations contained in that report.

- 1.1.2 Project IH Consultant: The County's Industrial Hygiene Consultant (hereinafter referred to as the "Project IH Consultant") will provide independent, third-party industrial hygiene consulting services on behalf of the County. Such services may or may not include conducting on-site work observations, materials or environmental testing, and/or consulting with the County. It is not the responsibility of the Project IH Consultant to supervise the Contractor; nor to direct the Contractor's work effort; nor to assume the management of, or responsibility for, the Contractor's health and/or safety practices, nor its waste management, nor its regulatory compliance. At all times, the Contractor shall be solely responsible for the quality and execution of all phases and aspects of the Work.

1.2 SUBMITTALS

1.2.1 General:

- 1.2.1.1 In addition to any other contractual submittals required of the Contractor, the Contractor will provide to the County the submittals described in this Specification section. Submittals will be reviewed by both the County and the Project IH Consultant for acceptability. The Project IH Consultant will either recommend submittals to the County for acceptance, or will return them to the County as deficient, with notations for correction and re-submission. The Project IH Consultant does not have authority to "approve" submittals.
- 1.2.1.2 Documents submitted by the Contractor in an effort to comply with the requirements of this Specification section are to be separate and distinct from any other submittals provided to comply with other Specification sections. In attempting to satisfy the requirements of this Specification section, the Contractor must submit only those documents specifically requested to fulfill the specified requirements. Extraneous documentation will be rejected, but not returned.

1.2.2 Schedule and Format:

- 1.2.2.1 Delivery: Submittals listed in this section must be delivered to the County.
- 1.2.2.2 Quantity: Two (2) identical, legible copies of each submittal listed in this section shall be delivered in an organized fashion suitable to the County for review. One (1) copy will be conveyed by the County to the Project IH Consultant for review.
- 1.2.2.3 Work Commencement: No portion of the Work shall be commenced by the Contractor until the submittals are reviewed and accepted by the County.
- 1.2.2.4 Delays: Delays to the Work resulting from the submittal of deficient or illegible documentation, or from the untimely submittal of potentially acceptable documentation, shall be the sole responsibility of the Contractor. Except as otherwise granted by the County, no extensions will be made to the awarded contract schedule or budget to accommodate such delays.
- 1.2.2.5 Format: Submittals will be provided in 8-1/2" x 11" format with sections separated by numbered tabs indexed to a printed Table of Contents. Illegible submittals will be considered deficient and returned for correction.

1.2.2.6 Schedule: Submittals delivered to the County will observe and conform with the following timetable:

1.2.2.6.1 Pre-work Submittals – Not less than ten (10) business days prior to the Contractor’s mobilization onto the work site, the Contractor shall deliver legible copies of the specified documents. The Project IH Consultant will review submittals and return deficient submittals to the County within five (5) business days following their receipt by the Project IH Consultant. Deficient submittals will be corrected and resubmitted by the Contractor within five (5) business days of their return. Once accepted, the reviewed copy shall be returned to the Contractor, who shall maintain a copy of the accepted submittal at the work site.

1.2.2.6.2 Product Submittals – Not less than ten (10) business days prior to the date of intended use of the product on the work site.

1.2.2.6.3 Post-work Submittals – Except as otherwise specified herein, the Contractor shall, within twenty (20) business days following demobilization from the project site, submit 2 copies of the Post-work Submittals listed in this section. If the Project IH Consultant or the County determines that the Post-work Submittals are unacceptable, the Contractor will be required to correct the deficiencies and re-submit them for review.

1.2.3 Pre-Work Submittals:

1.2.3.1 Progress Schedule: Provide a proposed work schedule indicating the listed items.

1.2.3.1.1 Show the complete sequence of the abatement plan by activity and the sequencing of work within each building, on each floor, and for each regulated work area.

1.2.3.1.2 Show the dates for the beginning and completion of each major element (work area set-ups, gross removal, detail cleaning, preliminary visual inspections, final visual inspections, tear-down, etc.) of the abatement work, including substantial completion dates for each building, on each floor, and for each regulated work area. Update as necessary.

1.2.3.1.3 Provide anticipated manpower distribution per scheduled activity and regulated work area. Distinguish between trained full-time personnel and unskilled or temporary labor. Indicate whether or not any subcontracted labor will be utilized.

1.2.3.1.4 Provide anticipated number of shifts per day and days per week, as well as specific hours for each shift. Indicate any anticipated overtime, weekend work shifts, night shifts or holiday work shifts planned. Unless otherwise directed, plan to conduct all abatement activities during routine business hours (M-F, 7:00 a.m. to 5 p.m.).

1.2.3.1.5 At a minimum, the Contractor’s Progress Schedule is to be formulated on a three-week, “look ahead” basis and updated weekly.

1.2.3.1.6 All requests for deviations from, or changes to, the initially established daily work shift hours and/or the weekly work days shall be submitted in

writing to the County and the Project IH Consultant for approval not less than 3 business days prior to the anticipated implementation of said changes. This requirement will also apply to remobilizations following periods of inactivity by the Contractor. The Contractor shall not implement any work schedule changes without the prior expressed approval of the County. The Contractor shall be responsible for its Subcontractors' compliance with these requirements.

1.2.3.2 Notifications/Permits/Licenses:

- 1.2.3.2.1 Written Notice of Proposed Abatement activity (10-day prior notification) to the applicable air pollution control agency such as the Bay Area Air Quality Management District (BAAQMD). This project involves the removal of Regulated Asbestos-Containing Materials (RACM) in quantities that exceed notifiable thresholds. For floor tile and/or mastic removal operations involving the use of mechanized work methods, including motorized floor buffers, the 10-day prior notification will include appropriate notification of these planned activities, per BAAQMD advisory of June 2003.
- 1.2.3.2.2 Written Notice of Proposed Abatement activity to the Cal-OSHA Regional Office or any other agency having jurisdiction (24-Hour Temporary Worksite Notification).
- 1.2.3.2.3 Written proof that all required permits, licenses, and registrations have been applied for and received, or are pending approval. This shall include, but not necessarily be limited to, Contractor State Licensing Board (CSLB) Licenses, California Division of Occupational Safety and Health (DOSH) registrations, and/or as otherwise required by any federal, state, or local governments or regulatory agencies.

1.2.3.3 Worker Documentation:

- 1.2.3.3.1 Name and social security number of each employee to be engaged in asbestos abatement work.
- 1.2.3.3.2 Current valid documentation from a Cal/OSHA-approved training provider indicating the most recent asbestos abatement training course and training date that each person listed in Paragraph 1.2.3.3.1. (above) has attended. Legible photocopies of recent (within the preceding 12 months) training certification cards (Laborer's Trust Cards) will suffice, as long as both sides of the card are provided.
- 1.2.3.3.3 Name and social security number of the Asbestos Project Superintendent. Provide current valid documentation from a Cal/OSHA-approved training provider indicating the most recent asbestos abatement contractor/supervisor training course and training date that he/she has attended. Provide evidence indicating that he/she has a minimum of one year on-the-job experience as an Asbestos Project Superintendent.
- 1.2.3.3.4 Current valid documentation indicating each worker's most recent respiratory protection training and respirator fit testing. Respirator fit

testing documentation must contain all information required in 8 CCR §5144 (m)(2).

- 1.2.3.3.5 Current valid medical documentation indicating each worker's most recent asbestos medical examination. Each such medical document must be signed by a licensed physician to be acceptable. Illegible or incomplete photocopies, or preliminary examination reports, will be rejected as deficient.
- 1.2.3.3.6 Current valid medical documentation indicating each worker's medical fitness to wear a tight-fitting respirator and noting any medical limitations to such respirator usage. Each such medical determination must be signed by a licensed physician to be acceptable. Illegible or incomplete photocopies, or preliminary examination reports, will be rejected as deficient.
- 1.2.3.3.7 Submit a completed Certificate of Asbestos Worker's Acknowledgment form (Attachment A to this Specification section) for each worker engaged in asbestos-related work. Contractor's employees will not be allowed to engage in asbestos-related work prior to submitting a completed Certificate of Asbestos Worker's Acknowledgment form.
- 1.2.3.3.8 Submit a completed Certificate of Competent Person Acknowledgment form (Attachment B to this Specification section) for each employee engaged in asbestos-related supervisory work. Abatement Contractor's Competent Person will not be allowed to engage in asbestos-related supervisory work prior to submitting a completed Certificate of Certificate of Competent Person Acknowledgment form.
- 1.2.3.4 Subcontractors: Submit qualifications and 24-hour contact information for each subcontractor to be used. This shall include two (2) legible copies of federal, state, and/or local business or operating permits, as well as State and/or EPA identification numbers for the waste transporters and disposal facilities to be used.
- 1.2.3.5 Abatement Work Plan: Submit a detailed work plan indicating the practices and procedures proposed for use in complying with the requirements of this specification. Include in the plan schematic drawings with depictions of the locations and general configurations of all regulated work areas. Mark-ups of current project plans will suffice to satisfy this requirement. For each regulated work area, indicate the planned locations of personal decontamination units, equipment decontamination and waste load-out chambers, exhaust air filtration units, air exhaust locations, temporary utilities locations, work area view ports and any other elements or conditions of significance to the controlled completion of the Work (e.g., location of sanitary or storm drains that will require protection). The text of the Work Plan should address the sequencing of the asbestos work; the interface of any skilled trades involved in the performance of the Work; the methods to be used to assure the safety of site workers and visitors to the site; a disposal plan including the on-site location(s) of secured waste storage areas; and a detailed description of the methods to be employed to prevent environmental impairment of the work site and its surrounding area. Expand upon the use of methods of removal to prohibit visible emissions from within the work areas, and for the packaging and transport of removed asbestos waste or debris. The plan must be reviewed and accepted by the Project IH Consultant prior to the commencement of work.

- 1.2.3.6 Contingency Plan: Submit a contingency plan for emergencies including, but not necessarily limited to: fire, accidents, medical emergencies, power failures, differential air pressure (“negative air”) system failures, or any other event that may require modification of decontamination methods or work area isolation procedures. Include in the plan specific procedures for work area isolation and/or decontamination. **Note:** Nothing in this specification should be interpreted as instructions to impede the rapid and safe exiting from the work area(s), nor to impede the provision of adequate medical attention in the event of an emergency.
- Post:** In a room immediately adjacent to the Personnel Decontamination Unit(s), prominently display telephone numbers, locations of and driving instructions to, emergency services including, but not necessarily limited to: fire, ambulance, physician, hospital, police, power company, telephone company, and Contractor’s job-site Superintendent.
- 1.2.3.7 Field Logs: Submit a sample of Daily Field Logs, Work Area Entry/Exit Logs, etc. to be used during the asbestos abatement work.
- 1.2.3.8 Rental Equipment: If rental equipment is to be used in conjunction with this asbestos abatement work, a written notification is to be provided to the rental company informing the company that the rented equipment will be used on an asbestos abatement project. A copy of that written notification will be submitted to the Project IH Consultant. The notification must state how the rented equipment is to be used, how it will be decontaminated following its use, and include a space for the acknowledgement of the rental company that it has been advised of the rented equipment’s intended use. The Contractor will obtain written acknowledgment from an authorized representative of the rental company and will return an original signed copy of the acknowledgment to the Project IH Consultant as documentation of compliance with this requirement. In the absence of such rentals, the Contractor will submit a signed declaration on the Contractor’s letterhead and signed by an authorized representative of the Contractor stating that no rented equipment will be used by the Contractor on this project.
- 1.2.3.9 Material Safety Data Sheets: Submit current Material Safety Data Sheets for each potentially hazardous material to be used on the job-site. Refer to above Section 1.2.2.6.2 – Product Submittals.
- 1.2.3.10 California D.O.S.H. Registration: Submit evidence of the Contractor’s registration with the Division of Occupational Safety and Health (Cal-OSHA) to conduct asbestos-related construction work, in accordance with 8 CCR §341.6.
- 1.2.3.11 Waste Hauling Qualifications: Submit proof of hazardous waste transporter’s registration and the vehicle operator training. Submittals shall include, but not necessarily be limited to: business name, address (mailing address and physical location), and business telephone number of the company; primary contact name and emergency contact (24-hour) telephone number; documentation of current State and/or EPA authorization to operate; and insurance coverage.
- 1.2.3.12 Waste Disposal Facility Qualifications: Submit documentation of the California State and/or EPA-approved waste disposal facility chosen to receive shipments of asbestos-containing waste generated during this Project. Such information will include, but not necessarily be limited to: business name, address (mailing address and physical location), and business telephone number of the facility; primary contact name and

emergency contact (24-hour) telephone number; documentation of current State and/or EPA authorization to operate; operator's facility I. D. number; classification and/or types of waste(s) accepted; name, business address and telephone number of insurance provider; documentation of insurance type(s), coverage amounts, and any limitations on liability; and any regulatory agency information pertaining to known citations issued, notices of violations issued, corrective actions ordered, Records of Decisions rendered, or on-going environmental investigations or known liabilities.

1.2.4 POST-WORK SUBMITTALS:

1.2.4.1 General: In accordance with the requirements of the above Section 1.2.2.6.3 -Post-Work Submittals, submit the following documentation:

1.2.4.1.1 Copies of employee and visitor Work Area Entry/Exit Logs and Daily Field Logs/Reports.

1.2.4.1.2 Waste manifests, weight tickets, and landfill receipts.

1.2.4.1.3 Results of all Contractor's personal exposure air monitoring.

1.2.4.1.4 Manometer print-outs attached to 8 1/2" x 11" paper. Each page should indicate the dates, times, and work area containment to which the Manometer print-out applies. Print-out pages should be arranged in ascending chronological order.

1.2.4.1.5 Incident reports describing any events such as injuries, accidents, emergencies, or loss of differential air pressure and the actions taken in response.

1.3 QUALITY REQUIREMENTS

1.3.1 Reference Standards:

1.3.1.1 Regulations: Applicable regulations pertaining to this asbestos abatement work include, but are not necessarily limited to, the following:

1.3.1.1.1 Bay Area Air Quality Management District (BAAQMD) - Regulation 11 Hazardous Pollutants Rule 2, dated October 7, 1998 or more recent.

1.3.1.1.2 California Division of Occupational Safety and Health (Cal-OSHA) – Construction Safety Orders - Asbestos, Title 8, California Code of Regulations section 1529, et. seq. (8 CCR §1529).

1.3.1.1.3 California Health and Safety Code Section 25163, et. seq. (Transportation of Hazardous Waste).

1.3.1.1.4 Title 22, California Code of Regulations, Section 66261.24 et. seq. (Characteristics of Hazardous Waste – Toxicity).

1.3.1.1.5 Title 22, California Code of Regulations, Section 66268.7(a)(11).

1.3.1.1.6 Title 22, California Code of Regulations, Section 66268.114 et. seq. (Treatment Standard for Asbestos-Containing Waste).

- 1.3.1.1.7 California Labor Code sections 6501.5 (Employer Registration); and 6501.9 (Determining the Presence of Asbestos Prior to Contracting for Work).
- 1.3.1.1.8 California Safe Drinking Water and Toxic Enforcement Act of 1986 (Prop. 65).
- 1.3.1.1.9 Title 29, Code of Federal Regulations, Parts 1910 and 1926.1101.
- 1.3.1.1.10 Title 40, Code of Federal Regulations, Part 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAP). U.S. Environmental Protection Agency (U.S. EPA).
- 1.3.1.1.11 Title 49, Code of Federal Regulations, Part 172, U.S. Department of Transportation.
- 1.3.1.1.12 All other applicable Federal, State, and/or Local regulations, codes, and ordinances.
- 1.3.1.2 Standards: Applicable industry standards pertaining to asbestos abatement work include, but are not limited to, the following:
 - 1.3.1.2.1 American National Standard Institute (ANSI) Publications:
 - Z9.2 Fundamentals Governing The Design and Operation of Local Exhaust Systems; and
 - Z88.2 Practices for Respiratory Protection.
 - 1.3.1.2.2 U. S. Environmental Protection Agency (EPA): Publication No. 560/5-85-024 Guidance for Controlling Asbestos-Containing Materials in Buildings, June, 1985
 - 1.3.1.2.3 American Society for Testing Materials (ASTM) Publications:
 - E1368-05e1 Standard Practice for Visual Inspection of Asbestos Abatement Projects; and
 - E1542-93 (2004) Standard Terminology Relating to Occupational Health and Safety.
 - 1.3.1.2.4 National Institute of Occupational Safety and Health (NIOSH) Publications:
 - Manual of Analytical Methods:
 - Method 7400 Asbestos and Other Fibers by PCM; and
 - Method 7402 Asbestos Fibers by TEM.
 - 1.3.1.2.5 Underwriters Laboratories, Inc. (UL) Publication:
 - UL 586 High Efficiency, Particulate, Air Filter Units

- 1.3.1.3 **Applicability.** The most current version of each document will apply. Where conflicts among these regulations or standards exist, the more stringent requirement or interpretation will apply.
- 1.3.2 **Definitions:** In addition to definitions provided elsewhere in these specifications, the following definitions shall apply:
- 1.3.2.1 **Abatement:** The procedure to control fiber release from asbestos-containing building materials. Activities include removal, encapsulation, and enclosure.
- 1.3.2.2 **Adequately Wet:** A term defined in 40 CFR 61, Subpart M and EPA 340/1-90-019 that means to sufficiently mix or penetrate with liquid to prevent the release of particulates. If visible emissions are observed to be coming from ACM or ACCM, then that material has not been adequately wetted. The absence of visible emissions, however, is not sufficient evidence of being adequately wetted.
- 1.3.2.3 **Aggressive Clearance:** Final clearance air monitoring of a regulated asbestos work area which utilizes leaf blowers, fans, and similar tools to “aggressively” disturb and entrain any settled residual asbestos fibers for the purpose of capturing them during sampling.
- 1.3.2.4 **Air Lock:** A system for permitting ingress and egress with minimum air movement between a contaminated area and an uncontaminated area.
- 1.3.2.5 **Air Monitoring:** The process of measuring the fiber content of a specific volume of air in a stated period of time.
- 1.3.2.6 **Amended Water:** Water to which a surfactant has been added.
- 1.3.2.7 **Asbestos:** The general name given to a group of fibrous mineral forms including chrysotile, crocidolite, amosite, tremolite anthophyllite, and actinolite and any of these minerals that have been chemically treated or altered.
- 1.3.2.8 **Asbestos-Containing Hazardous Waste:** Any material that contains more than one percent asbestos and is in a friable, finely divided, or powdered state. Alternatively, any mixture of material(s) which contains (i.e. is contaminated with) equal to, or greater than, one percent friable asbestos is also asbestos-containing hazardous waste.
- 1.3.2.9 **Asbestos-Containing Material:** any material containing more than one percent (1%) asbestos.
- 1.3.2.10 **Asbestos-Containing Construction Material:** any manufactured construction material which contains more than one tenth of 1 percent (0.1%) asbestos by weight.
- 1.3.2.11 **Asbestos Abatement Contractor:** The contractor or subcontractor designated in the contract documents as being responsible to the County for the control or abatement of asbestos-containing or asbestos-contaminated materials.
- 1.3.2.12 **Asbestos Permissible Exposure Limit (PEL):** The Contractor will assure that no employee is exposed to an airborne concentration of asbestos of greater than 0.1 fibers per cubic centimeter (f/cc) as based on an 8-hour time-weighted average (TWA).

- 1.3.2.13 **Authorized Visitor:** The County or designated representative, the Project IH Consultant, the Project IH Consultant's inspector or representative, or any representative of a federal, state, county, city, or local agency having legal or regulatory jurisdiction over the project while acting in an official capacity. Any person whose name appears upon an approved authorized visitor's list.
- 1.3.2.14 **Background Monitoring:** See "Prevalent Level Monitoring."
- 1.3.2.15 **Class I Asbestos Work:** Activities involving the removal of thermal system insulation (TSI) and surfacing ACM and PACM. For the purposes of this specification, asbestos-containing resilient sheet flooring ("linoleum") will also be removed as "Class I Asbestos Work."
- 1.3.2.16 **Class II Asbestos Work:** Activities involving the removal of ACM which is not TSI or surfacing material. This includes, but is not limited to, the removal of asbestos-containing wallboard or joint compound, floor tile, roofing materials, sidings and construction mastics.
- 1.3.2.17 **Clean Room:** An uncontaminated area or room which is part of the worker decontamination enclosure with provisions for storage of worker's street clothes and protective equipment.
- 1.3.2.18 **Competent Person:** In addition to the definition in 29 CFR §1926.32 (f), one who is capable of identifying existing asbestos hazards in the workplace and selecting the appropriate control strategy for asbestos exposure, who has the authority to take prompt corrective measures to eliminate them, as specified in 29 CFR §1926.32 (f): in addition, for Class I and Class II work, one who is specially trained in a training course which meets the criteria of EPA's Model Accreditation Plan (40 CFR §763) for supervisor, or its equivalent and, for Class II and Class IV work, one who is trained in a manner consistent with EPA requirements for training of local education agency maintenance and custodial staff as set forth at 40 CFR §763.92 (a)(2).
- 1.3.2.19 **County:** The County of Alameda and its designated representative(s).
- 1.3.2.20 **Critical Barrier:** One or more layers of plastic sealed over an opening into a work area or any other similarly placed physical barrier sufficient to prevent airborne asbestos in a work area from migrating to an adjacent area.
- 1.3.2.21 **Curtained Doorway:** A device to allow ingress and egress from one room to another while permitting minimal air movement between the rooms, typically constructed by placing two overlapping sheets of plastic over an existing or temporarily framed doorway, securing the vertical edge of one sheet along one vertical side of the doorway, and securing the vertical edge of the other sheet along the opposite vertical side of the doorway.
- 1.3.2.22 **Decontamination Enclosure System:** A series of connected rooms, with curtained doorways between any two adjacent rooms, for the decontamination of workers and of materials and equipment. A decontamination enclosure system always contains at least one airlock.
- 1.3.2.23 **Differential Air Pressure Equipment:** A portable local exhaust fan or "unit" equipped with HEPA filtration and capable of maintaining a constant, negative air pressure

differential within the regulated work area by providing a low velocity air flow into contaminated areas from adjacent uncontaminated areas and exhausting filtered air outside the work area (preferably to the outdoor air).

- 1.3.2.24 **Disturbance:** Activities that disrupt the matrix of ACM/ACCM or PACM, crumble or pulverize ACM/ACCM or PACM, or generate visible debris from ACM/ACCM or PACM. This term includes activities that disrupt the matrix of ACM/ACCM or PACM, render ACM/ACCM or PACM friable, or generate visible debris. Disturbance includes cutting away small amounts of ACM/ACCM and PACM, no greater than the amount which can be contained in one standard sized glove bag or waste bag in order to access a building component. In no event shall the amount of ACM/ACCM or PACM so disturbed exceed that which can be contained in one glove bag or waste bag which shall not exceed 60 inches in length and width.
- 1.3.2.25 **DOP Testing:** The challenge testing of HEPA-filtered equipment, using appropriate aerosols. A 0.3 μm dioctylphthalate aerosol was formerly used in challenging the efficiency of HEPA-filtered equipment. Although dioctylphthalate compounds are now suspected human carcinogens, the phrase "DOP testing" is still current vernacular for the process of challenge testing the efficiency of HEPA-filtered equipment.
- 1.3.2.26 **Encapsulant:** A liquid material which can be applied to asbestos-containing materials and which prevents the possible release of asbestos fibers from the material either by creating a membrane over the surface (bridging encapsulant) or by penetrating into the material and binding its components together (penetrating encapsulant). A sealant.
- 1.3.2.27 **Encapsulation:** All herein specified procedures necessary to apply an encapsulant to asbestos-containing building materials to control the possible release of asbestos fibers into the air.
- 1.3.2.28 **Enclosure:** All herein specified procedures necessary to completely enclose asbestos-containing material behind airtight, impermeable, permanent barriers.
- 1.3.2.29 **Equipment Decontamination Enclosure:** That portion of a decontamination enclosure system designed for controlled transfer of materials and equipment, typically consisting of a washroom and a holding area.
- 1.3.2.30 **Equipment Room:** A contaminated area or room which is part of the worker decontamination enclosure with provisions for storage of contaminated clothing and equipment.
- 1.3.2.31 **Excursion Limit:** The Contractor will assure that no employee is exposed to an airborne concentration of asbestos of greater than 1.0 fiber per cubic centimeters (f/cc) as an average over a sampling period of thirty minutes.
- 1.3.2.32 **Fixed Object:** A unit of equipment or furniture in the work area which cannot be removed from the work area.
- 1.3.2.33 **Friable:** Material(s) that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. Material that has been rendered to a finely divided or powdered state will also be considered to be "friable."

- 1.3.2.34 **Glovebag:** Not more than a 60 x 60 inch impervious plastic bag-like enclosure affixed around an asbestos-containing material, with glove-like appendages through which material and tools may be handled.
- 1.3.2.35 **Glovebag Technique:** A method with limited applications for removing small amounts of friable asbestos-containing material from HVAC ducts, short pipe runs, valves, joints, elbows, and other non-planer surfaces in an otherwise non-enclosed work area. The glovebag assembly is a manufactured or pre-fabricated device consisting of a glovebag (typically constructed of 6-mil transparent regulate plastic), two inward projecting long sleeve rubber gloves, one inward projecting sleeve, an internal tool pouch, and an attached, labeled receptacle for asbestos waste. The glovebag is constructed and should be installed in such a manner that it will surround the ACCM or ACM to be removed and will contain all asbestos fibers released during the removal process. All workers who are permitted to use the glovebag technique must be trained, experienced, and skilled in this method. Limitations on, and requirements pertaining to glovebag work, as set forth in 8 CCR §1529 et. seq., will be observed and complied with during this Work. The number of contiguous glove-bags that may be used within a regulated work area will be at the discretion of the Project IH Consultant.
- 1.3.2.36 **Holding Area:** A chamber in the equipment decontamination enclosure located between the washroom and an uncontaminated area. The holding area comprises an airlock.
- 1.3.2.37 **HEPA Filter:** A High-Efficiency Particulate Air (HEPA) filter capable of trapping and retaining 99.97 percent of particles (asbestos fibers) greater than 0.3 micrometers in mass median aerodynamic equivalent diameter.
- 1.3.2.38 **HEPA Vacuum Equipment:** Vacuuming equipment manufactured with a HEPA filter system.
- 1.3.2.39 **Leak Tight:** Solids, liquids or dusts cannot escape or spill out.
- 1.3.2.40 **Log Book:** A notebook or other book containing essential project data and daily project information and a daily project diary. This book shall be kept up to date and on the project site at all times.
- 1.3.2.41 **Movable Object:** A unit of equipment or furniture in the work area which can be removed from the work area.
- 1.3.2.42 **MSDS:** Material Safety Data Sheet.
- 1.3.2.43 **Negative Initial Exposure Assessment:** A demonstration by the employer, which complies with the criteria in paragraph (f)(2)(C) of 8 CCR §1529, that employee exposure during an operation is expected to be consistently below the PEL and Excursion Limit.
- 1.3.2.44 **NIOSH:** National Institute of Occupational Safety and Health.
- 1.3.2.45 **Phase Contrast Microscopy (PCM):** NIOSH Method 7400 using “A” counting rules.
- 1.3.2.46 **Plasticize:** To cover floors and walls with plastic sheeting as herein specified.

- 1.3.2.47 **Presumed Asbestos Containing Material (PACM):** Thermal system insulation and surfacing material found in buildings constructed no later than 1980. The designation of a material as “PACM” may be rebutted pursuant to 8 CCR §1529 (k)(5).
- 1.3.2.48 **Prevalent Level Monitoring:** Air sampling conducted for the purposes of evaluating existing ambient airborne fiber concentrations prior to starting abatement activities.
- 1.3.2.49 **Regulated Area:** An area established by the employer to demarcate areas where Class I, II and/or III asbestos work is conducted, and/or any adjoining area where debris and waste from such asbestos work may accumulate; a work area within which airborne concentrations of asbestos exceed, or where there is a reasonable expectation they may exceed, the permissible exposure limit. Requirements for regulated areas are set out in paragraph (e) of 8 CCR §1529.
- 1.3.2.50 **Removal:** All herein specified procedures necessary to remove asbestos-containing materials from the designated areas in an appropriate manner and to dispose of these materials at an acceptable site.
- 1.3.2.51 **Shower Room:** A room between the clean room and the equipment room in the worker decontamination enclosure with hot and cold or warm running water and suitably arranged for complete showering during decontamination.
- 1.3.2.52 **Small-Scale, Short Duration Work:** For the purposes of this Specification, asbestos abatement work that meets the Cal-OSHA definition of Class III asbestos work and that can be completed in no more than 4 hours by no more than 2 workers.
- 1.3.2.53 **Surfacing Material:** Material that is sprayed, troweled-on or otherwise applied to surfaces (such as acoustical plaster on ceilings or walls and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, and other purposes).
- 1.3.2.54 **Surfactant:** A chemical wetting agent added to water to improve penetration.
- 1.3.2.55 **Thermal System Insulation (TSI):** ACM or ACCM applied to pipes, fittings, boilers, breaching, tanks, ducts or other structural components to prevent heat loss or gain.
- 1.3.2.56 **Time Weighted Average (TWA):** The TWA is an 8-hour time weighted average of the airborne concentration of fibers (longer than 5 micrometers) per cubic centimeter of air (f/cc) which represents the employee’s 8-hour workday exposure as determined by the formula:

$$\text{8-hour TWA} = \frac{(C_1T_1 + C_2T_2 + C_nT_n)}{480 \text{ minutes}}$$

where “C” is the contaminant concentration measured in units of f/cc and “T” the measurement time period in units of minutes.

- 1.3.2.57 **Transmission Electron Microscopy (TEM):** A method of analyzing air samples for asbestos fibers using a transmission electron microscope and associated instrumentation.

- 1.3.2.58 **Visible Emissions:** Any emissions containing particulate asbestos material that are visually detectable without the aid of instruments. This does not include condensed uncombined water vapor.
- 1.3.2.59 **Washroom:** A room between the work area and the holding area in the equipment decontamination enclosure system. The washroom comprises an airlock.
- 1.3.2.60 **Wet Cleaning:** The process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, or other cleaning tools which have been dampened with amended water, and disposing of these cleaning tools as asbestos-contaminated waste.
- 1.3.2.61 **Work Area:** Designated rooms, spaces, or areas of the project in which asbestos abatement actions are to be undertaken or which may become contaminated as a result of such abatement actions. A contained work area is a work area which has been sealed, plasticized, and equipped with a decontamination enclosure system. A non-contained work area is an isolated or controlled-access work area which has not been plasticized nor equipped with a decontamination enclosure system.
- 1.3.2.62 **Worker Decontamination Enclosure System:** That portion of a decontamination enclosure system designed for controlled passage of workers, and other personnel and authorized visitors, typically consisting of a clean room, a shower room, and an equipment room separated by air locks.

PART 2 - PRODUCTS

2.1 MATERIALS

- 2.1.1 Product Prohibitions: The following products or product constituents are prohibited from use during asbestos abatement activities:
 - 2.1.1.1 Any product for which a Material Safety Data Sheet is available from the manufacturer and has yet to be submitted.
 - 2.1.1.2 Any product for which a less hazardous substitute product is readily available, provided that the substitute product possesses similar performance characteristics.
 - 2.1.1.3 Any product containing any concentration of diethylene glycol dimethyl ether; ethylene glycol monoethyl ether; or ethylene glycol mono methyl ether (skin TLV 5 ppm; CAS 109-86-4). These constituents cause reproductive damage and blood cell damage.
 - 2.1.1.4 Any product containing any concentration of ethylene glycol (1,2 Ethanediol glycol; TLV = 50 ppm). This chemical causes kidney damage if ingested.
 - 2.1.1.5 Any product containing any concentration of formaldehyde, a suspect carcinogen.
 - 2.1.1.6 Any product containing any concentration of methylene chloride, a suspect carcinogen.
 - 2.1.1.7 Any product containing any concentration of n-hexane. This chemical causes peripheral nerve damage (potential ingredient in spray adhesive).

- 2.1.1.8 Any product containing any concentration of isocyanates. An allergic sensitizer, this group of chemicals typically has no warning properties (potential ingredient in spray foams and some epoxies).
- 2.1.1.9 Non-fire rated visquene and/or non-fire rated lumber are prohibited from use.
- 2.1.1.10 Solvents with a flash point <140° F are prohibited from use.
- 2.1.2 Equipment Prohibitions: The following equipment is prohibited from use during asbestos abatement activities:
 - 2.1.2.1 Fasteners: High velocity powder-actuated fasteners are prohibited from use without the expressed written permission of the County.
 - 2.1.2.2 Torches: Open flame torches are prohibited from use for asbestos abatement purposes.
 - 2.1.2.3 Compressed Air: Air compressors, leaf blowers or similar forced-air equipment is prohibited from use for asbestos abatement purposes.
 - 2.1.2.4 Lamps: Sodium or mercury vapor (metal halide) lamps are prohibited from use.
 - 2.1.2.5 Ladders: Wooden or metal ladders are prohibited from use.
 - 2.1.2.6 Engines: Internal combustion engines shall not be permitted for operation indoors without the expressed written permission of the County in consultation with the Project IH Consultant.
 - 2.1.2.7 Grounded Electrical Equipment: Electrical equipment manufactured with internal grounding or grounded wiring shall not be used if the grounding has been removed, tampered with, or otherwise altered.
 - 2.1.2.8 HEPA-Filtered Vacuum Cleaners Without Certification of Efficiency Challenge Testing: Vacuums without certification of on-site testing for efficiency (“DOP testing”) shall not be allowed for use outside of a negative differential pressure enclosure (“containment”).
- 2.1.3 Material Requirements:
 - 2.1.3.1 Sealants: Sealants used will have a flame spread, smoke and fuel contribution of zero, and will be ASTM and UL rated for 3 hours for standard method fire test for fire stop systems.
 - 2.1.3.2 Lock-down Encapsulants: Lock-down encapsulants used will be compatible with substrate to which they will be applied, as well as with adhesives or other finish materials which may be applied over such encapsulants.
 - 2.1.3.3 Visquene Sheeting: Visquene sheeting used will be in compliance with NFPA Standard 701 fire testing, with flame spread ≤ 5 and smoke development rating of ≤ 70 when tested by ASTM E-84. Minimal thickness will be 6 mil.

- 2.1.3.4 Spray Poly: Spray poly as a liquid must be non-flammable (no flash point), vapor free, and not noxious; when dry, poly must be Class A rated, with flame spread ≤ 20 , have a fuel contribution of zero, and smoke development of ≤ 110 by ASTM method E-84.
- 2.1.3.5 Waste Containers: Waste containers (bags, drums, bins, etc.) must be suitable for loading, temporary storage, transit, and unloading of asbestos waste without rupture, or otherwise causing asbestos exposure to persons nor releases to the atmosphere. Use of rigid primary containers (bins, boxes, drums, etc.) is preferred and recommended. Where rigid primary containers are used, they shall be lined with a secondary leak tight barrier of poly sheeting or poly bags of minimal thickness of 6 mil. All containers used for disposal of asbestos-containing waste shall be labeled in general accordance with applicable regulations, and in specific with the requirements of 8 CCR §1529(k)(8) and BAAQMD Regulation 11, Rule 2. See section 3.2.3.2 of this Specification section for additional details.
- 2.1.3.6 Adhesives: Adhesives, whether tape or aerosol liquid, shall be capable of securely bonding plastic to plastic, or plastic to substrate. The bonding strength and resulting seal of the material used must not be compromised by mist or water, encapsulating agent or any other product or process used in the regulated work area.
- 2.1.3.7 Warning Signs and Labels: Warning signs and labels will be used in compliance with applicable federal, state, and local regulations. Signs must be lettered in the language(s) necessary to communicate the specific hazard warning(s) to workers or visitors reasonably expected to be at the job site.
- 2.1.4 Equipment Requirements:
 - 2.1.4.1 General: It is the responsibility of the Contractor to utilize tools and equipment that have been thoroughly and adequately decontaminated prior to their delivery to this project site. All equipment brought onto this project work site will be subject to inspection by the County and/or the Project IH Consultant. Visible evidence of suspected equipment contamination will be sufficient to cause the equipment to be rejected from mobilization onto the project work site. All costs resulting from the need to decontaminate any part of the worksite contaminated by the Contractor's use of inadequately decontaminated equipment will be borne by the Contractor.
 - 2.1.4.2 Differential Air Pressure Equipment: Differential air pressure equipment (also known as "exhaust fan units" or "negative air machines") shall be equipped with HEPA filtration. All differential air pressure equipment will be in well-maintained condition and will comply with ANSI/AIHA Standard Z9.2 for performance. Differential air pressure equipment will arrive on-site with the intake and exhaust openings sealed. Each unit must be efficiency-challenged ("DOP tested") on-site, in the presence of the Project IH Consultant and prior to use, so as to ensure a minimum 99.97% filtering efficiency of aerosol particulates of 0.3 microns in size. DOP testing shall be performed by a professional third-party testing firm not otherwise financially affiliated with the Contractor. Each unit used on this project must have a certification label affixed to it attesting to its most recent successful testing. Upon arriving on-site, each unit must be visibly clean and free of apparent or suspected asbestos contamination, as judged by the Project IH Consultant. If, in the opinion of the Project IH Consultant, the differential air pressure units are judged to be in need of cleaning, maintenance, or in any other way fail to meet typical industry standards, the unit(s) may not be placed into operation on this project. If secured, negative air machines may be stacked, but

no more than two high without the prior approval of the Project IH Consultant, and in no event will negative air machines be allowed to be inverted for the purpose of stacking.

- 2.1.4.3 HEPA-filtered Vacuum Cleaners: HEPA-filtered vacuum cleaners will be in well-maintained condition, and must be visibly clean and free of apparent or suspected contamination, as judged by the Project IH Consultant. **Each unit must arrive on-site sealed and empty of any debris.** Each unit must be DOP tested on-site, within containment, before it can be used outside of a regulated work area. DOP testing will be performed by a professional third-party firm not otherwise financially affiliated with the Contractor. Each unit used on this project must have a certification label affixed to it attesting to its most recent successful testing. If, in the opinion of the Project IH Consultant, the HEPA-filtered vacuum cleaners are judged to be in need of cleaning, maintenance, or in any other way fail to meet typical industry standards, the vacuum cleaners may not be placed into operation on this project. Care will be exercised by the Contractor to prevent commingling of asbestos and lead waste. Separate vacuums will be used for each type of waste clean-up.
- 2.1.4.4 Lights and Electrical Cords: Electrical lights and equipment utilizing electrical power cords will be in well-maintained condition and will be visibly clean and free of apparent contamination, as judged by the Project IH Consultant. All lighting and electrical equipment must be water resistant. Work lighting must have protective covers over the light source. Grounded electrical equipment will be used with grounded electrical supply and outlets. Where such equipment will be used in the near vicinity of water, ground fault circuit interruption (GFCI) protection shall be used in the wiring circuit at the first feasible point closest to the source of power.
- 2.1.4.5 Personnel Decontamination Facilities: At a minimum, a 3-chamber personnel decontamination (decon) unit with functioning shower will be constructed and used whenever Class I work is being conducted. A decon unit with shower will be constructed contiguous with each Class I regulated work area. Use of a remote shower for Class I work may be allowed where a contiguous shower is infeasible, as judged by the Project IH Consultant. A curtained doorway (see Section 1.3 C above) will be constructed to separate individual chambers within a personnel decon unit, as well as at ingress and egress points. The decon units shall be constructed in a manner so as to be free of physical hazards (e.g., jagged metal or exposed wood surfaces). **To the extent feasible, a personnel decon unit must not be used for waste load-out.**
- 2.1.4.6 Water Filtration Equipment: Water will be collected from decontamination unit showers and from general asbestos abatement activities and must be filtered prior to discharge. Water will be filtered through a system capable of trapping particles 1 micron and larger in size, intended to remove asbestos fibers. Filtered water may be discharged into a sanitary sewer system, if the Contractor can satisfactorily demonstrate that it is acceptable to the local wastewater treatment facility to do so. The Contractor will bear the responsibility to investigate discharge requirements and to obtain any necessary discharge permits prior to the start of work. To the extent feasible, water should be reclaimed and used on-site for application in wet method work practices prior to its discharge.
- 2.1.4.7 Fire Extinguishers: Fire extinguishers, rated not less than 2A or as specified by more stringent regulations, will be required in the regulated work area(s). The minimum allowable number of fire extinguishers in any individual work area will be one in the regulated work area and one in the clean area.

- 2.1.4.8 Smoke Detectors: The Contractor will exercise due caution to not engage in activities that will inhibit the proper functioning of operable smoke detectors during the Work. The Contractor will take steps to preserve and protect any operable smoke detectors from damage during the Work. The Contractor must coordinate in advance with the local fire authority and the County prior to proceeding with any work activities that may require the disabling of an installed fire suppression system or a smoke detector. The Contractor will designate a person or persons to the responsibility of "Fire Watch" for the duration of time that an installed fire suppression system or a smoke detector(s) is required to be disabled.
- 2.1.4.9 Manometers: Use of data-logging manometers to record differential air pressure measurements within all regulated work areas is required on this project, irrespective of the Cal/OSHA Class of asbestos work being undertaken. A separate manometer shall be used to document diminished air pressure differential within each regulated work area. Exceptions will not be allowed due to concerns for equipment security. It is the Contractor's responsibility to provide and secure all equipment for the duration of this project. Manometers used to monitor air pressure within a regulated work area shall have been calibrated to the manufacturer's specifications within the previous 12 months. Manometers shall have real-time digital read-out; an audible alarm; a hardcopy record (tape or circular disk) and be capable of continuous data logging and printing out a data record. The data collected will begin at the time of the initial establishment of a diminished air pressure differential within a regulated work area and continue until acceptable analytical results of final air clearance testing results for that work area are received and conveyed to the Contractor.

PART 3 - EXECUTION

3.1 PREPARATION

- 3.1.1 Examination of Conditions: The Contractor must carefully examine the work site before beginning work and report any previously undisclosed or special conditions to the County. Except as may be otherwise stipulated elsewhere in the Contract Documents, starting the Work shall be interpreted as implied acceptance of site conditions as they exist.
- 3.1.2 Responsibility for Work: By commencing the Work, the Contractor acknowledges and agrees that he has sole and primary responsibility and obligation to the County to make inspections of his own work at all stages of the Work. This includes acknowledging and agreeing that he has sole responsibility to supervise or superintend the performance of the Work, and that said work will be in strict adherence to, and in compliance with, all applicable methods, materials, regulations, and required standards whether or not specified herein. The Contractor is responsible for site security upon starting the project. This responsibility extends 24 hours per day until project completion and final demobilization.
- 3.1.3 Coordination Of Work: The Contractor is responsible to coordinate all scheduling, phasing, and completion of asbestos abatement work with the County and all other employers working on the job site during the abatement activities. This includes the responsibility to make notifications or communications of hazards to other trades or employers, as required by regulation.
- 3.1.4 Measurements and Quantities: The Contractor is responsible to field verify all measurements, dimensions and/or quantities before the start of work. Discrepancies between plan and field dimensions or quantities shall be reported to the County as soon as discovered.

- 3.1.5 Job Site Postings: Prior to commencing any preparation of the work area(s) for asbestos removal operations, the Contractor will post all required documents, warning signs, and erect any physical barriers in order that the work area(s) may be secured. Prior to the commencement of any work, the Contractor will post bilingual or multi-lingual (as appropriate) warning signage in and around the work site in compliance with applicable regulations.
- 3.1.6 Pre-Work Conference: Prior to the start of any work, the Contractor will meet at the project site with the Project IH Consultant, the County, and other entities involved in, or associated with, the asbestos abatement work. This will be an organizational meeting to review responsibilities and personnel assignments; to identify any special needs or conditions pertaining to the Work or its completion; to identify the work area containment(s) and decontamination areas; and to coordinate temporary facilities including power, light, water, waste storage, etc.
- 3.1.7 Work Area Preparation:
- 3.1.7.1 Work Area Designation: Each regulated work area will be designated by the Contractor and discussed with the Project IH Consultant prior to its preparation. At a minimum, discussion topics will include ingress and egress points, work area configurations, containment methods, location of viewing ports, and installation of decontamination system enclosures. This communication may be accomplished at the Pre-Work Conference.
- 3.1.7.2 Electrical Lock-out: The Contractor, in coordination with the County, is responsible for the shutdown and disconnection of all electrical power within the work area. For the purposes of this Specification section, the work area is defined as including all wall, floor and/or ceiling cavities which will be opened as a result of the removal of wall, floor or ceiling materials. The Contractor will arrange for temporary power and lighting, and will ensure safe installation of temporary power sources and equipment per applicable electrical code requirements. The Contractor should notify the County in writing before disconnecting any power or communication lines that may service the subject buildings or adjacent buildings.
- 3.1.7.3 HVAC Isolation: The Contractor is required to shut down and isolate mechanical (heating, cooling, and ventilating) air systems to prevent contamination or fiber dispersal to other areas of the building. During the Work, HVAC vents and any other airway openings into and out of the Work Area will be sealed with barriers consisting of a minimum 2 layers of 6-mil poly sheeting and duct tape ("critical barriers"). In the event of any containment breaches, filters in the HVAC system(s) will be removed and disposed of as asbestos-contaminated waste.
- 3.1.7.4 Work Area Containment: Each regulated work area will be regulated and isolated ("contained") from all building areas not a part of the Work. All critical openings including, but not limited to, doorways, windows, tunnels, ducts, grills, diffusers, or openings through which ducting, piping or conduit passes are to be sealed securely with duct tape, spray adhesives, plastic sheeting or by other means, as necessary, to prohibit the passage of air out of the regulated work area. Any fixed objects to remain within the proposed work area will be cleaned using HEPA vacuum equipment and/or wet cleaning methods as appropriate, and completely enclosed with plastic sheeting. The plastic sheeting shall be, at a minimum, 6-mil fire-rated poly. Once fully constructed, the Contractor will inspect the containment for gaps, breaches, tears, leaks, holes or other deficiencies. The Contractor will conduct a similar inspection not less than once at the start of each work shift, however, the Contractor will be

responsible to ensure the integrity of the containment(s) at all times. Containment deficiencies shall be corrected immediately and with utmost priority upon discovery.

- 3.1.7.5 Decontamination Facilities: At a minimum, a 3-chamber personnel decontamination (decon) unit with functioning shower will be constructed and used whenever Class I work is being conducted. Cover the floor under the decontamination units, hoses, and equipment with at least one layer of 6-mil poly. Securely affix the poly sheeting to the floor. A personnel decon unit with shower will be constructed contiguous with each Class I regulated work area. Use of a remote shower for Class I work may be allowed where a contiguous shower is infeasible, as judged by the Project IH Consultant. A curtained doorway (see Section 1.3.2 above) will be constructed to separate individual chambers within a personal decon unit, as well as at ingress and egress points. The decon units shall be constructed in a manner so as to be free of physical hazards (e.g., jagged metal or exposed wood surfaces). Other alternate decontamination facilities may be used for compliance with Class II asbestos work or asbestos roofing removal work. **To the extent feasible, a personnel decon unit must not be used for waste load-out.**
- 3.1.7.6 Movable and Loose Items: Movable and loose items located within the work area(s) and not removed by the County are to be cleaned using HEPA-filtered vacuum equipment and/or wet cleaning methods, as appropriate, and will be removed from the work area to a temporary location designated by the County. The items will be received by and protected from future damage or loss by the County.
- 3.1.7.7 Pre-Cleaning: The Contractor will clean each work area prior to commencing the construction of a regulated work area containment. Such “pre-cleaning” will be by means of HEPA-filtered vacuum equipment and/or wet cleaning methods, as appropriate. The Contractor will use cleaning methods that minimize dust generation. Prohibited methods include shoveling, dry sweeping, use of forced or compressed air, or vacuuming with equipment not equipped with HEPA filtration. Workers engaged in “precleaning” activities are required to use appropriate personal protective equipment, including respiratory protection.
- 3.1.7.8 OSHA Class I Work Area Isolation: For Work Areas within which OSHA Class I asbestos work is to be conducted (removal of thermal system insulation [TSI] or surfacing material), the Contractor will erect a full, diminished air pressure enclosure. In addition to sealing critical openings, a minimum of one layer (additional layers may be required based on the localized conditions) of fire-rated 6-mil plastic sheeting will be installed on the walls, floors, and ceilings (as appropriate for the location and/or type of material[s] being removed). Exceptions to this may apply to the removal of TSI by means of glovebag techniques. In the case of TSI removal using glovebags, full-room (“secondary containment”) or partial-room (“mini-enclosure”) containment structures may, at the Project IH Consultant’s discretion, be additionally required. Floor layers shall be applied making sure that plastic is turned-up at the wall at least 16 inches and sealed to wall layers. Wall layers shall be sealed by overlapping the turned-up floor plastic a minimum of 12 inches. All joints and seams for each layer shall be glued and taped securely in a manner so as to prohibit water or air movement through the attached sheetings.
- 3.1.7.9 “Wrap and Cut” Removal of TSI: For Work Areas within which OSHA Class I asbestos work consisting primarily of TSI (piping insulation) removal is to be conducted by means of “Wrap and Cut” method, the Contractor will prepare the Work Area in full

compliance with the requirements of BAAQMD Regulation 11, Rule 2, and the requirements of Cal-OSHA 8 CCR §1529 (g) for conducting Class I asbestos work. Removal of asbestos-containing TSI for the purposes of accessing the piping to facilitate cutting the pipe will be done by first removing a portion of the TSI by glovebag method and sealing the remaining cut ends of asbestos-containing materials. Once the uninsulated pipe is exposed, the remaining insulated section to be removed will be wrapped in a minimum of two layers of 6-mil poly before being removed from the work area. For the purposes of this Work, “Wrap and Cut” removal of TSI will meet the regulatory definitions of “removal” and “removing” set forth in Cal-OSHA 8 CCR §1529 et. seq. and BAAQMD Regulation 11, Rule 2, respectively. The Contractor will seek and obtain the approval of the County prior to implementing “Wrap and Cut” activities.

- 3.1.7.10 OSHA Class II Work Area Isolation: For Work Areas within which OSHA Class II asbestos work is to be conducted, the Contractor will prepare the Work Area in accordance with the regulatory requirements of Cal-OSHA 8 CCR §1529 et. seq. and BAAQMD Regulation 11, Rule 2. In addition, a diminished air pressure enclosure, as documented by manometric measurements (see Section 2.1 D. 9. above) is required for all OSHA Class II Work. OSHA Class I Work Area isolation controls may be used for Class II work.
- 3.1.7.11 Localized Limited Work Area Isolation: For Work Areas where small-scale, short duration ACCM or ACM removal work will occur, the Contractor may, with the approval of the Project IH Consultant, use Localized Limited Work Area Isolation (“mini-containment”) methods. For the purposes of this Specification, the phrase “small-scale, short duration ACCM or ACM removal work” shall generally apply to that ACCM or ACM removal work which can be completed by no more than two (2) workers in no more than four (4) hours; and which generates no more ACCM or ACM waste than can be contained in one (1) standard-sized (60”) waste bag. At a minimum, such a Work Area shall be fully enclosed with one layer of 6-mil plastic; critical barriers shall be sealed; the mini-containment shall have a diminished interior pressure differential, and a curtained doorway for ingress/egress use. Additional enclosure measures may be required at the discretion of the Project IH Consultant. Localized Limited Work Area containments must be constructed so as to comply with all regulatory requirements including, but not necessarily limited to, BAAQMD and Cal-OSHA.
- 3.1.7.12 Substrate Removal: In certain locations, asbestos-containing materials to be removed may have been identified as being present on wooden or other substrates that will also be subject to building demolition (e.g., adhesive on wallboard). At the Contractor’s discretion, and with the concurrence of the County, such materials may be removed by means of removing the substrate material to which the ACM or ACCM is adhered. As a priority, consideration must be given to the use of methods that will minimize the weight or volume of waste generated by the use of this removal method. This method of removal should not be employed in locations where doing so will result in the creation of an imminent safety hazard.
- 3.1.7.13 Work Area Obscurity: The Contractor will endeavor to block or obscure the view of the public into the asbestos abatement work areas, but retain appropriate view portals in compliance with BAAQMD.

- 3.1.7.14 Adjacent Areas: Building areas immediately adjacent to regulated asbestos removal areas, such as corridors or hallways which are not themselves subject to asbestos material removal, but are necessary routes to and from regulated work areas, must be protected by the Contractor to prevent damage and/or contamination. Openings from these areas into areas where asbestos material removal activities will be conducted will have curtained doorways to further minimize air passage into non-regulated areas. The Contractor will also be responsible to make all required notifications to trades or other building occupants in areas adjacent to regulated abatement work areas.
- 3.1.7.15 Emergency Exits: The Contractor shall establish emergency and fire exits from the Work Areas, or establish alternative exits satisfactory to the County and to local emergency authorities or other applicable agencies.

All exits leading out of regulated work areas shall be marked in bold lettering "EXIT" or "Emergency Exit." Exit markings shall be in the primary language(s) appropriate to communicate with the workers present in the work area.

- 3.1.7.16 Work Area Communications: The Contractor will be responsible for establishing and maintaining clear communications between the personnel in the work area(s) and those stationed outside, such that those communications can be maintained without need for workers to perform an exit from the work area that would require decontamination.
- 3.1.7.17 Work Area Viewing Windows: The Contractor will provide and construct observation windows into all regulated work area containments. The viewing windows will be of a visually transparent material of approximately 18”(H) x 24”(W) in size and/or will be constructed and maintained so as to allow unobstructed observation of the entire work area from outside the containment.
- 3.1.7.18 Differential Air Pressure: Prior to the start of asbestos removal work, the Contractor will install HEPA-filtered differential air pressure equipment (also known as “exhaust fan units” or “negative air machines”), as specified herein, to maintain a diminished air pressure differential within the Work Area. These exhaust fan units will remain in place within a regulated Work Area throughout the abatement and decontamination phases of the Work until the required visual and/or clearance air testing has been satisfactorily achieved. A minimum pressure differential of -0.03 inches of water column (-0.03” w.c.), with respect to the air pressure of the area outside a Work Area, will be established and must be maintained at all times within all regulated Work Areas. The Contractor shall have sufficient auxiliary units on-site and/or in place to maintain this requirement throughout the Work. Air exhausted from this equipment shall be exhausted to the outdoors and, to the extent feasible, away from occupied areas around the building. Documentation of satisfactory differential air pressure shall require the use of a manometer, as specified herein. If, in the opinion of the Project IH Consultant, the differential air pressure units are judged to be in need of maintenance or in any other way fail to meet typical industry standards, the units shall not be placed into operation on this project.
- 3.1.7.19 Pre-Abatement Work Area Inspections: Prior to the start of asbestos removal work, the Contractor, accompanied by the Project IH Consultant, will conduct a detailed inspection of all equipment and Work Area isolation preparations to assure that appropriate engineering controls are in place and are functioning sufficiently to contain asbestos fibers to within the Work Area. The concurrence of the Project IH Consultant will be required to determine that a Work Area has undergone adequate preparation to

proceed with asbestos removal work. A Pre-Abatement Work Area inspection will be conducted for each regulated Work Area and each individual inspection must be documented in writing. Such documentation will be signed by the individual(s) conducting the inspection. A copy of each such documentation will be obtained by the Project IH Consultant for conveyance to the County.

3.2 ASBESTOS REMOVAL

3.2.1 All materials with detectable concentrations of asbestos are to be removed from the building. The types of materials known to be present are summarized in Section 1.1.1 of this document.

3.2.2 Work Practices:

3.2.2.1 At all times, the Contractor will employ work practices intended to maintain an orderly and safe work place. This will include, but not be limited to: pre-cleaning the work area; adequately wetting ACCM or ACM prior to its disturbance and during its removal; prompt clean-up of ACCM or ACM waste; use of HEPA-filtered vacuums and exhaust fan units; and employing all feasible engineering controls necessary to prevent elevated airborne asbestos concentrations within and outside of the Work Area(s).

The Project IH Consultant may collect air samples during the project to document airborne fiber levels inside the Work Area(s) and in locations outside the Work Area(s). The Contractor will be required to take immediate corrective action if perimeter samples exceed 0.01 fibers/cubic centimeter (f/cc) by PCM analysis, are overloaded, or exceed 70 structures/square millimeter (s/mm²) by Transmission Electron Microscopy (TEM).

3.2.2.2 OSHA Class I Asbestos Work: Materials designated for removal as OSHA Class I Asbestos Work will be removed in full compliance with the Class I work practices (i.e., Methods of Compliance) prescribed in Cal-OSHA's Construction Safety Orders for Asbestos (8 CCR §1529, et. seq.). All ACM or ACCM designated for removal as Class I Asbestos Work will likewise be removed in full compliance with the BAAQMD's Regulation 11, Rule 2. Class I Asbestos Work may not commence until the work area(s) is/are prepared in accordance with section 3.1.7.8. (or, in the case of TSI removal by "Wrap and Cut" method, 3.1.7.9.) of this Specification section.

3.2.2.3 OSHA Class II Asbestos Work: Floor tiles, mastics, and other materials designated for removal as OSHA Class II Asbestos Work will, at a minimum, be removed in full compliance with the Class II work practices (i.e., Methods of Compliance) prescribed in Cal-OSHA's Construction Safety Orders for Asbestos (8 CCR §1529, et. seq.). All ACM or ACCM designated for removal as Class II Asbestos Work will likewise be removed in full compliance with the BAAQMD's Regulation 11, Rule 2. Class II materials should, to the extent feasible, be removed with hand tools, so that they might remain substantially intact. Class II Asbestos Work may not commence until the work area(s) is/are prepared in accordance with section 3.1.7.10. At the discretion of the Project IH Consultant, use of mechanical or motorized removal methods may be permitted, provided the proposed method(s) is/are not prohibited under Cal-OSHA or BAAQMD work practices. Class I work practices may be utilized to perform Class II work. **Floor tile and/or floor tile mastic removal operations involving the use of mechanized work methods, including motorized floor buffers, must be conducted utilizing OSHA Class I Work Area Isolation methods and engineering controls as**

described in section 3.1.7.8 of this Specification section. This includes preparing the Work Area(s) in accordance with BAAQMD requirements for the removal of RACM. ACM shall be wetted prior to and during its removal, handling, and waste disposal. Low-odor, solvent-based mastic removers may be used to remove ACM mastics, provided the product(s) meets the requirements of Section 2.1 – MATERIALS of this Specification, and provided the waste generated by their use is managed in accordance with applicable state and federal regulations.

- 3.2.2.4 Work Area Regulation: All asbestos removal Work Areas shall be regulated to prevent unauthorized entry. Isolation methods shall include, but not necessarily be limited to: the use of barrier tape (yellow “Caution” and/or OSHA’s “Danger Asbestos”) and OSHA’s “Danger Asbestos” sign(s). The Contractor shall maintain a daily Work Area entry/exit log and require all persons entering the Work Area to sign in and out. The Contractor will bear sole responsibility for controlling entry into the Work Area(s).

3.2.3 Work Area Decontamination

- 3.2.3.1 Initial Cleaning: Clean-up and containerization of ACCM or ACM waste will be an on-going activity throughout the Work. ACCM or ACM gross debris must not be allowed to accumulate within the Work Area for subsequent clean-up. ACM must be wetted and kept wet throughout the removal and clean-up work. All uncontained ACM waste must, at a minimum, be bagged and sealed in leak tight containers by the end of each day’s work shift. Containerized waste may be stored within the Work Area during the work, but must be removed from the Work Area for storage in a secured location on a periodic basis. All containerized waste must be removed from the regulated Work Area prior to conducting visual inspections. In no event may the accumulation of containerized waste within the Work Area be allowed to impede the work progress or compromise work site safety.
- 3.2.3.2 Containerization of Waste: Unless otherwise authorized, ACCM or ACM waste will be containerized in rigid primary waste containers (boxes, drums, bins, etc.) suitable for loading, temporary storage, transit, and unloading of asbestos waste without rupture, or otherwise causing exposure to persons or releases to the atmosphere. Rigid primary containers must be lined with a leak tight barrier of poly sheeting or poly bags of minimum thickness of 6 mil. Waste containerized in bags will be double-bagged, evacuated of air, “goose-necked” and sealed with duct tape. All containers used for disposal of asbestos-containing waste must be labeled in general accordance with applicable regulations, including the requirements of 8 CCR 1529 (k) (8) and BAAQMD Regulation 11, Rule 2.
- 3.2.3.3 Detail Cleaning: Following gross removal of ACM or ACCM, any remaining substrate surface is to be detail cleaned using a combination of hand tools (scrapers, wire brushes, etc.), wet-wiping, and HEPA vacuuming. The substrate and containment will be considered to be adequately cleaned when no visible and no three-dimensional remnant of the ACM or ACCM can be seen or felt. This determination will be made by the Project IH Consultant on a case-by-case basis. In no event may encapsulation of residual ACM or ACCM be used in lieu of detail cleaning. Complete removal of an asbestos-impregnated porous substrate is an acceptable method of removal, so long as doing so does not introduce additional hazards into the Work Area, and with the additional requirement that the entire removed material be treated for disposal purposes as ACM or ACCM. See section 3.1.7.12. of this Specification section for additional requirements.

- 3.2.3.4 Waste Load Out: Prior to the removal of containerized waste from the Work Area, each container is to be wet-wiped to remove any residual asbestos contamination. Double-bagging of waste must be completed within the regulated Work Area and the exterior of each bag or container must be individually wet-wiped prior to removal from the Work Area. Waste will be loaded out of the Work Area through the equipment decontamination (“waste load out”) chamber and not through the personal decon. Once outside of the Work Area, the waste will be transported in rigid movable bins, wheelbarrows or comparable directly to a secured waste storage location.
- 3.2.3.5 Post-Abatement Work Area Inspections: Subsequent to the completion of the cleaning phases and waste load-out, the Contractor’s Supervisor, accompanied by the Project IH Consultant, will conduct a detailed visual inspection of the Work Area to assure that the identified asbestos has been removed and that the Work Area has been adequately cleaned. The concurrence of the Project IH Consultant will be required to determine that a Work Area has undergone adequate cleaning. This Post-Abatement Work Area inspection will be conducted for each regulated Work Area and each individual inspection must be documented in writing. Such documentation will be signed by the individuals conducting the inspection(s). A copy of each such documentation will be obtained by the Project IH Consultant for conveyance to the County. Prior to conducting a Post-Abatement Work Area inspection, the Contractor will remove and replace the primary filter (“pre-filter”) on each differential air pressure unit (“negative air machine”). All non-essential equipment is to be decontaminated, as described herein, and removed from the Work Area prior to commencing the Post-Abatement Work Area Inspection.
- 3.2.3.6 Equipment Decontamination: Prior to removal from a Work Area, the Contractor will decontaminate all tools and equipment. Decontamination will include, but not be limited to: wet-wiping, HEPA-vacuuming, and containerizing tools into subsequently decontaminated containers. Prior to removal from the Work Area, HEPA-filtered vacuum cleaners will be emptied of debris, wet-wiped and wrapped, bagged or otherwise containerized for transport from the Work Area. Likewise, differential air pressure equipment is to be sealed with poly sheeting and tape, and externally decontaminated before removal from the Work Area. All equipment will be subject to inspection by the Project IH Consultant prior to its demobilization from a regulated work area.
- 3.2.3.7 Encapsulation: Upon successful compliance with the requirements for Post-Abatement Work Area Inspection, and unless otherwise specified, the Contractor shall apply a “lock-down” encapsulant to all surfaces within the contained Work Area. The encapsulant must be compatible with the existing surfaces. Following application of the encapsulant, a sufficient amount of time must pass to allow for the encapsulant to dry. The Contractor should plan, at a minimum, to allow for an extended (preferably overnight) drying period. In all instances, the decision as to whether an adequate drying period has elapsed will be at the discretion of the Project IH Consultant.
- 3.2.3.8 Poly Removal: Once satisfactory Post-Abatement Work Area Inspections have been documented and after any applied encapsulant has been allowed to dry, the Contractor will remove the top layer of plastic on the walls, floors, and/or ceilings (as appropriate). The inner plastic layer (if present) and primary isolation barriers (i.e. “critical barriers”) on vents, grilles, diffusers, etc., are to remain in place for the clearance air sampling. Care should be taken to avoid pulling down any remaining layer(s) of plastic sheeting. In Work Areas where a single layer of plastic has been used on the walls, floors, and

ceilings (where applicable), that plastic layer shall be removed and critical barriers are to remain in place until air clearance sampling is completed and satisfactory air clearance criteria have been met. No alternative approaches are to be implemented without the prior agreement of the Project IH Consultant. The Contractor will containerize removed plastic and any remaining debris, decontaminate the containers, and dispose of as ACM-contaminated waste. All other isolation engineering controls including decontamination facilities are to remain in place until the specified air clearance testing criteria have been met. **Removal of plastic layers and isolation engineering controls (“teardown”) may not occur without the knowledge and consent of the Project IH Consultant.**

3.2.4 Personal Protection

- 3.2.4.1 General: The Contractor is solely responsible for the safety, efficiency, and adequacy of his work, workers, equipment and methods, and for any damages which may result from their inappropriate actions, practices, construction, maintenance, or operations. The Contractor will erect and maintain at all times, as required by the condition and progress of the Work, proper safeguards for the protection of the workers and the public, including the posting of appropriate and applicable warning signage on the site.
- 3.2.4.2 Competent Person: The Contractor will designate a responsible member of its organization to be present on the work site, whose duty shall be the detection, recognition, and prevention of accidents and potential accidents. The designated individual will assume and fulfill the duties of the Competent Person, as defined in 8 CCR §1529 et. seq. In the absence of notice to the contrary, provided in writing to the Project IH Consultant, this person will be the on-site Supervisor or Foreman of the Asbestos Abatement Contractor.
- 3.2.4.3 Toxic Exposure Responsibility: To the extent allowable by law, the Contractor assumes all responsibility for any toxic exposures or effects experienced by workers as a result of the air quality supplied to respirators. The Contractor will assume all responsibility for any toxic exposures or effects to all personnel or property caused by airborne particulates, mists, vapors, or any wetting agent(s), or hazardous substances, and for the legal disposal of said substances and/or any residual toxic residues. Commencement of the Work by the Contractor will constitute implied acceptance of these responsibilities.
- 3.2.4.4 Worker Discipline: The Contractor will at all times establish and maintain discipline and good order over its employees. The Contractor will not employ on the work crew any person not skilled in the Work assigned, nor anyone who has not received notice and instructions in the dangers of asbestos exposure, and in the methods of reduction of the dangers associated with its disturbance. Workers must also receive training in the proper use of respirators, safety procedures, equipment, protective clothing, and appropriate work procedures. The Contractor will remove any employee from the job site failing to adhere to any standard or requirement set forth herein.
- 3.2.4.5 Work Crew Size: The Contractor is responsible for setting the size of its work crew(s), subject to the conditions stated in this paragraph. During asbestos removal operations, a minimum of two (2) workers must be in a work area at any time. No worker shall be allowed to work alone in a regulated work area. Under no circumstances may workers within a regulated work area be allowed to work without the supervision of an on-site foreman. The crew size on any given day shall be adequate to progress and/or complete the Work in accordance with the established Project Schedule.

- 3.2.4.6 Respiratory Protection: Prior to commencement of work, all workers must be instructed and must be knowledgeable in the use of respiratory protective equipment. All respiratory protection is to be provided to workers in conjunction with a respiratory protection program which shall meet the requirements of Cal-OSHA 8 CCR §5144 et. seq. and 8 CCR §1529 et. seq. This includes, but is not limited to, qualitative or quantitative fit testing. The following additional requirements shall apply:
- 3.2.4.6.1 The Contractor will provide its workers with respiratory equipment approved by the National Institute for Occupational Safety and Health (NIOSH) for use in atmospheres containing asbestos fibers. Respiratory protection will be issued to each worker for their sole and individual use. Respiratory protection will be worn by all on-site personnel entering into a regulated Work Area or who may otherwise be potentially exposed to asbestos. Respiratory protection is to be worn at all times when inside a regulated Work Area, as well as during personal decontamination.
- 3.2.4.6.2 Where respirators with disposable filters are employed, the Contractor will provide sufficient filter cartridges for replacement as necessary by the worker, or as required by the applicable regulation.
- 3.2.4.6.3 The Contractor will supply all its employees with adequate respiratory protection, to meet the minimum standards of the applicable Cal-OSHA requirements. In accordance with 8 CCR §1529 et. seq., the Contractor will have a Competent Person conduct exposure assessments and periodic monitoring to establish the minimum appropriate respiratory protection to be used and the effectiveness of the chosen respiratory protection. In the absence of data acceptable to the Project IH Consultant as satisfying the requirements for a Negative Exposure Assessment [8 CCR §1529(b)], the Contractor must conduct Initial Exposure Assessments, as defined in 8 CCR §1529(f)(2). In addition, the Contractor will require and enforce the use of the following activity-related requirements:
- (a) Work involving the use of solvents or volatile organic compounds shall be conducted with the use of air purifying respirators equipped with HEPA and Organic Vapor cartridges.
 - (b) Any question as to respiratory protection requirements for any activity unnamed or not otherwise described herein shall, by default, require the maximum protection.
 - (c) Appropriate respiratory equipment will be used throughout the project, including during the removal of final layers of plastic after final air clearance is attained.
 - (d) The minimum respiratory protection to be used during Class I asbestos removal will be powered air-purifying respirators (PAPRs).
- 3.2.4.6.4 The Contractor shall post in the Equipment Room and the Clean Room, all decontamination and safety procedures to be followed for ingress and egress from a regulated work area.

- 3.2.4.7 Protective Clothing: The Contractor is to provide workers with sufficient sets of hooded, disposable, full-body coveralls recommended for use in asbestos operations equivalent to DuPont "TYVEK-Type 14". Such full body protective clothing will include, but not be limited to:
- 3.2.4.7.1 Foot coverings including safety shoes or boots, and/or disposable foot coverings.
 - 3.2.4.7.2 Protective head coverings (hard-hats).
 - 3.2.4.7.3 Protective clothing should be hooded, full-body coverall type.
 - 3.2.4.7.4 Durable water-proof gloves (plastic, latex, rubber, nitrile, etc.) selected for chemical compatibility of the glove material and the liquid materials to be handled. Cloth or leather gloves may also be worn for comfort, but are not to be worn alone when handling hazardous liquids.
- 3.2.4.8 Additional Clothing Requirements: The Contractor will observe the following additional work clothing requirements:
- 3.2.4.8.1 Street clothes may not be worn under protective clothing into a regulated work area.
 - 3.2.4.8.2 Any non-decontaminated protective clothing must remain within the contaminated areas, and will be disposed of as asbestos-contaminated waste upon completion of its use.
 - 3.2.4.8.3 Provide authorized visitors with disposable sets of protective full-body clothing including footwear, as needed.
 - 3.2.4.8.4 Provide eye protection and hard hats as required for job conditions or by applicable safety regulations. Where negative pressure respirators are worn, they are to be full-faced, unless the Contractor also provides protective eye wear.
 - 3.2.4.8.5 All clothing must be sealable by design and/or by securing with tape at the workers' ankles and wrists. Short pants or short sleeve shirts will not be allowed for primary clothing in the work area.
- 3.2.4.9 Personal Exposure Monitoring: It is the Contractor's responsibility to conduct required personal exposure monitoring. Such exposure monitoring must be in full compliance with the requirements of 8 CCR §1529, et. seq. and 8 CCR §5144, et. seq. The Contractor will monitor the airborne asbestos exposures of not less than 10% of the work crew, or a minimum of two (2) workers, whichever is greater. Workers will be monitored in "worst case scenario" tasks, as well as those conducting less hazardous work. Personal exposure monitoring is not the responsibility of the County, nor of the Project IH Consultant, however, the Project IH Consultant may elect to conduct such monitoring as a supplemental or quality assurance measure. Personal exposure monitoring conducted by the Project IH Consultant is not to be construed as a substitute for, nor in any way to obviate, the Contractor's duty to conduct such monitoring. Personal exposure monitoring for asbestos will be conducted and analyzed in accordance with NIOSH Method 7400. Analytical results of Contractor's personal

exposure monitoring must be posted daily at the work site, and copies of the analyses are to be submitted to the County along with the Post-Job Submittals.

3.2.5 Waste Management And Disposal

- 3.2.5.1 General: The Contractor is responsible for the safe handling, packaging, labeling, storage and transportation of all asbestos-containing waste (hazardous and non-hazardous) generated by the Work. By commencing this work, the Contractor implicitly agrees to bear all costs arising from any claims, damages, losses, and/or clean-up expenses incurred which as a result of the Contractor's negligence result from an asbestos release(s) on the job-site or while asbestos waste is in transport to a waste disposal facility. The Contractor and/or its designated subcontract waste hauler will deliver all asbestos-containing waste materials to an appropriately designated waste disposal facility that has been accepted by the County and which is permitted in accordance with applicable regulations.
- 3.2.5.2 Storage Facilities: The Contractor will assure that all asbestos-containing wastes (hazardous and non-hazardous) generated by the Work are stored in a secured manner until received at the waste disposal facility. Debris bins, storage enclosures, etc. must be locked overnight, and whenever the Contractor is off-site or unable to directly monitor their contents and management. The Contractor will ensure that the appropriate and required warning signs are posted on waste storage locations. The Contractor will be responsible to maintain the waste storage facilities in an orderly and well-kept condition at all times. The Contractor will conduct routine waste storage area inspections to assure that appropriate storage conditions are maintained. Waste is not to be co-mingled with stored non-waste material or equipment.
- 3.2.5.3 Off-site Shipment of Wastes: The Contractor will notify the County and the Project IH Consultant in advance, whenever asbestos-containing waste materials are to be removed from the Project site. A copy of the Uniform Hazardous Waste Manifest or any other documents required by State or Local agencies shall be completed by the Contractor and submitted to the Project IH Consultant for review and signature prior to transporting asbestos-containing waste materials to a disposal facility. The Contractor shall provide sufficient advance notice of the need to obtain manifest signatures, so as to not delay waste shipment or otherwise impede the Project Schedule. The Project IH Consultant shall have authority to sign or approve waste shipping documents on behalf of the County. It shall be the Contractor's responsibility to obtain the necessary authorized signature(s) to ship wastes off-site. Delays or expenses resulting from the untimely coordination of waste shipment documentation shall be borne by the Contractor.
- 3.2.5.4 Waste Shipment Documentation: EPA Uniform Hazardous Waste Manifest forms will be used for all waste transported off-site for hazardous waste disposal. An asbestos non-hazardous waste tracking manifest will be used for all asbestos-containing waste transported off-site for disposal as non-hazardous waste. The Contractor will submit original "Generator" copies of all hazardous and non-hazardous waste manifests to the Project IH Consultant at the time the waste is transported off-site for disposal. All waste tracking documentation must meet the requirements of BAAQMD Regulation 11, Rule 2 (sections 11-2-304.6 and 11-2-502). All waste loads removed from the Project Site shall either be weighed by a Certified Weigh master prior to delivery to the disposal facility or at the disposal facility. Weight tickets shall be submitted by the Contractor as a part of the Contractor's Post-Job Submittals. At the conclusion of the Work, the Contractor shall provide documentation that the asbestos-containing waste

materials were disposed of at an appropriate EPA-approved waste disposal facility. The documentation shall be submitted as part of the Contractor's Post-Job Submittals.

- 3.2.5.5 Shipment Containers: All waste shipping containers shall be individually labeled with appropriate signage and warnings, as required by applicable regulations, codes and ordinances. All waste hauling vehicles and/or waste debris bins shall, at all times, be enclosed and sealed while in route to the disposal facility.
- 3.2.5.6 Non-friable Debris Disposal: Resilient floor tiles, roofing materials and other non-friable asbestos-containing materials will not be required to be disposed of as hazardous waste, unless they are made friable during the removal process (see Definitions for description of friability.) Friability will be determined by the Project IH Consultant or by a representative of a regulatory agency.

3.2.6 Work Area Clearance Criteria

- 3.2.6.1 General: The Contractor is not to de-mobilize from any Work Area until both the visual clearance criteria and the air monitoring clearance criteria have been met and documented, as described herein.
- 3.2.6.2 Post-Abatement Work Area Inspections: Subsequent to the completion of the cleaning phases and waste load-out, the Contractor's Supervisor, accompanied by the Project IH Consultant, will conduct a detailed Post-Abatement Work Area Inspection (visual inspection) to assure that the identified asbestos has been removed and that the Work Area has been adequately cleaned. The concurrence of the Project IH Consultant is required to conclude that a Work Area has undergone adequate cleaning to proceed with clearance air testing. This Post-Abatement Work Area inspection will be conducted for each regulated Work Area and each individual inspection is to be documented in writing. Such documentation will be signed by the individuals conducting the inspections. A copy of each such documentation will be provided to the Project IH Consultant for conveyance to the County.
- 3.2.6.3 Visual Clearance Criteria: A Work Area will be considered to be adequately cleaned when no visible and no three-dimensional remnant of the ACCM or ACM can be seen or felt. This determination will be made by the Project IH Consultant on a case-by-case basis.
- 3.2.6.4 Air Clearance Testing: Once a Work Area has successfully achieved the Visual Clearance Criteria; has been encapsulated; and the encapsulant has been allowed to adequately dry, the Project IH Consultant will conduct Air Clearance Testing to evaluate the Work Area's cleanliness and suitability for unprotected human re-occupancy. Clearance air sampling will be conducted in general accordance with AHERA protocols (40 CFR 763 Subpart E) for analysis by Transmission Electron Microscopy (TEM), although other TEM analytical methods (e.g. Yamate II) may be employed at the discretion of the Project IH Consultant. Unless otherwise specified, air sample collection will be conducted by aggressively disturbing the air prior to and during the clearance air sample collection period. At the discretion of the Project IH Consultant, some Work Areas may be evaluated by Air Clearance Testing using PCM in accordance with the NIOSH 7400 Method. Clearance air samples will not be collected outside the work area for comparison purposes. Satisfaction of the Air Clearance Criteria will be based solely the analytical results obtained from clearance air testing conducted within a regulated Work Area.

- 3.2.6.5 Air Clearance Criteria: A Work Area will be judged to be adequately cleaned and suitable for unprotected human re-occupancy when the asbestos structure concentration of each of the air samples collected within the Work Area, as analyzed by TEM, is reported to be less than 70 s/mm² of sample filter media. In Work Areas where Air Clearance Testing is conducted for analysis by PCM, a Work Area will be judged to be adequately cleaned and suitable for unprotected human re-occupancy when each sample collected within the Work Area is reported to be less than 0.010 fibers per cubic centimeter of air sampled (<0.01 f/cc).
- 3.2.6.6 Failure to Achieve Clearance Criteria: Should the Contractor fail to achieve either the Visual Clearance Criteria or the Air Clearance Criteria within a Work Area, the Contractor will repeat a thorough re-cleaning of the entire Work Area. Following completion of the re-cleaning, the visual Post-Abatement Work Area Inspection will be repeated and documented again. Once the re-cleaned Work Area has successfully achieved the Visual Clearance Criteria, the Project IH Consultant will repeat the Air Clearance Testing. This pattern will be repeated until both Visual Clearance Criteria and Air Clearance Criteria have been achieved in the Work Area. All costs associated to the initial re-cleaning, and any subsequent re-cleaning, re-inspection, and/or re-sampling and analyses, will be borne by the Contractor as re-work.

END OF SECTION

ATTACHMENT - A

CERTIFICATE OF ASBESTOS WORKER'S ACKNOWLEDGEMENT

Project Name: _____

Date: _____

Project Address: _____

Contractor's Name: _____

WORKING WITH ASBESTOS CAN BE DANGEROUS. INHALING ASBESTOS FIBERS HAS BEEN LINKED WITH VARIOUS TYPES OF CANCER. IF YOU SMOKE AND INHALE ASBESTOS FIBERS THE CHANCE THAT YOU WILL DEVELOP LUNG CANCER IS GREATER THAN THAT OF THE NON-SMOKING PUBLIC.

Your employer's contract with the Owner of the above project requires that: You must be supplied with the proper respirator and be trained with its use. You must be trained in safe work practices and in the use of the equipment found on the job. You must receive a medical examination. These things are to have been done at no cost to you.

RESPIRATORY PROTECTION: You must have been trained in the proper use of respirators, and informed of the type of respirator to be used on the above referenced project. You must be given a copy of the written respiratory protection manual issued by your employer. You must be equipped at no cost with the respirator to be used on the above project.

TRAINING COURSE: You must have been trained in the dangers inherent in handling asbestos and breathing asbestos dust and in proper work procedures and personal area protective measures. The topics covered in the course must have included the following:

- Physical characteristics of asbestos
- Health hazards associated with asbestos
- Respiratory protection
- Use of protective equipment
- Pressure Differential Systems
- Work practices including hands on or on-job training
- Personal decontamination procedures
- Air monitoring, personal and area

MEDICAL EXAMINATION: You must have had a medical examination within the past 12 months at no cost to you. This examination must have included: health history, pulmonary function tests, and may have included an evaluation of a chest x-ray.

By signing this document you are acknowledging that you have been advised of your rights, as pertain to training and protection, and of the worker protection requirements applicable to your employer, the Contractor.

Signature: _____

Social Security No.: _____

Printed: _____

Name: _____

Witness: _____

ATTACHMENT - A

CERTIFICADO DE RECONOCIMIENTO POR PARTE DEL TRABAJADOR

NOMBRE DEL PROYECTO: _____

FECHA: _____

DIRECCION DEL PROYECTO: _____

NOMBRE DEL CONTRATISTA: _____

TRABAJAR CON ASBESTO PUEDE SER PELIGROSO. EL ASPIRAR DE FIBRAS DE ASBESTO HA SIDO LIGADO CON VARIOS TIPOS DE CANCER. SI UD. FUMA Y ASPIRA FIBRAS DE ASBESTO, LAS POSIBILIDADES QUE UD. SUFRIRA DE CANCER SON MAYORES QUE PARA LA PERSONA QUE NO FUMA.

El contrato entre su patron y el dueño para el proyecto antes citado requiere que le proveen a Ud. un repirador adecuado, y que a Ud. lo entrenen en su uso; que le entrenen a Ud. en praticas de seguridad en la obra y en el uso del equipo que se encuentre en la obra; que Ud. reciba un examen medico, y que todo esto se haga sin costo para Ud.

PROTECCION RESPIRATORIA: Ud. tiene que haber sido entrenado en el uso correcto de respiradores, y informado acerca del tipo de respirador que se usara en la obra citada. Deberan entregarle a Ud. una copia escrita del manual de proteccion respiratoria, expedida por su patron. Ud. tiene que ser equipado, sin costo alguno, con el respirador que se usara en la obra citada.

CURSO DE ENTRENAMIENTO: Ud. tiene que haber sido entrenado en los peligros inherentes en el manejo de asbesto y en el aspirar polvo de asbesto, asi como en los procedimientos correctos en el trabajo y las medidas de proteccion para el individuo y para la zona. Las materias tratadas en el curso deberan haber incluido las sigientes:

- Caracteristicas fisicas del asbesto
- Peligros a la salud asociados con el asbesto
- Proteccion repiratoria
- El uso de equipo de proteccion
- Sistemas de Presion Diferencial
- Praticas del trabajo, incluyendo experiencias en actividades reales del trabajo
- Procedimientos para la decontaminacion personal
- Revision del aire ambiental en una area y para el individuo

EXAMEN MEDICO: Usted debe haber tenido un examen médico en el plazo de los últimos 12 meses sin coste a usted. Esta examinación debe haber incluido: la historia de la salud, pruebas de función pulmonares, y pudo haber incluido una evaluación de una radiografia del pecho.

Firmando este documento usted está reconociendo que le han aconsejado de las sus derechas, como pertenece al entrenamiento y a la protección, y de los requisitos de la protección del trabajador aplicables a su patrón, el contratista.

Firma: _____

Numero de Su Seguro social: _____

Su nombre, en letras de molde: _____

Testigo: _____

ATTACHMENT - B

CERTIFICATE OF COMPETENT PERSON ACKNOWLEDGMENT

The Cal/OSHA Construction Safety Orders for asbestos-related work (8 CCR, §1529, et. seq.) outlines specific duties and qualifications of the “Competent Person.” An overview of these qualifications and responsibilities are summarized below.

The competent person must be authorized by his or her employer to take prompt corrective measures to eliminate hazards on the job and protect workers’ safety.

The competent person must be capable of:

- Identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees.
- Identifying existing asbestos hazards in the work place and selecting the appropriate control strategy for asbestos exposure.

The duties of the competent person includes, but are not limited to:

- Frequent and regular inspections of the job site, materials, and equipment.
- Supervise or perform the set-up of the regulated area and/or containment.
- Ensure the integrity of the regulated area and/or containment.
- Set up procedures to control entry to and exit from the regulated area and/or containment.
- Supervise all employee exposure monitoring and assure it is conducted according to regulatory requirements.
- Ensure the employees working within the regulated area(s) wear respirators and protective clothing as required by regulation.
- Ensure that employees working set up, use, and remove engineering controls, and use work practices and personal protective equipment in compliance with the regulations.
- Ensure that employees use hygiene facilities and observe the decontamination procedures specified in the regulation.
- Ensure through continuing onsite surveillance that engineering controls are functioning properly and employees are using proper work practices.
- Ensure that notification requirements of the regulation are met.

Additionally, the EPA requires the competent person to be trained in the Federal NESHAP regulations, the means to comply with them, and be on site during all removal operations.

I hereby certify that I have the authority to take prompt corrective measures to eliminate hazards on the job and protect workers safety. Furthermore, I certify that I have read and understand my duties as outlined above and under the applicable regulations, and that I will exercise them to the best of my ability.

Employer: _____

Signature of Competent Person

Date

Printed Name of Competent Person

APPENDIX B

LEAD HAZARD CONTROL

PART 1 - GENERAL

1.1 SUMMARY

- 1.1.1 Scope of Work: Work for this project is being completed in/on Buildings B, C, D, and the Guard Shack. Except as otherwise expressly provided herein, the Lead Hazard Control Contractor will supply all labor, supervision, materials, equipment, tools, services, insurance and each and every item of expense necessary for the control of lead hazards resulting from the disturbance of lead-containing materials. Work impacting lead-containing materials shall comply with all applicable federal, state and local requirements and the requirements of this specification.

A limited asbestos and lead survey was performed by Terracon Consultants, Inc. (Terracon) of Emeryville, California. The report documenting Terracon's findings (Limited Asbestos and Lead Survey, Former Nike Missile Site, 2892 Fairmont Drive, San Leandro, California, May 16, 2018) is presented in Appendix D. Numerous interior and exterior paint samples from tested positive for lead.

The intent of Lead Hazard Control work described herein is to control lead hazards that might be generated during the removal or disturbance of materials and equipment that may contain lead. The intent of this specification section is to stipulate engineering control options, work practices, and performance criteria that, if properly implemented, should minimize the likelihood of exposing personnel or the environment (air, soil or groundwater) to lead hazards. Lead-related work to be completed by the Contractor includes:

- Stabilization of loose and peeling paint on all painted surfaces. Stabilization shall include scraping loose and peeling paint and then application of a primer on remaining surfaces. Paint chips generated from these activities will be disposed as a RCRA waste.
- Removal and disposal of visible paint chips in soil and surfaces within a 4 foot distance of building foundations.
- Segregate lead-contaminated building components. **Contractor should assume that the waste categories provided below shall apply to this project for the purposes of preparing a bid/proposal. Additional waste characterization sampling may be necessary to characterize additional waste streams that are generated. Should additional waste stream sampling results change the waste categories presented below, a contract addition or deletion shall be negotiated between the County and Contractor to compensate for the change in handling and disposal.** Lead contaminated construction debris waste shall be generally separated into the following categories:
 - Painted CMU/cinder block at all buildings shall be disposed of as regular construction debris.
 - Lead-contaminated sheetrock/debris in Building D shall be disposed of as a RCRA waste.
 - Lead-contaminated sheetrock/debris in Building C shall be disposed of as a non-RCRA waste.
 - Painted components such as drywall, wood components (i.e. windows, doors, door frames, etc.) shall be disposed of as a non-RCRA waste.

- Painted metal components shall be recycled with an appropriate recycler. If the painted metal components can't be accepted at an appropriate recycler then they shall be disposed of as a non-RCRA waste.

County will only pay for collection and analysis of one set of waste stream samples that are required from the designated landfill. The Contractor will bear the sole financial responsible for any additional/subsequent sample and analysis that may be required from other landfills.

- 1.1.2 Applicability: Except as may otherwise be provided for, the requirements of the Lead Hazard Control Contractor will apply to the General Contractor and, by extension, to all their subcontractors engaged in "lead-related construction work", as defined herein, or other work involving the disturbance of lead-containing coatings or materials. Consequently, all those who engage in lead-related construction, whether individually or working in cooperation with others, may be designated as a Lead Hazard Control Contractor. This broad applicability is in accordance with existing regulations promulgated by the California Division of Occupational Safety and Health ("Cal-OSHA") and by the California Department of Public Health (CDPH). To the extent allowable by law, the County of Alameda (herein after referred to as the "County") will be the sole and final arbiter of which contractor(s) or subcontractor(s) qualify on this Project Site as a Lead Hazard Control Contractor (hereinafter referred to as the "Contractor").
- 1.1.3 Lead-Containing Materials: In accordance with all applicable federal, state and local laws and regulations, and the requirements of this Specification, the Contractor will manage all lead-containing materials identified herein and as may be subsequently revealed during the Work.
- 1.1.4 Project IH Consultant: The County's Industrial Hygiene Consultant (hereinafter referred to as the "Project IH Consultant") will provide independent, third-party industrial hygiene consulting services on behalf of the County. Such services may or may not include conducting on-site work observations, materials or environmental testing, and/or consulting with the County. It is not the responsibility of the Project IH Consultant to supervise the Contractor; nor to direct the Contractor's work effort; nor to assume the management of, or responsibility for, the Contractor's health and/or safety practices, nor its waste management, nor its regulatory compliance. At all times, the Contractor shall be solely responsible for the quality and execution of all phases and aspects of the Work.

1.2 SUBMITTALS

1.2.1 General:

- 1.2.1.1 In addition to any other contractual submittals required of the Contractor, the Contractor will provide the submittals described in this Specification section. Submittals will be reviewed by both the County and the Project IH Consultant for acceptability. The Project IH Consultant will either recommend submittals to the County for acceptance, or will return them to the County as deficient, with notations for correction and re-submission. The Project IH Consultant does not have authority to "approve" submittals.
- 1.2.1.2 Documents submitted by the Contractor in an effort to comply with the requirements of this Specification section are to be separate and distinct from any other submittals provided to comply with other Specification sections. In attempting to satisfy the requirements of this Specification

section, the Contractor must submit only those documents specifically requested to fulfill the specified requirements. Extraneous documentation will be rejected, but not returned.

- 1.2.1.3 Except as otherwise noted herein, the submittals required in this Specification section are required only of the Contractor(s) determined by the County to have primary responsibility for disturbing or removing the lead-containing materials identified herein. At the discretion of the County, other contractors or subcontractors may subsequently be required to provide all or part of the submittals required in this section.

1.2.2 Schedule And Format:

- 1.2.2.1 Delivery: Submittals listed in this section must be delivered to the County.
- 1.2.2.2 Quantity: Two (2) identical, legible copies of each submittal listed in this section shall be delivered in an organized fashion suitable to the County for review. One (1) copy will be conveyed by the County to the Project IH Consultant for review.
- 1.2.2.3 Work Commencement: No portion of the Work shall be commenced by the Contractor until the submittals are reviewed and accepted by the County.
- 1.2.2.4 Delays: Delays to the Work resulting from the submittal of deficient or illegible documentation, or from the untimely submittal of potentially acceptable documentation, shall be the sole responsibility of the Contractor. Except as otherwise granted by the County, no extensions will be made to the awarded contract schedule or budget to accommodate such delays.
- 1.2.2.5 Format: Submittals will be provided in 8-1/2" x 11" format with sections separated by numbered tabs indexed to a printed Table of Contents. Illegible submittals will be considered deficient and returned for correction.
- 1.2.2.6 Schedule: Submittals delivered to the County will observe and conform with the following timetable:
 - 1.2.2.6.1 Pre-work Submittals - Not less than ten (10) business days prior to the Contractor's mobilization onto the work site, the Contractor will deliver legible copies of the specified documents. The Project IH Consultant will review submittals and return deficient submittals to the County within five (5) business days following their receipt by the Project IH Consultant. Deficient submittals shall be corrected and resubmitted by the Contractor within five (5) business days of their return. Once accepted, the reviewed copy shall be returned to the Contractor, who shall maintain a copy of the accepted submittal at the work site.
 - 1.2.2.6.2 Product Submittals - Not less than ten (10) business days prior to the date of intended use of the product on the work site.

- 1.2.2.6.3 Post-work Submittals - Except as otherwise specified herein, the Contractor shall, within twenty (20) business days following demobilization from the project site, submit 2 copies of the Post-work Submittals listed in this section. If the Project IH Consultant or the County determines that the Post-work Submittals are unacceptable, the Contractor will be required to correct the deficiencies and re-submit them for review.

1.2.3 Pre-Work Submittals:

- 1.2.3.1 Progress Schedule: Provide a proposed work schedule indicating the following items:
 - 1.2.3.1.1 Indicate the sequence of the lead-related work by activity and the sequencing of lead-related work within each building, on each floor, and for each regulated area.
 - 1.2.3.1.2 Show the dates for beginning and completion of each major element (work area set-ups, paint removal/stabilization, detail cleaning, preliminary visual inspections, final visual inspections, tear-down, etc.) of the lead-related work, including substantial completion dates for each building, on each floor, and for each regulated work area. Update as necessary.
 - 1.2.3.1.3 Provide anticipated manpower distribution per scheduled activity and regulated work area. Distinguish between trained full-time personnel and unskilled or temporary labor. Indicate whether or not any subcontracted labor will be utilized.
 - 1.2.3.1.4 Provide anticipated number of shifts per day and days per week, as well as specific hours for each shift. Indicate any anticipated overtime, weekend work shifts, night shifts or holiday work shifts planned. Unless otherwise directed, work is to be conducted during routine business hours (M-F, 7:00 a.m. to 5 p.m.).
 - 1.2.3.1.5 At a minimum, the Contractor's Progress Schedule is to be formulated on a three-week, "look ahead" basis and updated weekly.
 - 1.2.3.1.6 All requests for deviations from, or changes to, the initially established daily work shift hours and/or the weekly work days shall be submitted in writing to the County and the Project IH Consultant for approval not less than 3 business days prior to the anticipated implementation of said changes. This requirement will also apply to remobilizations following periods of inactivity by the Contractor. The Contractor shall not implement any work schedule changes without the prior expressed approval of the

County. The Contractor shall be responsible for its Subcontractors' compliance with these requirements.

- 1.2.3.2 Materials and equipment: Provide manufacturers' catalog data for all materials and equipment to be used in the work. Data should be provided for, but not necessarily be limited to, the following equipment/materials:
 - 1.2.3.2.1 High Efficiency Particulate Air (HEPA) filtered vacuum equipment
 - 1.2.3.2.2 Air monitoring equipment
 - 1.2.3.2.3 Respirators
 - 1.2.3.2.4 Personal protective clothing and equipment
 - 1.2.3.2.5 Duct tape and sheet plastic
 - 1.2.3.2.6 Disposal containers
 - 1.2.3.2.7 MSDS sheets for all chemicals proposed for use on the job site
 - 1.2.3.2.8 Rotameter and calibration curve
- 1.2.3.3 The Contractor will submit a project-specific lead compliance program to address the strategies for protecting workers from exposure to lead. The program will include all items required by 8 CCR §1532.1(e)(2) including the following:
 - 1.2.3.3.1 Methods for demarcation and regulation of lead Work Areas
 - 1.2.3.3.2 Plans for establishing support & decontamination areas
 - 1.2.3.3.3 Air sampling plan
 - 1.2.3.3.4 Medical surveillance plan
 - 1.2.3.3.5 Engineering controls to be used
 - 1.2.3.3.6 Personal protective equipment to be used
 - 1.2.3.3.7 Decontamination procedures to be used
 - 1.2.3.3.8 Methods of lead dust control to be used
 - 1.2.3.3.9 Employee training requirements
 - 1.2.3.3.10 Monitoring/exposure records
- 1.2.3.4 Notices:
 - 1.2.3.4.1 Lead Pre-Job Notification: As applicable by the requirements of 8 CCR §1532.1(p), the Contractor will provide documentation of compliance by providing proof of written notification made to the nearest Cal/OSHA District Office.
 - 1.2.3.4.2 Written proof that all required permits, licenses, and registrations have been applied for and/or received. This will

include all Contractor and Project Superintendent Licenses and Certifications required under the federal, state, and local regulations.

- 1.2.3.4.3 The Work to be performed, as specified herein, is not intended to be “abatement,” as defined in 17 CCR §35001.

1.2.3.5 Worker Documentation:

- 1.2.3.5.1 Provide the name and social security number of each employee to be engaged in lead-related construction work.

- 1.2.3.5.2 All workers must be trained in accordance with the requirements of Cal-OSHA’s Construction Safety Orders for Lead [8 CCR §1532.1(l)]. This may include the need for CDPH-certified Lead Workers and/or Lead Supervisors. CDPH-certified Lead Worker and/or Lead Supervisor training must be conducted by a CDPH-approved Lead Worker/Lead Supervisor training provider. Provide current valid documentation from a CDPH-approved training provider indicating the most recent training course and training date that each person listed has attended. Photocopies of recent (within the 12 months preceding the anticipated Notice-to-Proceed date) training certification cards will suffice, as long as both sides of the card are provided and legible.

Provide the name and social security number of the Lead Supervisor responsible for this Project. Provide current valid documentation from a CDPH-approved indicating the most recent training course and training date that he/she has attended. Provide evidence indicating that he/she has a minimum of one year on-the-job experience as a Lead-Related Construction Supervisor.

All workers, machine operators, etc. involved in the handling, stockpiling, movement/transport of soil must provide current (within previous 12 months) valid documentation of worker training in accordance with Cal/OSHA Hazardous Waste Operations and Emergency Response (8 CCR §5192, “HAZWOPER”).

- 1.2.3.5.3 Provide current valid documentation indicating the date and type of each worker’s most recent respiratory training and respirator fit testing. Respirator fit testing documentation must contain all information required in 8 CCR §5144 (m)(2). Documentation must be provided certifying that all employees engaged in lead-related work have passed respirator fit testing within the 12 months preceding the anticipated Notice-to-Proceed date.

- 1.2.3.5.4 The Contractor will submit documentation demonstrating that employees engaged in lead-related construction work have had the appropriate medical examinations within the prescribed time periods immediately preceding project start-up. Each such medical document must be signed by a licensed physician to be acceptable. Documentation must include, but not necessarily be limited to, baseline blood lead level testing performed in accordance with the Cal-OSHA Construction Safety Orders for Lead (8 CCR §1532.1, et. seq.), and the respiratory medical examination requirements in accordance with 8 CCR §1532.1. Baseline blood lead testing will have been completed not more than 30 days prior to the start of this Work. Illegible or incomplete photocopies, or preliminary results reports will be rejected as deficient.
- 1.2.3.5.5 The Contractor will submit a statement from an examining physician, dated within the 12 months preceding the start of this work, for each employee engaged in lead-related construction work stating that the worker is medically fit to wear a respirator, in accordance with 8 CCR §5144. Each such medical determination must be signed by a licensed physician to be acceptable. Illegible or incomplete photocopies, or preliminary examination reports will be rejected as deficient.
- 1.2.3.5.6 Completed Certificates of Lead Worker's Acknowledgment forms (Attachment A to this Specification section). The Contractor's employees will not be allowed to engage in lead-related construction work on this Project prior to submitting a completed Certificate of Lead Worker's Acknowledgment form.
- 1.2.3.6 Subcontractors: Submit qualifications and 24-hour contact information for each subcontractor to be used. This shall include two (2) legible copies of federal, state, and/or local business or operating permits, as well as State and/or EPA identification numbers for the waste transporters and disposal facilities to be used.
- 1.2.3.7 Work Plan: Submit a detailed work plan of the practices and procedures proposed for use in complying with the requirements of this Specification section. Include in the plan schematic drawings with depictions of the locations and general configurations of all regulated work areas. Mark-ups of current project plans will suffice to satisfy this requirement. The text of the Work Plan should address the sequencing of the Work; the interface of trades involved in the performance of work; work schedule including work shift time, number of employees, date of start and completion including dates of preparation work, lead disturbance work, and anticipated completion/final inspection dates; methods to be used to assure the safety of building occupants and/or visitors to the site; disposal plan including name and location of accepted disposal facility(ies); and a detailed description of the methods to be employed to control worksite contamination. Expand

upon the use of proposed engineering controls, methods of containment to control the potential creation of the lead hazards within the Work Area(s), and segregation and packaging of lead waste/debris. This Work Plan is not the same as the Lead Compliance Plan described in paragraph 1.2.3.3 above, although the two plans may be compiled in a single document, if all individually specified elements of the two plans are addressed. The plan must be reviewed and accepted by the County or Project IH Consultant prior to the commencement of work.

- 1.2.3.8 Contingency Plan: Submit a contingency plan for emergencies including medical, fire, accidents, injuries, power failure, or any event that may require modification of decontamination or Work Area isolation procedures. Include in plan specific procedures for decontamination and/or Work Area isolation. **Note:** Nothing in this specification should be interpreted as instructions to impede the rapid and safe exiting from the work area(s), nor to impede the provision of adequate medical attention in the event of an emergency.

Post: In a room immediately adjacent to Personnel Decontamination Unit, prominently display telephone numbers and locations of, and driving instructions to, emergency services including, but not limited to: fire, ambulance, physician, hospital, police, power company, telephone company, and the Contractor's job-site Superintendent.

- 1.2.3.9 Field Logs: Submit a sample of Daily Field Logs, Work Area Entry/Exit Logs, etc. to be used during the work.
- 1.2.3.10 Rental Equipment: If rental equipment is to be used in conjunction with this lead-related construction project, a written notification is to be provided to the rental company informing the company that the rented equipment will be used on a lead-related construction project. A copy of that written notification will be submitted to the Project IH Consultant. The notification must state how the rented equipment is to be used, how it will be decontaminated following its use, and include a space for the acknowledgement of the rental company that it has been advised of the rented equipment's intended use. The Contractor will obtain written acknowledgment from an authorized representative of the rental company and will return an original signed copy of the acknowledgment to the Project IH Consultant as documentation of compliance with this requirement. In the absence of such rentals, the Contractor will submit a signed declaration on the Contractor's letterhead and signed by an authorized representative of the Contractor stating that no rented equipment will be used by the Contractor on this project.
- 1.2.3.11 Material Safety Data Sheets: Submit current Material Safety Data Sheets for each potentially hazardous material to be used during the lead-related work.

- 1.2.3.12 Waste Hauling Qualifications: Submit proof of hazardous waste transporter's registration and the vehicle operator training. Submittals shall include, but not necessarily be limited to: business name, address (mailing address and physical location), and business telephone number of the company; primary contact name and emergency contact (24-hour) telephone number; documentation of current State and/or EPA authorization to operate; and insurance coverage.
- 1.2.3.13 Waste Disposal Facility Qualifications: Submit documentation of the California State and/or EPA-approved waste disposal facility chosen to receive shipments of lead-containing waste generated during this Project. Such information will include, but not necessarily be limited to: business name, address (mailing address and physical location), and business telephone number of the facility; primary contact name and emergency contact (24-hour) telephone number; documentation of current State and/or EPA authorization to operate; operator's facility I. D. number; classification and/or types of waste(s) accepted; name, business address and telephone number of insurance provider; documentation of insurance type(s), coverage amounts, and any limitations on liability; and any regulatory agency information pertaining to known citations issued, notices of violations issued, corrective actions ordered, Records of Decisions rendered, or on-going environmental investigations or known liabilities.

1.2.4 Post-Work Submittals:

- 1.2.4.1 General: In accordance with the requirements of the above Section 1.2.2.6.3 – Post-Work Submittals, submit the following documentation:
 - 1.2.4.1.1 Copies of employee and visitor Work Area Entry/Exit Logs and Daily Field Logs/Reports.
 - 1.2.4.1.2 Waste manifests, weight tickets, and landfill receipts.
 - 1.2.4.1.3 Results of Contractor's personal exposure air monitoring.
 - 1.2.4.1.4 Copies of analytical results from waste characterization.
 - 1.2.4.1.5 Incident reports describing any events such as injuries, accidents, emergencies, or loss of differential air pressure and the actions taken in response.

1.3 QUALITY REQUIREMENTS

1.3.1 Reference Standards:

- 1.3.1.1 Regulations: The Contractor will comply with the requirements of all applicable federal, state and local government regulations and guidelines governing lead-related construction work and/or the disposal of lead-containing wastes, as well as all other applicable regulations. The following regulations and/or guidelines listed herein are applicable to this Work and are incorporated into this Specification section by reference. This listing is

not intended to be comprehensive, nor does it necessarily limit compliance to the following:

CODE OF FEDERAL REGULATIONS (CFR)

29 CFR 1926	Construction Standards
29 CFR 1926.62	Lead in Construction Standard
40 CFR Parts 50.12	Ambient Air Quality Standard for Lead
40 CFR Parts 261, 265, and 268	Hazardous Waste Management
40 CFR Parts 172, 173, 178 ,179	Hazardous Material Transportation 40
40 CFR Part 745	Lead Renovation, Repair, and Painting Final Rule

CALIFORNIA CODE OF REGULATIONS (CCR)

8 CCR §1532.1	Construction Safety Orders for Lead
8 CCR §1536	Construction Safety Orders – Ventilation Requirements for Welding, Brazing and Cutting
8 CCR §1537	Construction Safety Orders – Welding, Cutting, and Heating of Coated Metals
8 CCR §5144	Respiratory Protection
17 CCR Div. 1, Chapter 8	Accreditation, Certification, and Work Practices for Lead-Based Paint and Lead Hazards (revised 4/30/08)
22 CCR Division 4.5	Hazardous Waste

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Regulation 11, Rule 1	Hazardous Pollutants – Lead
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- 1.3.1.2 Guidelines: Applicable industry guidelines pertaining to lead-related construction work include, but are not limited to, the following:

Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, Office of Healthy Homes and Lead Hazard Control, U.S. Department of Housing and Urban Development (HUD), Second Edition July 2012.

Guide for Containing Surface Preparation Debris Generated During Paint Removal Operations, The Society for Protective Coatings (SSPC), Technology Guide No. 6, revised 2012.

- 1.3.1.3 Applicability. The most current version of each document will apply. Where conflicts among these regulations or standards exist, the more stringent requirement or interpretation will apply.

- 1.3.2 Definitions: In addition to definitions provided elsewhere in these Specifications, the following definitions will apply:

- 1.3.2.1 **Action Level:** Action level means an employee exposure, without regard to the use of respirators, to an airborne concentration of lead of 30 micrograms per cubic meter of air ($30 \mu\text{g}/\text{m}^3$) calculated as an 8-hour time-weighted average (TWA).
- 1.3.2.2 **Air Monitoring:** The process of measuring the contaminant concentration of a specific volume of air in a stated period of time.
- 1.3.2.3 **Authorized Visitor:** The County or its designated representative, the Project IH Consultant, the Project IH Consultant's inspector or representative, or any representative of a federal, state, county, city, or local agency having legal or regulatory jurisdiction over the project while acting in an official capacity. Any person whose name appears upon an approved authorized visitor's list.
- 1.3.2.4 **Clean Room:** An uncontaminated area or room which is part of the worker decontamination enclosure with provisions for storage of worker's street clothes and protective equipment.
- 1.3.2.5 **Containment:** A system, process, or barrier used to contain lead hazards inside a Work Area such as described in *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*, U.S. Department of Housing and Urban Development, June 1995, Chapter 8, "Containment and Barrier Systems," Table 8.1, Table 8.2, and Table 8.3, or "Guide for Containing Surface Preparation Debris Generated During Paint Removal Operations," Society for Protective Coatings, Technology Guide 6, October 1, 2004.
- 1.3.2.6 **Competent Person:** One who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them, as specified in 8 CCR §1504.
- 1.3.2.7 **County:** The County of Alameda and its designated representative(s).
- 1.3.2.8 **Critical Barrier:** One or more layers of plastic or other impermeable barrier sealed over an opening into a Work Area or any other similarly placed physical barrier sufficient to prevent airborne lead dust in a Work Area from migrating to an adjacent area.
- 1.3.2.9 **Curtained Doorway:** A device to allow ingress and egress from one room to another while permitting minimal air movement between the rooms, typically constructed by placing two overlapping sheets of plastic over an existing or temporarily framed doorway, securing the vertical edge of one sheet along one vertical side of the doorway, and securing the vertical edge of the other sheet along the opposite vertical side of the doorway.
- 1.3.2.10 **Decontamination Enclosure System:** A series of connected rooms, with curtained doorways between any two adjacent rooms, for the decontamination of workers and of materials and equipment. A decontamination enclosure system always contains at least one airlock.

- 1.3.2.11 **Differential Air Pressure Equipment:** A portable local exhaust fan or “unit” equipped with HEPA filtration and capable of maintaining a constant, negative air pressure differential within the regulated Work Area by providing a low velocity air flow into contaminated areas from adjacent uncontaminated areas and exhausting filtered air outside the Work Area (preferably to the outdoor air).
- 1.3.2.12 **DOP Testing:** The challenge testing of HEPA-filtered equipment, using appropriate aerosols. A 0.3 µm dioctylphthalate aerosol was formerly used in challenging the efficiency of HEPA-filtered equipment. Although dioctylphthalate compounds are now suspected human carcinogens, the phrase “DOP testing” is still current vernacular for the process of challenge testing the efficiency of HEPA-filtered equipment.
- 1.3.2.13 **Enclosure:** See “Containment”
- 1.3.2.14 **Equipment Decontamination Enclosure:** That portion of a decontamination enclosure system designed for controlled transfer of materials and equipment, typically consisting of a washroom and a holding area.
- 1.3.2.15 **Equipment Room:** A contaminated area or room which is part of the worker decontamination enclosure with provisions for storage of contaminated clothing and equipment.
- 1.3.2.16 **Fixed Object:** A unit of equipment or furniture in the Work Area which cannot be removed from the Work Area.
- 1.3.2.17 **HEPA Filter:** A High-Efficiency Particulate Air (HEPA) filter capable of trapping and retaining 99.97 percent of particles greater than 0.3 micrometers in mass median aerodynamic equivalent diameter.
- 1.3.2.18 **HEPA Vacuum Equipment:** Vacuuming equipment with a HEPA filter system.
- 1.3.2.19 **Lead:** Lead means metallic lead, all inorganic lead compounds, and organic lead soaps. Excluded from this definition are all other organic lead compounds.
- 1.3.2.20 **Lead-Related Construction Work:** Any construction, alteration, painting, demolition, salvage, renovation, repair, or maintenance of a public building, including preparation or clean-up, that, by using or disturbing lead-containing material or soil, may result in significant exposure of adults or children to lead.
- 1.3.2.21 **Log Book:** A notebook or other book containing essential project data and daily project information and a daily project diary. This book will be kept up-to-date and on the project site at all times.

- 1.3.2.22 **Movable Object:** A unit of equipment or furniture in the Work Area which can be removed from the Work Area.
- 1.3.2.23 **MSDS:** Material Safety Data Sheet.
- 1.3.2.24 **Negative Initial Determination:** A demonstration by the employer, which complies with the criteria in paragraph (d)(5)(A) and (B) of 8 CCR §1532.1, that no employee is exposed to airborne concentrations of lead at or above the action level. The employer will make a written record of such a determination. The record will include at least the information specified in subsection (d)(3)(A) and will also include the date of determination, location within the worksite, and the name and social security number of each employee monitored.
- 1.3.2.25 **NIOSH:** National Institute of Occupational Safety and Health.
- 1.3.2.26 **Permissible Exposure Limit (PEL):** The Contractor will assure that no employee is exposed to lead at concentrations greater than fifty micrograms per cubic meter of air ($50 \mu\text{g}/\text{m}^3$) averaged over an 8-hour period. For work shifts longer than 8 hours, the maximum allowable employee lead exposure in units of micrograms per cubic meter of air will be calculated by the formula: 400 divided by the hours worked in that shift.
- 1.3.2.27 **Plasticize:** To cover floors, walls or ceilings with plastic sheeting as herein specified.
- 1.3.2.28 **Regulated Area:** An area established by an employer to demarcate areas within which lead-related construction work is conducted, and any adjoining area where debris or waste from such work may be accumulated; and a Work Area within which airborne concentrations of lead may exceed, or in which there is a reasonable expectation they may exceed, the permissible exposure limit. Requirements for regulated areas are set forth in 8 CCR §1532.1(i) (6).
- 1.3.2.29 **Time Weighted Average (TWA):** The TWA is an 8-hour time weighted average of the micrograms (μg) of lead per cubic meter (m^3) of air which represents the employee's 8-hour workday exposure. An 8-hour TWA is calculated in accordance with the formula:

$$\text{8-hour TWA} = \frac{(C_1 T_1 + C_2 T_2 + C_n T_n)}{480 \text{ minutes}}$$

where "C" is the contaminant concentration measured and "T" the measurement time period in units of minutes. If an employee is exposed to lead for more than 8 hours in any work day the employees' allowable exposure, as a time weighted average (TWA) for that day, will be reduced according to the following formula: Allowable employee exposure (in $\mu\text{g}/\text{m}^3$) = 400 divided by hours worked in the day. When respirators are used to limit employee exposure as required under subsection (c) of 8 CCR

§1532.1 and all the requirements of subsections (e)(1) and (f) have been met, employee exposure may be considered to be at the level provided by the protection factor of the respirator for those periods the respirator is worn. Those periods may be averaged with exposure levels during periods when respirators are not worn to determine the employee's daily TWA exposure.

- 1.3.2.30 **Washroom:** A room between the Work Area and the holding area in the equipment decontamination enclosure system. The washroom comprises an airlock.
- 1.3.2.31 **Work Area:** Designated rooms, spaces, or areas of the project in which lead-related construction will be conducted or which may become contaminated as a result of such lead-related construction. A contained Work Area is a Work Area which has been sealed, plasticized, and equipped with a decontamination enclosure system. A non-contained Work Area is an isolated or controlled-access Work Area which has not been plasticized nor equipped with a decontamination enclosure system.
- 1.3.2.32 **Worker Decontamination Enclosure System:** That portion of a decontamination enclosure system designed for controlled passage of workers, and other personnel and authorized visitors, typically consisting of a clean room, a shower room, and an equipment room separated by air locks.

PART 2 - PRODUCTS

2.1 MATERIALS

- 2.1.1 Product Prohibitions: The following products or product constituents are prohibited from use during these lead-related work activities:
 - 2.1.1.1 Any product for which a Material Safety Data Sheet is available from the manufacturer and has yet to be submitted.
 - 2.1.1.2 Any product for which a less hazardous substitute product is readily available, provided that the substitute product possesses similar performance characteristics.
 - 2.1.1.3 Any product containing any concentration of diethylene glycol dimethyl ether; ethylene glycol monoethyl ether; or ethylene glycol mono methyl ether (skin TLV 5 ppm; CAS 109-86-4). These constituents cause reproductive damage and blood cell damage.
 - 2.1.1.4 Any product containing any concentration of ethylene glycol (1,2 Ethanediol glycol; TLV = 50 ppm). This chemical causes kidney damage if ingested.
 - 2.1.1.5 Any product containing any concentration of formaldehyde, a suspect carcinogen.
 - 2.1.1.6 Any product containing any concentration of methylene chloride, a suspect carcinogen.

- 2.1.1.7 Any product containing any concentration of n-hexane. This chemical causes peripheral nerve damage (potential ingredient in spray adhesive).
- 2.1.1.8 Any product containing any concentration of isocyanates. An allergic sensitizer, this group of chemicals typically has no warning properties (potential ingredient in spray foams and some epoxies).
- 2.1.1.9 Non-fire rated visquene and/or non-fire rated lumber are prohibited from use.
- 2.1.1.10 Solvents with a flash point <140° F are prohibited from use.
- 2.1.2 **EQUIPMENT PROHIBITIONS:** The following equipment are prohibited from use during these lead-related construction activities:
 - 2.1.2.1 Fasteners: High velocity powder-actuated fasteners are prohibited from use.
 - 2.1.2.2 Torches: Open flame torches are prohibited from use without prior approval of the County. Open flame torches are prohibited from use as a means of removing lead-containing materials, paints or surface coatings on this Project.
 - 2.1.2.3 Compressed Air: Air compressors, leaf blowers or similar forced-air equipment is prohibited from use for cleaning or decontamination purposes during these lead-related work activities.
 - 2.1.2.4 Lamps: Sodium or mercury vapor (metal halide) lamps are prohibited from use.
 - 2.1.2.5 Ladders: Wooden or metal ladders are prohibited from use.
 - 2.1.2.6 Engines: Internal combustion engines shall not be permitted for operation indoors without the expressed written permission of the County in consultation with the Project IH Consultant.
 - 2.1.2.7 Grounded Electrical Equipment: Electrical equipment manufactured with internal grounding or grounded wiring shall not be used if the grounding has been removed, tampered with, or otherwise altered.
 - 2.1.2.8 HEPA-Filtered Vacuum Cleaners Without Certification of Efficiency Challenge Testing: Vacuums without certification of on-site testing for efficiency (“DOP testing”) shall not be allowed for use outside of a negative differential pressure enclosure (“containment”).
 - 2.1.2.9 Power tools, including but not limited to sanders, grinders or needle guns, that are not equipped with HEPA-filtered dust capture systems, are prohibited from use as a means of removing lead-containing materials, paints or surface coatings on this project.

- 2.1.2.10 Hydro blasting or high pressure washing (“power–washing”) and/or abrasive media blasting without containment and barrier systems is prohibited on this Project.

2.1.3 Material Requirements:

- 2.1.3.1 Sealants: Sealants used will have a flame spread, smoke and fuel contribution of zero, and will be ASTM and UL rated for 3 hours for standard method fire test for fire stop systems
- 2.1.3.2 Visquene Sheeting: Visquene sheeting used will be in compliance with NFPA Standard 701 fire testing, with flame spread ≤ 5 and smoke development rating of ≤ 70 when tested by ASTM E-84. Minimal thickness will be 6 mil.
- 2.1.3.3 Waste Containers: Waste containers (bags, drums, bins, etc.) must be suitable for loading, temporary storage, transit, and unloading of lead waste without rupture, or otherwise causing exposure to persons or releases to the atmosphere. Use of rigid primary containers (bins, boxes, drums, etc.) is preferred and recommended. Where rigid primary containers are used, they must be lined with a secondary water-proof barrier of poly sheeting or poly bags of minimal thickness of 6 mil. All containers used for disposal of lead-containing waste must be labeled in general accordance with applicable regulations, and in specific with the requirements of 8 CCR §1532.1.
- 2.1.3.4 Adhesives: Adhesives, whether tape or aerosol liquid, shall be capable of securely bonding plastic to plastic, or plastic to substrate. The bonding strength and resulting seal of the material used must not be compromised by mist or water, encapsulating agent or any other product or process used in the regulated work area.
- 2.1.3.5 Warning Signs and Labels: Warning signs and labels will be used in compliance with applicable federal, state, and local regulations. Signs must be lettered in the language(s) necessary to communicate the specific hazard warning(s) to workers or visitors reasonably expected to be at the job site.

2.1.4 Equipment Requirements:

- 2.1.4.1 General: It is the responsibility of the Contractor to utilize tools and equipment that have been thoroughly and adequately decontaminated prior to their delivery to this project site. All equipment brought onto this project work site will be subject to inspection by the County and/or the Project IH Consultant. Visible evidence of suspected equipment contamination will be sufficient to cause the equipment to be rejected from mobilization onto the project work site. All costs resulting from the need to decontaminate any part of the worksite contaminated by the Contractor’s use of inadequately decontaminated equipment will be borne by the Contractor.
- 2.1.4.2 Differential Air Pressure Equipment: Differential air pressure equipment (also known as “exhaust fan units” or “negative air machines”) shall be equipped with HEPA filtration. All differential air pressure equipment will

be in well-maintained condition and will comply with ANSI/AIHA Standard Z9.2 for performance. Differential air pressure equipment will arrive on-site with the intake and exhaust openings sealed. Each unit must be efficiency-challenged ("DOP tested") on-site, in the presence of the Project IH Consultant and prior to use, so as to ensure a minimum 99.97% filtering efficiency of aerosol particulates of 0.3 microns or greater in size. DOP testing shall be performed by a professional third-party testing firm not otherwise financially affiliated with the Contractor. Each unit used on this project must have a certification label affixed to it attesting to its most recent successful testing. Upon arriving on-site, each unit must be visibly clean and free of apparent or suspected contamination, as judged by the Project IH Consultant. If, in the opinion of the Project IH Consultant, the differential air pressure units are judged to be in need of cleaning, maintenance, or in any other way fail to meet typical industry standards, the unit(s) may not be placed into operation on this project. If secured, negative air machines may be stacked, but no more than two high without the prior approval of the Project IH Consultant, and in no event will negative air machines be allowed to be inverted for the purpose of stacking.

- 2.1.4.3 HEPA-filtered Vacuum Cleaners: HEPA-filtered vacuum cleaners will be in well-maintained condition, and must be visibly clean and free of apparent or suspected contamination, as judged by the Project IH Consultant. **Each unit must arrive on-site sealed and empty of any debris.** Each unit must be DOP tested on-site, within a negative pressure enclosure, before it can be used outside of a regulated work area. DOP testing will be performed by a professional third-party firm not otherwise financially affiliated with the Contractor. Each unit used on this project must have a certification label affixed to it attesting to its most recent successful testing. If, in the opinion of the Project IH Consultant, the HEPA-filtered vacuum cleaners are judged to be in need of cleaning, maintenance, or in any other way fail to meet typical industry standards, the vacuum cleaners may not be placed into operation on this project. Care will be exercised by the Contractor to prevent commingling of asbestos and lead waste. Separate vacuums will be used for each type of waste clean-up.
- 2.1.4.4 Lights and Electrical Cords: Electrical lights and equipment utilizing electrical power cords will be in well-maintained condition and will be visibly clean and free of apparent contamination, as judged by the Project IH Consultant. All lighting and electrical equipment must be water resistant. Work lighting must have protective covers over the light source. Grounded electrical equipment will be used with grounded electrical supply and outlets. Where such equipment will be used in the near vicinity of water, ground fault circuit interruption (GFCI) protection shall be used in the wiring circuit at the first feasible point closest to the source of power.
- 2.1.4.5 Decontamination Facilities: At a minimum, hand washing facilities will be provided by the Contractor for all workers who may be occupationally exposed to lead-containing paint or by demolition of lead-containing

materials, irrespective of measured airborne lead concentrations. More extensive decontamination facilities may be required by regulation.

- 2.1.4.6 **Water Filtration Equipment:** Water will be collected from work processes and decontamination facilities and will be filtered prior to discharge. All lead-contaminated water will be collected and contained for waste characterization. Water will be filtered through a system capable of trapping particles 1 micron and larger in size. Filtered water may be discharged into a sanitary sewer system, only if the Contractor can satisfactorily demonstrate that it is acceptable to the local wastewater treatment facility to do so. The Contractor shall bear the responsibility to investigate discharge requirements and to obtain any necessary discharge permits prior to the start of work. To the extent feasible, water should be reclaimed and used on-site for application in wet method work practices prior to its discharge. Under no circumstances will water be permitted to be discharged prior to its characterization as a potential hazardous waste.
- 2.1.4.7 **Fire Extinguishers:** Fire extinguishers, rated not less than 2A or as specified by more stringent regulations, will be required in the regulated work area(s). The minimum allowable number of fire extinguishers in any individual work area will be one in the regulated work area and one in the clean area.

PART 3 - EXECUTION

3.1 PREPARATION

- 3.1.1 **Examination of Conditions:** The Contractor must carefully examine the work site before beginning work and report any previously undisclosed or special conditions to the County. Except as may be otherwise stipulated elsewhere in the Contract Documents, starting the Work shall be interpreted as implied acceptance of conditions as they exist.
- 3.1.2 **Responsibility for Work:** By commencing the Work, the Contractor acknowledges and agrees that he has sole and primary responsibility and obligation to the County to make inspections of his own work at all stages of the Work. This includes acknowledging and agreeing that he has sole responsibility to supervise or superintend the performance of the Work, and that said work will be in strict adherence and compliance with all applicable methods, materials, regulations, and required standards whether or not specified herein. The Contractor is responsible for site security upon starting the project. This responsibility extends 24 hours per day until project completion and final demobilization.
- 3.1.3 **Coordination of Work:** The Contractor is responsible to coordinate all scheduling, phasing, and completion of lead-related construction work with the County and all other employers working on the job site during the abatement activities. This includes the responsibility to make notifications or communications of hazards to other trades or employers, as required by regulation.
- 3.1.4 **Measurements and Quantities:** The Contractor is responsible to field verify all measurements, dimensions and/or quantities before the start of work. Discrepancies

between plan and field dimensions or quantities shall be reported to the County as soon as discovered.

- 3.1.5 Job Site Postings: Prior to commencing any preparation of the Work Area(s) for lead-related construction activities, the Contractor will post all required documents, warning signs, and erect any physical barriers in order that the work area(s) may be secured. Prior to the commencement of any work, the Contractor will post bilingual or multi-lingual (as appropriate) warning signage in and around the work site in compliance with applicable regulations.
- 3.1.6 Pre-Work Conference: Prior to the start of any work, the Contractor shall meet at the project site with the Project IH Consultant, the County, and other entities concerned with the lead-related work. This will be an organizational meeting to review responsibilities and personnel assignments; to identify any special needs or conditions pertaining to the work or its completion; to identify the work area containment and decontamination areas; and to coordinate temporary facilities including power, light, water, waste storage, etc.
- 3.1.7 Work Area Preparation:
- 3.1.7.1 Containment of Work Areas: Work Areas wherein lead-related construction work will occur must, at a minimum, be prepared in general accordance with containment methods set forth in Chapter 8 of the HUD Guidelines, or alternatively, in accordance with The Society for Protective Coatings (SSPC), Technology Guide No. 6, 2012.
- 3.1.7.2 Work Area Designation: Each regulated work area will be designated by the Contractor and discussed with the Project IH Consultant prior to its preparation. At a minimum, topics will include ingress and egress points, work area configurations, containment methods, and installation of decontamination facilities. This may be accomplished at the Pre-Work Conference.
- 3.1.7.3 Electrical Lock-out: The Contractor, in coordination with the County, is responsible for the shutdown and disconnection of all electrical power within the work area. The Contractor will arrange for temporary power and lighting, and will ensure safe installation of temporary power sources and equipment per applicable electrical code requirements. The Contractor should notify the County in writing before disconnecting any power or communication lines that may service the subject buildings or adjacent buildings.
- 3.1.7.4 Work Area Preparation: Polyethylene (poly) sheeting will be used to capture and contain lead debris contamination during routine removal from a substrate. Poly sheeting can be used in combination with water misting (dust suppression) to protect the adjacent surfaces (including any exposed exterior soils surrounding building exteriors that may be impacted by the Work) during disturbance of exterior surfaces. Adequate protection of non-impacted building areas, and/or exterior soils or pavements, may require the

use of multiple layers of poly sheeting, or alternatively effective means. Where poly sheeting is used, the sheeting layers will be firmly affixed to, and extend outward a minimum of 6 feet from interior building walls and 20 feet for exterior foundations. If, during the disturbance of paint or building components, it is evident that lead-containing paint/debris are falling or will likely fall beyond the poly sheeting, the distance will be increased and/or modified as necessary to capture all debris. Doors, windows and other lead-painted or lead-containing materials subject to disturbance will be similarly prepared with poly sheeting and adhesive tape, or alternatively effective means, so as to contain lead-containing dust or debris to within the regulated Work Area. Damage to, or holes created in, poly sheeting barriers during the Work will be immediately repaired.

- 3.1.7.5 Effect of Wind on Exterior Work: The Contractor will take all necessary steps to protect exterior soils, adjacent buildings and properties, and storm drains from impact by lead debris. Work Area preparation will include wind breaks or baffles, as necessary, to prevent lead dust or debris from being wind blown out of a regulated Work Area. The Contractor will halt the Work if Work Area preparations are demonstrably inadequate to contain debris within the regulated area(s). In no case will exterior lead paint disturbance be conducted during inclement weather, nor when wind speeds reach a sustained velocity of, or repeated peak gusts of, 20 miles per hour.
- 3.1.7.6 Decontamination Facilities: Prior to the start of work, at a minimum, a hand washing facility must be provided by the Contractor for all workers who may be occupationally exposed to lead-containing paint or by demolition of lead-containing materials, irrespective of measured airborne lead concentrations. A fully functioning shower facility will be provided if work activities result in, or should reasonably be expected to result in, personal exposures to lead in excess of the PEL.
- 3.1.7.7 Movable and Loose Items: Movable and loose items located within the work area(s) and not removed by the County are to be cleaned using HEPA-filtered vacuum equipment and/or wet cleaning methods, as appropriate, and will be removed from the work area to a temporary location designated by the County. The items will be received by and protected from future damage or loss by the County.
- 3.1.7.8 Regulation of Work Areas: Prior to lead-related construction work, the Contractor will regulate the Work Area(s) by methods including, but not necessarily limited to: posting lead-warning signs at all entrances to the Work Area(s). These signs will be in compliance with the Cal-OSHA Construction Safety Orders for Lead (8 CCR §1532.1 et. seq.). Only authorized workers and visitors will be allowed into a regulated Work Area.
- 3.1.7.9 Adjacent Areas: Work areas immediately adjacent to the Work, such as corridors or hallways which will not be subject to the Work, but are necessary routes to and from Work Areas, must be protected by the Contractor to prevent damage and/or lead contamination. Openings from

these areas into areas where lead-containing material is being disturbed will have curtained doorways to further minimize airborne lead release into non-regulated areas. The Contractor will be responsible to make all required notifications to trades or other building occupants working in areas adjacent to regulated Work Areas.

- 3.1.7.10 Emergency Exits: The Contractor will establish and maintain emergency and fire exits from the Work Areas, or establish alternative exits, as may be required by local fire officials or applicable fire codes.
- 3.1.7.11 Pre-Work Inspections: Prior to the start of lead-related work, the Contractor's Supervisor (Competent Person), accompanied by the Project IH Consultant, will conduct an inspection of the equipment and Work Area isolation preparations to assure that appropriate engineering controls are in place and are functioning sufficiently to contain lead hazards to within the Work Area. The concurrence of the Project IH Consultant will be required to determine that a Work Area has undergone adequate preparation to proceed with lead-related work. This Pre-Work Inspection will be conducted for each regulated Work Area and each individual inspection will be documented in writing. Such documentation will be signed by the individuals conducting the inspection. A copy of each such documentation shall be obtained by the Project IH Consultant for conveyance to the County.

3.2 METHOD OF CONTROL

3.2.1 Work Practices:

- 3.2.1.1 General: At all times, the Contractor will employ Lead Safe Work Practices to minimize or eliminate the potential for creating personal exposure to lead or creating lead hazards. This will include, but not necessarily be limited to, pre-cleaning the Work Area; misting the air within the Work Area, as necessary to reduce airborne lead dust concentrations; use of wet work methods (e.g., wet sanding and/or wet scraping) to reduce dust generation; prompt clean-up of lead-containing waste or debris; use of power tools equipped with HEPA-filtered dust collection systems; use of HEPA-filtered vacuums, when vacuums are used; use of HEPA-filtered exhaust fans, where deemed necessary to create a negative air pressure differential within the Work Area (see Chapter 8 of the HUD Guidelines); removal of lead-containing coatings from metal substrates prior to torch cutting; and employing the engineering controls necessary to reduce airborne lead dust concentrations within a Work Area.
- 3.2.1.2 Work Crew Size: The Contractor is responsible for setting the size of its work crew(s), subject to the conditions stated in this paragraph. During lead-related construction work, a minimum of two (2) workers must be in the Work Area at any time. No worker shall be allowed to work alone in a regulated Work Area. Under no circumstances may workers be allowed to work without the supervision of an on-site foreman while within the Work

Area. The crew size on any given day will be adequate to progress and/or complete the Work in accordance with the established Project Schedule.

- 3.2.1.3 Worker Discipline: The Contractor will at all times establish and maintain discipline and good order over its employees. The Contractor will not employ on the work crew any person not skilled in the Work to which he/she is assigned, nor anyone who has not received notice and instructions in the dangers of lead exposure, and in the methods of reduction of the dangers associated with its disturbance. Workers must also receive training in the proper use of respirators, safety procedures, equipment, protective clothing, and appropriate work procedures. The Contractor will remove from the job site any employee repeatedly failing to adhere to any standard or requirement set forth herein.
- 3.2.1.4 Visible Emissions: The Contractor is solely responsible for conducting on-going visual observations of the Work Area(s). If, at any time, visible emissions appear to be emanating from the Work Area, the Contractor will immediately cease work and establish more stringent engineering controls, or otherwise revise its work practices, to eliminate the visible emissions.
- 3.2.1.5 Demolition of Components: All work which disturbs deteriorated ("loose, flaking or peeling") lead-containing paint or lead-containing materials will be done utilizing hand tools. Loose, flaking or peeling paint will be removed with hand tools prior to demolition of building components. Power tools may be used for such work only if the power tools are equipped with HEPA-filtered dust collection systems. Surface preparation prior to demolition will likewise be done by hand with wet methods. Water may be used in sanding or scraping ("wet work methods") only in quantities sufficient to minimize airborne dust, but may not be used in such a volume as to cause run-off. All lead-contaminated water will be collected and contained for filtration and/or waste characterization. For this reason, power-washing should be avoided.
- 3.2.1.6 Removal of Toxic Coatings: In accordance with 8 CCR §1537, et. seq., all surfaces covered with toxic preservatives, including coatings which generate toxic substances upon heating, will be stripped for a minimum distance of four inches from the area of heat application, or the employee(s) engaged in such work will be required to use supplied-air respirators in accordance with 8 CCR §5144, et. seq., or the provisions of 8 CCR §1536(b), (c) will apply.
- 3.2.1.7 Indoor Torch Cutting: Where indoor torch cutting will be conducted which involves building components coated with hazardous materials including, but not necessarily limited to lead, the work will be conducted in accordance with 8 CCR §1536, et. seq. Materials or surfaces from which lead-containing paints or coatings have been removed are not to be considered "lead-free," and are still subject to this requirement until and unless a Negative Exposure Assessment has been established in accordance with 8 CCR §1532.1(d)(5).

- 3.2.1.8 **Material Handling:** Where lead-painted or other lead-containing building components are to be removed, the Contractor will, to the extent possible, remove them substantially intact and, where elevated, lower them to the ground for containerization. At no time may materials be allowed to drop to, nor accumulate upon, unprotected soil surfaces. Any loose or peeling paint will be removed before a painted building component is removed from the building and before the building is demolished. Painted building components with intact coatings (no loose or peeling paint) can be demolished with the paint in place. All lead-containing particulate debris must be collected and placed in leak-proof containers and stored for waste characterization.
- 3.2.1.9 **Work Area Cleaning:** Clean-up and containerization of lead-containing waste will be an on-going activity throughout the Work. Lead-containing debris must not be allowed to accumulate within the Work Area for subsequent clean-up. Containerized waste may be stored within the Work Area during the Work, but should be removed from the Work Area for storage in a secured location on a periodic basis. In no event will the accumulation of containerized waste within the Work Area be allowed to impede the work progress, nor compromise work-site safety.
- 3.2.1.10 **Containerization of Waste:** Unless otherwise specified, lead-containing debris and waste will be containerized in rigid primary waste containers (boxes, drums, bins, etc.) suitable for loading, temporary storage, transit, and unloading of lead waste without rupture, or otherwise causing exposure to persons or releases to the atmosphere. Rigid primary containers will be lined with a leak-proof barrier of poly sheeting or poly bags of minimum thickness of 6 mil. Waste containerized in bags will be double-bagged, evacuated of air, and sealed with duct tape. All containers used for disposal of lead-containing waste will be labeled in general accordance with applicable regulations.
- 3.2.1.11 **Waste Load Out:** Prior to the removal of containerized waste from the Work Area, each container will be decontaminated by wet-wiping to remove any residual lead contamination. Double-bagging of waste will be completed within the regulated Work Area and the exterior of each container will be individually wet-wiped prior to removal from the Work Area. Waste shall be loaded out of the Work Area through the equipment decontamination (waste load out) chamber and not through the personal decon. Once outside of the Work Area, the waste will be transported in rigid movable bins, wheelbarrows or comparable directly to a secured waste storage location.
- 3.2.1.12 **Equipment Decontamination:** Prior to removal from a Work Area, the Contractor will decontaminate all tools and equipment. Decontamination will include, but not be limited to: wet-wiping, HEPA-vacuuming, and containerizing tools into subsequently decontaminated containers. Prior to removal from the Work Area, HEPA-filtered vacuum cleaners will be emptied of debris, wet-wiped and wrapped, bagged or otherwise containerized for transport from the Work Area. Likewise, differential air

pressure equipment is to be sealed with poly sheeting and tape, and externally decontaminated before removal from the Work Area. All equipment will be subject to inspection by the Project IH Consultant prior to its demobilization from a regulated work area.

- 3.2.1.13 Detail Cleaning: Following completion of the Work, the Work Area will be cleaned using a combination of hand tools (mops, rags, etc.), wet-wiping, and HEPA vacuuming. Dry sweeping or shoveling of lead-containing waste or debris is prohibited. Any poly sheeting protecting the Work Area will be considered to be adequately cleaned when no visible and no three-dimensional remnant of debris or lead-containing waste can be seen or felt. Porous substrates such as wooden or concrete will similarly be considered to be adequately cleaned when no three-dimensional remnant of debris or lead-containing waste can be seen or felt. In no event will bridging encapsulants be allowed in lieu of detail cleaning.
- 3.2.1.14 Post-Work Inspections: Subsequent to the completion of the cleaning phases and waste load-out, the Contractor's Supervisor (Competent Person), accompanied by the Project IH Consultant, will conduct a detailed inspection of the Work Area to assure that the Work Area has been adequately cleaned. The concurrence of the Project IH Consultant will be required to conclude that a Work Area has undergone adequate cleaning following lead-related construction work. If a Work Area is not visibly free of all debris, the Contractor will re-clean the Work Area using wet-wiping and HEPA vacuums until a satisfactory condition is established. This Post-Work Inspection will be conducted for each regulated Work Area and each individual inspection will be documented in writing. Such documentation will be signed by the individuals conducting the inspection. A copy of each such documentation will be obtained by the Project IH Consultant for conveyance to the County. All non-essential equipment is to be decontaminated, as described herein, and removed from the Work Area prior to commencing a Post-Work Inspection.
- 3.2.1.15 Poly Removal: At the end of the work within a regulated Work Area, the poly sheeting will be cleaned, the Post-Work Inspection will be conducted and the poly sheeting will be removed. The poly sheeting must be thoroughly cleaned and decontaminated to allow it to be disposed of as "non-hazardous" waste. Cleaning will include wet wiping and vacuuming with a HEPA-filtered vacuum, as necessary. Following the successful completion of the Post-Work Inspection in each Work Area, the Contractor may remove the final layer(s) of plastic from the walls, floors, and/or ceilings (as applicable). All other isolation engineering controls including decontamination facilities will likewise remain in place until the successful completion of the Post-Work Inspection is achieved. No alternative approaches may be implemented without the concurrence of the Project IH Consultant. The Contractor will containerize removed plastic and any remaining debris, decontaminate the container, and dispose of the container and its contents as lead-contaminated waste. All other isolation engineering controls including decontamination facilities may similarly be removed once

all specified clearance criteria have been met. **Removal of plastic layers and isolation engineering controls (“teardown”) may not occur without the knowledge and consent of the Project IH Consultant.** The Contractor will conduct a post-teardown visual inspection of the work area to identify and remove any debris that may have resulted from containment breaches or from containment removal.

3.2.2 Worker Protection And Personal Decontamination

- 3.2.2.1 General: The Contractor will be solely responsible for the safety, efficiency, and adequacy of its work, workers, equipment and methods, and for any damages which may result from their negligent actions, practices, construction, maintenance, or operations. The Contractor will erect and maintain at all times, as required by the condition and progress of the Work, proper safeguards for the protection of the workers and the public, including the posting of appropriate and applicable warning signage on the site.
- 3.2.2.2 Competent Person: The Contractor will designate a responsible member of its organization to be present on the work site, whose duty shall be the detection, recognition, and prevention of accidents and potential accidents. The designated individual will assume and fulfill the duties of the Competent Person, as defined in 8 CCR §1504. In the absence of notice to the contrary, provided in writing to the Project IH Consultant, this person will be the on-site Lead-Related Construction Supervisor of the Contractor.
- 3.2.2.3 Toxic Exposure Responsibility: To the extent allowable by law, the Contractor assumes all responsibility for any toxic exposures or effects experienced by workers as a result of the air quality supplied to respirators. The Contractor will assume all responsibility for any toxic exposures or effects to all personnel or property caused by airborne particulates, mists, vapors, or any wetting agent(s), or hazardous substances, and for the legal disposal of said substances and/or any residual toxic residues. Commencement of the Work by the Contractor will constitute implied acceptance of these responsibilities.
- 3.2.2.4 Separation of Facilities: Workers engaged in lead-related construction or lead-disturbing activities will not be permitted to eat, drink, smoke, chew gum, apply cosmetics, or use tobacco products within a regulated Work Area. Lavatory facilities, eating facilities and clothing change areas are to be established and maintained separate from the regulated Work Areas.
- 3.2.2.5 Environmental Quality: At the discretion of the County, on-site environmental sampling for airborne or surface wipe concentrations of lead may be conducted at any time, in any location, with or without prior notice. The purpose of this environmental sampling will be to evaluate whether existing containment or engineering controls are adequate and sufficient to prevent the release of lead outside of regulated Work Areas. Such sampling, if conducted, would not be intended to meet the definition of a “lead hazard evaluation”, as defined in 17 CCR §35038(a).

3.2.2.6 Respiratory Protection: Prior to commencement of work, all workers engaged in lead-related construction or lead-disturbing activities will be instructed in, and will be knowledgeable of, the use of respiratory protective equipment. Respiratory protection will be utilized only after all other feasible lead exposure hazard reduction methods have been implemented and demonstrated to be insufficient to reduce worker exposures to below the Action Level. All respiratory protection measures will be provided to workers in conjunction with a respiratory protection program which will meet the requirements of Cal-OSHA regulations set forth in 8 CCR §5144 and 8 CCR §1532.1(f). This includes qualitative or quantitative fit testing. The following additional requirements will apply:

3.2.2.6.1 The Contractor will provide its workers with respiratory equipment approved by the National Institute for Occupational Safety and Health (NIOSH) for use in atmospheres containing lead dusts. Respiratory protection will be issued to workers for their sole and individual use. Respiratory protection will be worn by all on-site personnel entering the regulated Work Area(s). Respiratory protection will be worn at all times when inside the regulated Work Area, as well as during personal decontamination.

3.2.2.6.2 Where respirators with disposable filters are employed, the Contractor will provide sufficient filters for replacement as necessary by the worker, or as required by the applicable regulation.

3.2.2.6.3 In the absence of exposure monitoring data conforming to all Cal-OSHA requirements, the Contractor will assume lead exposures within work areas exceed the PEL and will, at a minimum, utilize the respiratory protection required for Low Exposure Trigger Tasks (i.e. manual demolition). In such instances, half-face mask, negative pressure, air-purifying respirators fitted with P-100 filter cartridges may be utilized during the disturbance of lead-containing materials. If half-face mask, negative pressure, air-purifying respirators are utilized, the workers will also be required to wear approved safety glasses or goggles. Workers engaged in Medium Exposure Trigger Tasks or High Exposure Trigger Tasks will, at a minimum, utilize the respiratory protection prescribed for those exposures and Trigger Tasks.

3.2.2.6.4 The Contractor will supply its workers with adequate respiratory protection, to meet the minimum standards of the applicable Cal-OSHA requirements. In accordance with 8 CCR §1532.1, the Contractor will have a Competent Person conduct exposure assessments and periodic monitoring to establish the minimum appropriate respiratory protection to be used and the effectiveness of the chosen respiratory protection. Until the Contractor performs exposure assessments in compliance with 8 CCR §1532.1(d) which determine actual employee exposures,

the Contractor is to assume that workers conducting Low Exposure Trigger Tasks (i.e. manual demolition) are being exposed to airborne lead in excess of the PEL, but not in excess of 10 times the PEL, and will protect employees accordingly. In addition, the Contractor will require and enforce the use of the following activity-related requirements:

- (a) Work involving the use of solvents or volatile organic compounds will be conducted with the use of air purifying respirators equipped with HEPA and Organic Vapor cartridges.
- (b) Any question as to respiratory protection requirements for any activity unnamed or not otherwise described herein, by default, will require the maximum respiratory protection required by regulation.
- (c) Appropriate respiratory equipment will be required of all persons entering into regulated Work Areas.

3.2.2.6.5 The Contractor will post in the Equipment Room and the Clean Room, all decontamination and safety procedures to be followed for ingress and egress from Work Areas.

3.2.2.7 Protective Clothing: The Contractor will provide workers with sufficient sets of hooded, disposable, full-body coveralls recommended for use in lead-related work operations equivalent to DuPont "TYVEK-Type 14". Such full body protective clothing will include, but not be limited to:

3.2.2.7.1 Foot coverings including safety shoes or boots.

3.2.2.7.2 Protective head coverings (hard-hats).

3.2.2.7.3 Protective clothing should be hooded, full-body coverall type.

3.2.2.7.4 Durable water-proof gloves (plastic, latex, rubber, nitrile, etc.) selected for chemical compatibility of the glove material and the liquid materials to be handled. Cloth or leather gloves may also be worn for comfort, but shall not be worn alone when handling hazardous liquids.

3.2.2.8 Additional Clothing Requirements: The Contractor will observe the following additional work clothing requirements:

3.2.2.8.1 Any non-decontaminated protective clothing will remain within the contaminated areas, and will be disposed of as lead-contaminated waste upon completion.

- 3.2.2.8.2 Provide authorized visitors with disposable sets of protective full-body clothing, as needed to enter into regulated Work Areas.
- 3.2.2.8.3 Provide eye protection and hard hats as required for job conditions or by applicable safety regulations. Where negative pressure respirators are worn, they will be full-faced, unless the Contractor also provides protective eye wear.
- 3.2.2.8.4 All clothing will be sealable by design or by securing with tape at the workers' ankles and wrists.

3.2.2.9 Personal Exposure Monitoring: It will be the Contractor's responsibility to conduct required personal exposure monitoring. Such exposure monitoring will be in full compliance with the requirements of 8 CCR §1532.1 and 8 CCR §5144. The Contractor will monitor the airborne lead exposures of not less than 10% of the work crew, or a minimum of two (2) workers, whichever is greater. Workers will be monitored in "worst case scenario" tasks, as well as those conducting less hazardous work. Personal exposure monitoring is not the responsibility of the County, nor of the Project IH Consultant, however, the Project IH Consultant may elect to conduct such monitoring as a supplemental or quality assurance measure. Personal exposure monitoring conducted by the Project IH Consultant is not to be construed as a substitute for, nor in any way to obviate, the Contractor's duty to conduct such monitoring. Analytical results of Contractor's personal exposure monitoring will be posted daily at the work site, and copies of the analyses are to be submitted to the County along with the Post-Job Submittals.

3.2.3 Waste Management And Disposal

- 3.2.3.1 General: The Contractor will be responsible for the safe handling, packaging, labeling, storage and transportation of all lead-containing waste (hazardous and non-hazardous) generated by the Work. By commencing this work, the Contractor implicitly agrees to bear all costs arising from any claims, damages, losses, and/or clean-up expenses incurred which, as a result of the Contractor's negligence, result from a lead release(s) on the job-site or while lead waste is in transport to a waste disposal facility. The Contractor or its designated subcontract waste hauler will deliver all lead-containing waste materials to an appropriately designated waste disposal facility that has been accepted by the County and which is permitted in accordance with applicable regulations.
- 3.2.3.2 Waste Segregation: All removed lead-containing paint, ceramic tile glaze debris, rags, respirator cartridges, disposable suits and any other lead-containing wastes generated during lead-related construction work will be considered potential hazardous waste until characterization has been performed in accordance with 22 CCR §66261.24. Waste will be segregated into distinct waste streams according to the waste categories suggested in the HUD Guidelines, which include:

- 3.2.3.2.1 Category I: Low Lead Waste – typically consists of non-hazardous construction materials, filtered wash water, cleaned plastic sheeting, and other items that test as non-hazardous;
- 3.2.3.2.2 Category II: Architectural components such as painted finished items like doors, windows, trim, etc. which demonstrate intact, undeteriorated and/or stabilized surface coatings;
- 3.2.3.2.3 Category III: Concentrated Lead Waste - typically hazardous materials such as paint sludge, paint chips vacuum debris, vacuum filters, and any waste testing hazardous; and
- 3.2.3.2.4 Category IV: Other waste requiring characterization testing.
- 3.2.3.2.5 Any asbestos-containing or asbestos-contaminated waste generated during the work will be segregated from suspected lead waste. Care will be exercised by the Contractor to prevent, where feasible, commingling of asbestos and lead waste. In general, separate vacuums will be used for each type of waste clean-up.
- 3.2.3.3 Storage Facilities: The Contractor will assure that all lead-containing waste (hazardous and non-hazardous) generated by the Work is stored in a secured manner until received at the waste disposal facility. Debris bins, storage enclosures, etc. will be locked overnight and whenever the Contractor is off-site or unable to directly monitor their contents and management. The Contractor will ensure that the appropriate and required warning signs are posted on waste storage locations. The Contractor will be responsible to maintain the waste storage facilities in an orderly and well-kept condition at all times. The Contractor will conduct routine waste storage area inspections to assure that appropriate storage conditions are maintained. Waste is not to be co-mingled with stored non-waste material or equipment. All waste will remain stored in secured waste storage areas until results of waste characterization are available. Due to analytical methods required for waste characterization, this may require storage for up to 10 working days or more.
- 3.2.3.4 Waste Characterization for lead hazard content will be performed as stipulated in Title 22 of the California Code of Regulations, including using one or more of the following testing procedures, as required:
 - 3.2.3.4.1 Total Threshold Limit Concentration (TTLC);
 - 3.2.3.4.2 Waste Extraction Test (WET)/STLC; and/or
 - 3.2.3.4.3 Toxicity Characteristic Leaching Procedure (TCLP).
- 3.2.3.5 Hazardous Waste Determination: Based on the testing protocols, any waste containing greater than or equal to 5 ppm lead using WET/STLC or any waste containing greater than or equal to 1000 ppm using the TTLC test will be considered a California Hazardous Waste/Non RCRA waste. Wastes

containing greater than 5 ppm lead using the TCLP analysis will be considered a hazardous RCRA waste. Wastes reported by the laboratory to contain more than 50 ppm and less than 1000 ppm using the TTLC test may still be hazardous waste and will require analysis using WET/STLC and/or TCLP tests.

3.2.3.6 Off-site Shipment of Wastes: The Contractor will notify the County in advance, whenever lead-containing waste materials are to be removed from the work-site. A copy of the Uniform Hazardous Waste Manifest or any other documents required by Federal, State or Local agencies shall be completed by the Contractor and submitted to the for review and signature prior to transporting lead-containing waste materials to a disposal facility. The Contractor will provide the County with sufficient advance notice of the need to obtain manifest signatures, so as to not delay waste shipment, nor to otherwise impede the Project Schedule. The Project IH Consultant will have authority to sign or approve waste shipping documents on the County's behalf. It is the Contractor's responsibility to obtain the necessary authorized signature(s) to ship wastes off-site. Delays or expenses resulting from the untimely coordination of waste shipment documentation will be borne by the Contractor.

3.2.3.7 Waste Shipment Documentation: EPA Uniform Hazardous Waste Manifest forms will be used for all waste transported off-site for hazardous waste disposal. The Contractor will submit original "Generator" copies of all hazardous and non-hazardous waste manifests to the Project IH Consultant at the time the waste is transported off-site for disposal. All waste loads removed from the Project Site shall either be weighed by a Certified Weighmaster prior to delivery to a waste disposal facility or at the waste disposal facility. Weight tickets will be submitted by the Contractor as a part of the Post-Job Submittals. At the conclusion of the Work, the Contractor will provide documentation that the lead-containing waste materials were disposed of at an appropriate EPA-approved waste disposal facility. The documentation will be submitted as part of the Post-Job Submittals.

3.2.3.8 Waste Shipment Containers: All waste shipping containers will be individually labeled with appropriate signage and warnings, as required by applicable regulations, codes and ordinances. All waste hauling vehicles and/or waste debris bins will, at all times, be enclosed and sealed while in transport to a waste disposal facility.

3.2.4 Work Area Evaluation Criteria

3.2.4.1 General: The Contractor will not be authorized to de-mobilize from a Work Area until the Post-Work Inspection criteria have been met and documented, as described herein.

3.2.4.2 Post-Work Inspection Criteria: A visual evaluation of each regulated Work Area (including poly sheeting) will be performed following completion of the Work in order to the evaluate the substantial completion of the stated scope of work and the thoroughness of the Contractor's Work Area cleaning.

Each regulated Work Area must be free of all visible debris to satisfy this assessment. If a regulated Work Area is not visibly free of all three-dimensional debris, the Contractor will re-clean the Work Area using wet-wiping and/or a HEPA-filtered vacuum until a satisfactory condition is achieved. The Contractor will be released only after each regulated Work Area has met the above criteria.

- 3.2.4.3 Optional Dust Wipe Sampling: At the discretion of the County, dust wipe sampling of a regulated Work Area may be conducted. The purpose of the dust wipe sampling will be to evaluate the effectiveness of the Contractor's containment measures. Sample analytical results will be compared to the lead dust concentrations established in 17 CCR §35035. If sample analytical results exceed the lead dust concentrations established in 17 CCR §35035 within the regulated Work Area, the Contractor will re-clean the Work Area using wet wiping and HEPA vacuums until satisfactory conditions are achieved.

END OF SECTION

ATTACHMENT - A

CERTIFICATE OF LEAD WORKER'S ACKNOWLEDGMENT

Project Name: _____

Today's Date: _____

Project Address: _____

Contractor's Name: _____

WORKING WITH LEAD CAN BE DANGEROUS TO YOUR HEALTH. INHALING LEAD DUST HAS BEEN LINKED WITH VARIOUS HEALTH PROBLEMS.

Your employer's contract for the above-named project requires that you: 1) be supplied with appropriate personal protective equipment, including respiratory protection, and be trained in its use; 2) that you be trained in lead-related construction work practices and in the use of the equipment used on this job; and 3) that you receive a medical examination. These things are to be provided at no cost to you.

RESPIRATORY PROTECTION: Your employer must provide you with training in the proper use of respirators and inform you of the appropriate type of respirator to be used on the above-named project. You must be provided access to the personal exposure sampling data used to determine the appropriate type of respirators selected for this work. You must also be provided access to the written respiratory protection manual issued by your employer. You must be equipped at no cost to you with the appropriate respirator for use on the above-named project.

TRAINING COURSE: Applicable regulations require that you be trained in the dangers inherent in working with lead and lead-contaminated dust and in proper work procedures and personal protective measures. The topics covered in the training must, at a minimum, include the following:

- The content of the Cal/OSHA Construction Safety Orders for Lead (8 CCR §1532.1, et. seq.) and its appendices;
- The specific nature of operations on this project that could result in exposure to lead above the action level;
- The purpose, proper selection, fitting, use, and limitations of respirators;
- The purpose, and a description, of the medical surveillance program, and the medical removal protection program including information concerning the adverse health effects associated with excessive exposure to lead;
- The engineering controls and work practices associated with the employee's job assignment including training of employees to follow relevant good work practices as described in Appendix B of 8 CCR §1532.1;
- The contents of any compliance plan and the location of regulated areas in effect;
- Information informing employees that chelating agents should not routinely be used to remove lead from their bodies and should not be used at all except under the direction of a licensed physician; and
- The employee's right of access to records under 8 CCR §3204.

In addition, the Contractor must ensure that all employees and supervisors who are engaged in lead-related construction work as defined in Title 17, California Code of Regulations, Section 35022, and have been shown to be exposed at or above the permissible exposure limit, meet the training requirements of this section, are trained by an accredited training provider and are certified by the California Department of Health Services.

(Continued on Back)

MEDICAL EXAMINATION: Applicable regulations require that you have a medical examination within the past 12 months and that it be provided at no cost to you. This examination must, at a minimum, include:

- Health history;
- Pulmonary function tests;
- Physical examination that pays particular attention to teeth, gums, and hematological, gastrointestinal, renal, cardiovascular and neurological systems;
- Blood pressure measurement;
- Blood sample - blood lead levels, hemoglobin and hematocrit, red cell indices, peripheral smear, morphology, blood urea nitrogen and serum creatine;
- Routine urinalysis with microscopic examination; and
- May include an evaluation of a chest X-ray

By signing this document you are acknowledging that you have been advised of your rights, as pertain to training and personal protection, and of the worker protection requirements applicable to your employer, the Contractor.

Signature: _____

Social Security No.: _____

Name: _____

Witness: _____

APPENDIX C

MISCELLANEOUS HAZARDOUS MATERIALS

PART 1 - GENERAL

1.1 SUMMARY

1.1.1 Scope of Work: Except as otherwise expressly specified herein, the Contractor will supply all labor, supervision, materials, equipment, tools, services, insurance and each and every item of expense necessary for the removal, handling, management, packaging, transportation and disposal/recycling of miscellaneous hazardous materials present at the site. Miscellaneous hazardous materials work must be performed as specified herein and in compliance with applicable federal, state and local regulations.

1.1.2 Miscellaneous Hazardous Materials: Miscellaneous hazardous materials that are, or may be present at the Site, include but may not be limited to:

- Mercury-containing fluorescent tubes, thermostats and other devices.
- Lighting ballasts that may contain PCBs or Di (2-Ethylhexyl) Phthalate (DEHP).
- Low-level radiation smoke detectors
- Air conditioning unit with ozone depleting chemicals
- Compressors/Generators

1.1.3 Project IH Consultant: The County's Industrial Hygiene Consultant (hereinafter referred to as the "Project IH Consultant") will provide independent, third-party industrial hygiene/hazardous materials consulting services on behalf of the County. It is not the responsibility of the Project IH Consultant to supervise the Contractor; nor to direct the Contractor's work effort; nor to assume the management of, or responsibility for, the Contractor's health and/or safety practices, nor its waste management, nor its regulatory compliance. At all times, the Contractor is solely responsible for the quality and execution of all phases and aspects of the Work.

1.2 SUBMITTALS

1.2.1 General:

1.2.1.1 In addition to any other contractual submittals required of the Contractor, the Contractor will provide the submittals described in this Specification section. Submittals will be reviewed by both the County and the Project IH Consultant for acceptability. The Project IH Consultant will either recommend submittals to the County for acceptance, or will return them to the County as deficient, with notations for correction and re-submission. The Project IH Consultant does not have authority to "approve" submittals.

1.2.2 Schedule And Format:

1.2.2.1 Delivery: Submittals listed in this section must be delivered to the County.

- 1.2.2.2 Quantity: Two (2) identical, legible copies of each submittal listed in this section shall be delivered in an organized fashion suitable to the County for review. One (1) copy will be conveyed by the County to the Project IH Consultant for review.
- 1.2.2.3 Work Commencement: No portion of the Work shall be commenced by the Contractor until the submittals are reviewed and accepted by the County or their designated representative.
- 1.2.2.4 Delays: Delays to the Work resulting from the submittal of deficient or illegible documentation, or from the untimely submittal of potentially acceptable documentation, shall be the sole responsibility of the Contractor. Except as otherwise granted by the County, no extensions will be made to the awarded contract schedule or budget to accommodate such delays.
- 1.2.2.5 Format: Submittals will be provided in 8-1/2" x 11" format, with sections separated by numbered tabs indexed to a printed Table of Contents. Illegible submittals will be considered deficient and returned for correction.
- 1.2.2.6 Pre-work Submittals: Pre-work submittals shall be delivered to the County not less than ten (10) business days prior to the Contractor's mobilization onto the work site. The Project IH Consultant will review submittals and return deficient submittals within five (5) business days following their receipt. Deficient submittals must be resubmitted by the Contractor within five (5) business days after return of review copy. Once accepted, the reviewed copy will be returned to the Contractor, who must maintain a copy of the reviewed submittal at the job site. The following is to be submitted:
 - 1.2.2.6.1 Worker Qualifications: Name and qualifications of each employee to be engaged in handling or removal of materials specified in this Section.
 - 1.2.2.6.2 Technician Certification: The U.S. EPA requires that individuals who perform maintenance, service, repair, or disposal of ODCs be certified in accordance with Section 608 of the Clean Air Act, as amended (Section 608). The Contractor will submit documentation of certification for any technician or subcontractor to be engaged in work covered by Section 608.
 - 1.2.2.6.3 Worker Training: The Contractor shall provide current (within previous 12 months) valid documentation of worker training in accordance with Cal/OSHA Hazardous Waste Operations and Emergency Response (8 CCR §5192, "HAZWOPER") for any workers or subcontractors engaged in work specified in this Section. An exception to this training requirement will be made for workers or subcontractors engaged solely in work involving handling or disposal of ODCs.
 - 1.2.2.6.4 Permits/Licenses: The Contractor is responsible for obtaining any permits or licenses and for making any regulatory notifications required to perform the work of this Section. The Contractor will deliver one (1) copy of all permits, approvals and notifications to the County at least 5 business days before beginning the Work of this Section.

- 1.2.2.6.5 Subcontractors: Submit qualifications and 24-hour contact information for each subcontractor to be used. This shall include two (2) legible copies of federal, state, and/or local business or operating permits, as well as State and/or EPA identification numbers for the waste transporters and disposal facilities to be used.
- 1.2.2.6.6 Waste Hauling Qualifications: Submit proof of hazardous waste transporter's registration and the vehicle operator training. Submittals shall include, but not necessarily be limited to: business name, address (mailing address and physical location), and business telephone number of the company; primary contact name and emergency contact (24-hour) telephone number; documentation of current State and/or EPA authorization to operate; and insurance coverage.
- 1.2.2.6.7 Waste Disposal Facility Qualifications: Submit documentation of the California State and/or EPA-approved waste recycling disposal and/or treatment facilities designated to receive shipments of hazardous and universal wastes generated during this project. Such information will include, but not necessarily be limited to: business name, address (mailing address and physical location), and business telephone number of the facility; primary contact name and emergency contact (24-hour) telephone number; documentation of current State and/or EPA authorization to operate; operator's facility I. D. number; classification and/or types of waste(s) accepted; name, business address and telephone number of insurance provider; documentation of insurance type(s), coverage amounts, and any limitations on liability; and any regulatory agency information pertaining to known citations issued, notices of violations issued, corrective actions ordered, Records of Decisions rendered, or on-going environmental investigations or known liabilities.
- 1.2.2.7 Post-work Submittals: The Contractor will, within 20 business days of demobilization from the Project Site, submit 2 copies of all waste disposal documentation (waste manifests, recycler's or reclaimer's receipts, or other applicable documentation) to demonstrate appropriate material management and disposal. If the Project IH Consultant or County determines that the Post-work Submittals are inadequate and/or require additional unanticipated review time, the Contractor will be required to correct the deficiencies and re-submit them for additional review.

1.3 QUALITY REQUIREMENTS

1.3.1 Reference Standards:

- 1.3.1.1 Regulations: Applicable regulations pertaining to this work include, but are not limited to, the following:
 - 1.3.1.1.1 California Department of Occupational Safety and Health (Cal-OSHA) – General Industry Safety Orders Hazardous Waste Operations and Emergency Response (8 CCR §5192 et. seq.).
 - 1.3.1.1.2 California Health & Safety Code Section 25163(c).

- 1.3.1.1.3 Title 22, California Code of Regulations, Section 66261.24 et. seq.
- 1.3.1.1.4 Title 22, California Code of Regulations, Section 66268.7(a)(4) et. seq.
- 1.3.1.1.5 Title 22, California Code of Regulations, Section 66268.114 et. seq.
- 1.3.1.1.6 California Safe Drinking Water and Toxic Enforcement Act of 1986 (Prop. 65).
- 1.3.1.1.7 Title 22, California Code of Regulations, Division 4.5, Chapter 23 – Universal Waste Rule - California Department of Toxic Substances Control (DTSC).
- 1.3.1.1.8 Title 40, Code of Federal Regulations, Part 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAP). U.S. EPA.
- 1.3.1.1.9 Title 40, Code of Federal Regulations, Part 82, et. seq., Protection of Stratospheric Ozone. U.S. Environmental Protection Agency (U.S. EPA).
- 1.3.1.1.10 Title 40, Code of Federal Regulations, Part 761, et. seq., Polychlorinated Biphenyl (PCBs) Manufacturing, Processing, Distribution in Commerce and Use Prohibitions. U.S. Environmental Protection Agency (U.S. EPA).
- 1.3.1.1.11 Title 49, Code of Federal Regulations, Part 172, U.S. Department of Transportation.
- 1.3.1.1.12 All other applicable Federal, State, and/or Local regulations, codes, and ordinances.
- 1.3.1.2 Applicability. The most current version of each document shall apply. Where conflicts among these specifications exist, the more strict or stringent requirement or interpretation shall apply.

PART 2 - PRODUCTS

SECTION NOT USED

PART 3 - EXECUTION

3.1 PREPARATION

- 3.1.1 Examination of Conditions: The Contractor must carefully examine the work site before beginning work and report any previously undisclosed or special conditions to the County. Except as may be otherwise stipulated elsewhere in the Contract Documents, starting the Work shall be interpreted as implied acceptance of conditions as they exist.

- 3.1.2 Responsibility for Work: By commencing the Work, the Contractor acknowledges and agrees that he has sole and primary responsibility and obligation to the County to make inspections of his own work at all stages of the Work. This includes acknowledging and agreeing that he has sole responsibility to supervise or superintend the performance of the Work, and that said work will be in strict adherence to, and in compliance with, all applicable methods, materials, regulations, and required standards whether or not specified herein. Where conflicts arise between standards or regulations, the more stringent will apply.
- 3.1.3 Coordination of Work: The Contractor is responsible to coordinate all scheduling, phasing, and completion of the Work with the County and all other employers working on the job site. This includes the responsibility to make notifications or communications of hazards to other trades, as required by regulation.
- 3.1.4 Measurements and Quantities: The Contractor is responsible to field verify all measurements, dimensions and quantities before starting the Work. Discrepancies between plan and field dimensions or quantities must be reported to the County as soon as discovered.

3.2 HANDLING AND DISPOSAL OF FLUORESCENT LAMPS & MERCURY CONTAINING DEVICES

- 3.2.1 General: The Contractor is responsible for removing all fluorescent lamps and mercury-containing devices. Fluorescent lamps and mercury-containing devices are to be managed in accordance with the California DTSC's Universal Waste Rule. If fluorescent lamps become broken or damaged during removal and/or handling, broken lamps will be managed as hazardous waste as specified below.
- 3.2.2 The Contractor will manage fluorescent lamps and mercury-containing devices in the following manner:
 - 3.2.2.1 Do not intentionally break or crush fluorescent lamps or damage them in any way. Take all feasible precautions to avoid inadvertent damage to fluorescent lamps.
 - 3.2.2.2 Store intact lamps in a secure area protected from physical damage. Storage areas will be identified with legible signage stating "Universal Waste Area - Spent Fluorescent Lamps" or "Universal Waste Area", as appropriate.
 - 3.2.2.3 Store lamps in packaging or containers that are designed to minimize breakage/damage during both storage and shipping. Label containers as "Universal Waste – Spent Fluorescent Lamps" or "Universal Waste" as appropriate and mark each container with the date on which storage of said waste began.
 - 3.2.2.4 Use a bill of lading that contains the following information when shipping fluorescent lamps to a recycler: name and address of generator, transporter, and recycler; number of lamps shipped; date of shipment and date of receipt by recycler; and obtain a dated signature of the receiving recycler. Deliver a copy of the original "Generator Copy" of the bill of lading to the County at the time lamps or devices are transported off-site.

- 3.2.2.5 Broken fluorescent lamps will be placed in sealed, vapor-tight containers/drums that are compatible with the waste being stored, for disposal as mercury-containing hazardous waste. The waste will be classified as a RCRA characteristic hazardous waste and must be labeled and stored in accordance with all applicable regulations.
- 3.2.2.6 Mercury-containing devices will be placed in sealed, vapor-tight drums (30-gallons or less) for disposal as mercury-containing universal waste and will be classified as characteristic hazardous waste. Mercury-containing devices must not be commingled with other wastes.
- 3.2.2.7 Damaged or leaking mercury-containing devices will be placed in sealed, vapor-tight containers/drums that are compatible with the waste being stored for disposal as mercury-containing hazardous waste. The waste will be classified as RCRA characteristic hazardous waste and must be labeled and stored in accordance with all applicable regulations. The Contractor will inform the Project IH Consultant and the County immediately upon discovery of spilled or released mercury. The Contractor will implement emergency spill containment and confinement measures using booms, barriers and/or absorbent materials, but will obtain and comply with the recommendations of the Project IH Consultant before concluding a mercury clean-up.
- 3.2.2.8 The Contractor will deliver to the County information relating to the transportation and recycling, or disposal of fluorescent lamps, and mercury-containing devices before the start of the Work. This information will include:
 - 3.2.2.8.1 Name and address of fluorescent lamp recycler or dismantler that will accept fluorescent lamps, intact;
 - 3.2.2.8.2 Name and address of the recycler that will accept mercury-containing devices, intact;
 - 3.2.2.8.3 Name and address of the permitted facility that will accept broken fluorescent lamps and/or leaking mercury-containing devices as hazardous waste;
 - 3.2.2.8.4 Copies of applicable authorization letters, licenses, and permits to operate for the facilities, to document that they are permitted to accept the mercury-containing devices and fluorescent lamps and;
 - 3.2.2.8.5 Name and address of the hazardous waste transporter that will transport leaking mercury-containing devices and/or broken fluorescent lamps to a permitted disposal facility, including EPA Identification Number and proof of permit, license, or authorization to transport hazardous waste.
- 3.2.2.9 Further requirements for disposal of leaking or damaged mercury-containing devices and/or broken fluorescent lamps are specified in Section 3.5 below.

3.3 HANDLING AND DISPOSAL OF ODCs AND ODC-CONTAINING EQUIPMENT

- 3.3.1 ODCs (including, but not necessarily limited to, “freon”, chlorofluorocarbons [CFCs], hydrochlorofluoro-carbons [HCFCs] and their blends) from chillers, air conditioners

and/or refrigeration equipment must be evacuated from their units to the vacuum level required by the Environmental Protection Agency (EPA) prior to opening the units and/or transporting the units within the site and/or off-site for disposal.

- 3.3.2 EPA prohibits venting of ODCs to the atmosphere. The Contractor, its employees and subcontractors engaged in handling ODCs will take all feasible precautions to comply with the requirements of Section 608 pertaining to prohibitions on atmospheric venting of ODCs.
- 3.3.3 All Federal, state and local regulations must be complied with when abating ODC-containing devices.
- 3.3.4 Firms who perform ODC removal must be licensed for CFC refrigerant recycling/recovery with the EPA. Technicians who perform ODC removal must be certified for CFC refrigerant recycling/recovery. In addition, all equipment used in the recycling/recovery process must have a current EPA Registration. Evidence of such licensing, certification and registration must be submitted with the Contractor's Pre-Work submittals.
- 3.3.5 The Contractor must send reclaimed refrigerant to an EPA-certified refrigerant reclaimer and must provide: name and address of transporter and refrigerant reclaimer; amount of refrigerant recovered and shipped; and, date of shipment and date of receipt by reclaimer.

3.4 HANDLING AND DISPOSAL OF BALLASTS CONTAINING PCBs OR DEHP

- 3.4.1 Prior to the removal of any lighting fixture, the Contractor will disassemble the fixture and inspect it for labeling indicating the absence or presence of PCBs in the ballast. All "T-8 type" ballasts and all ballasts designated on the label as 'No PCBs' must be recycled at a facility that is approved by the County. Unless labeled to the contrary, all other light fixture ballasts will be assumed to contain PCBs and will be managed accordingly. DEHP-containing ballasts shall be managed the same as PCB-containing ballasts.
- 3.4.2 Fixture disassembly and removal will be performed using approved methods and tools that will minimize damage to the fluorescent lamp and ensure a removal with the ballast intact and undamaged.
- 3.4.3 Once removed, PCB-containing ballasts and assumed PCB-containing ballasts must be placed in a labeled, leak-tight disposal container.
- 3.4.4 Once filled, the disposal container will be closed and properly labeled for temporary storage, transport, and disposal in accordance with all applicable regulations.
- 3.4.5 The Contractor will submit to the County written confirmation from the disposal/recycling facility stating which type of ballasts they will accept.
- 3.4.6 All drums containing PCB ballasts must be transported to an EPA-approved disposal/recycling facility.

- 3.4.7 Disposing of PCB-containing ballasts in landfills is prohibited by federal and state law. Drums containing PCB ballasts and other PCB-contaminated materials will be disposed of, recycled or otherwise treated at an EPA-approved facility. The Contractor will submit documentation verifying removal, transportation, and disposal/recycling at the approved facility.
- 3.4.8 Drums containing “Non-PCB” fluids, ballasts or capacitors must be disposed of at a legally permitted disposal/recycling facility. Contractor will submit documentation verifying removal, transportation, and disposal at the approved disposal/recycling facility.
- 3.4.9 Upon completion of the disposal of PCB-containing ballasts and/or other PCB-contaminated materials, the Contractor will deliver the following to the County:
 - 3.4.9.1 Written certification from the disposal facility that the items being disposed of were delivered to, accepted, and destroyed by the disposal facility. Certificate must be signed by the person authorized by the disposal facility to accept PCB items for disposal.
 - 3.4.9.2 Copies of all waste manifests.
 - 3.4.9.3 Certificates of Destruction of Materials.

Further requirements for storage and management of PCB-containing ballasts and/or other PCB-contaminated materials are specified in Section 3.5 below.

3.5 WASTE MANAGEMENT AND DISPOSAL

- 3.5.1 General: The Contractor is responsible for the safe handling, storage and transportation of all hazardous waste generated by the Work. By commencing this work, the Contractor implicitly agrees to bear all costs arising from any claims, damages, losses, and/or clean-up expenses incurred which, as a result of the Contractor’s negligence, result from a hazardous waste spill(s) or release(s) on the job-site and/or while hazardous waste is in transport to a waste disposal facility. The Contractor or its designated subcontract waste hauler will deliver all waste materials to an appropriately designated waste disposal facility that is acceptable to the County and which is permitted in accordance with applicable regulations.
- 3.5.2 Storage Facilities: The Contractor will assure that all waste (hazardous and non-hazardous) generated by the Work is stored in a secured manner until received at the waste disposal facility. Debris bins, storage enclosures, etc. will be locked overnight and whenever the Contractor is off-site or unable to directly monitor their contents and management. The Contractor will ensure that the appropriate and required warning signs are posted on waste storage locations. The Contractor will be responsible to maintain the waste storage facilities in an orderly and well-kept condition at all times. The Contractor will conduct routine waste storage area inspections to assure that appropriate storage conditions are maintained. Waste is not to be co-mingled with stored non-waste material or equipment.

- 3.5.3 Off-site Shipment of Wastes: The Contractor will notify the County and the Project IH Consultant in advance, whenever hazardous waste is to be removed from the site. A copy of the Uniform Hazardous Waste Manifest or any other documents required by Federal, State or Local agencies shall be completed by the Contractor and submitted to the Project IH Consultant for review and signature prior to transporting hazardous waste materials to a disposal facility. The Contractor shall provide sufficient advance notice of the need to obtain manifest signatures, so as to not delay waste shipment or otherwise impede the project schedule. The Project IH Consultant has the authority to sign or approve waste shipping documents on behalf of the County. It is the Contractor's responsibility to obtain the necessary authorized signatures to ship wastes off-site. The original "Generator" copies of all manifests and waste documents will be given to the County or the Project IH Consultant at the time the waste is transported off-site. Delays or expenses resulting from the untimely coordination of waste shipment documentation shall be borne by the Contractor.
- 3.5.4 Waste Shipment Documentation: EPA Uniform Hazardous Waste Manifest forms will be used for all waste transported off-site for hazardous waste disposal. A non-hazardous waste Bill of Lading will be used for all waste transported off-site for disposal or recycling as non-hazardous waste. At the conclusion of the Work, the Contractor will provide documentation that the wastes were managed and disposed of appropriately. The documentation will be submitted as part of the Post-Job Submittals.
- 3.5.5 Shipment Containers: All waste shipping containers must be individually labeled with appropriate signage and warnings, as required by applicable regulations, codes and ordinances. All waste hauling vehicles and/or waste debris bins must, at all times, be enclosed and sealed while in transport to the disposal facility.

END OF SECTION

Alameda County General Services Agency
Nike Site Hazardous Materials Abatement and Demolition
2892 Fairmont Drive, San Leandro, CA

Project No. 18014-19170.0

APPENDIX D

**Limited Asbestos and Lead Survey, Former Nike Missile Site, 2892 Fairmont
Drive, San Leandro, California, May 16, 2018**

Limited Asbestos and Lead Survey

Former Nike Missile Site

Multiple Structures

2892 Fairmont Drive

San Leandro, California

May 16, 2018

Terracon Project No. R1187351

Prepared for:

County of Alameda

Oakland, California

Prepared by:

Terracon Consultants, Inc.

Emeryville, CA



Prepared by: William Frieszell

Senior Industrial Hygienist

CAC #12-4853, CDPH Lead I/A #23815

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Limited Asbestos and Lead Survey Report

*Former Nike Missile Site
Multiple Structures
2892 Fairmont Drive
San Leandro, California*

1. Executive Summary

The following is a summary report for the limited asbestos and lead survey conducted by Terracon Consultants, Inc. (Terracon) of four (4) structures at the former Nike Missile Site located at 2892 Fairmont Drive in San Leandro, California. All survey activities were conducted by Remington Caldwell, Certified Asbestos Consultant (CAC) and California Department of Public Health (CDPH) Lead Inspector/Assessor with Terracon. Survey activities were conducted on April 19, 2018. It should be noted that this survey was conducted in order to supplement a previous sampling event, which occurred on October 12, 2017. Data from each of the referenced events have been compiled within this report.

The referenced site consists of multiple buildings, four of which were included and sampled during the course of Terracon's survey efforts. It should be noted that the purpose of this survey was to identify materials within the affected areas that may be impacted by pending planned renovation and demolition projects scheduled to occur at the property. The areas included in this survey are as follows:

- Building B
- Building C
- Building D
- Guard Shack

A total of forty-three (43) suspect asbestos containing materials (ACMs) were identified and sampled throughout the former Nike Missile Site. Of the materials sampled, fourteen (14) were confirmed be positive for asbestos content in concentrations exceeding the laboratory limit of detection. Confirmed and assumed asbestos containing materials were noted to be present in each of the buildings included within the survey.

Sixteen (16) painted surfaces and four (4) bulk materials were sampled for potential lead content during the survey. All of these items were found to contain lead in concentrations in exceedance of the laboratory detection limit. Of the confirmed lead containing paints, nine (9) were reported at concentrations exceeding the current regulatory threshold of five thousand parts per million, which signifies the presence of lead based paints.

Although Terracon completed a visual inspection for the presence of sealants suspected to contain polychlorinated biphenyls (PCBs), no such materials could be identified at building exterior areas. These materials are not addressed any further with regards to the scope of this report.

2. Scope of Work

The scope of the survey was as follows:

- Inspect the four (4) listed buildings of the subject site for the presence of suspect ACMs and lead-containing paint.
- Collect samples of suspect ACMs following a National Emissions Standards for Hazardous Air Pollutants (NESHAPS) protocol for sample collection for a demolition survey. The extent of destructive testing was limited due to building occupancy during the survey.
- Asbestos bulk samples will be analyzed using polarized light microscopy (PLM) in accordance with the EPA's July 1993 method for the determination of asbestos in bulk building materials - EPA 600/R-93/116.
- Collect bulk paint chip samples of primary painted surfaces and other materials suspected to be lead containing. Bulk samples will be analyzed at an accredited laboratory by Flame Atomic Absorption (AA) for Total Lead reported in parts per million (ppm).
- Submit a written report including analytical results, regulatory requirements and conclusions.

3. Methods and Sampling Strategy

Visual Inspection of Building Materials

Accessible building materials on the interior and exterior of each of the four (4) listed structures were visually inspected using the methods presented in the federal Asbestos Hazard Emergency Response Act (AHERA) regulations (40 CFR, Part 763) as a guideline. AHERA was originally only applicable to schools, however State and Federal Occupational Safety and Health Administration (OSHA) and Asbestos School Hazard Abatement Reauthorization Act (ASHARA) have adopted the AHERA sampling methodology for all buildings subject to demolition or renovation.

Bulk Sampling of Asbestos

Bulk samples were collected of accessible homogeneous suspect ACMs that were identified within affected areas of the four (4) referenced buildings associated with the site.

A homogeneous material is defined as a surfacing material, thermal system insulation, or miscellaneous material that is uniform in color, size, texture and age of construction. Examples of homogeneous materials include:

- Pipe-insulation produced by the same manufacturer and installed during the same time period;
- Resilient flooring of identical color and pattern;
- Troweled on surfacing materials located in contiguous areas.

The survey area was visually inspected for the presence of suspect materials. As materials were identified, bulk samples were obtained with the aid of a coring device or other hand tool and placed into individual sampling bags. Each sample was given a discreet identification number and recorded on field notes as well as chain-of-custody forms. Refer to accompanying tables and appendices for details on material sample locations and results.

Bulk Sample Analysis - Asbestos

Bulk samples were analyzed by AsebestosTEM Laboratory in Berkeley, California and EMLab P&K in Phoenix, Arizona. These labs are accredited under the National Institute of Standards and Technology's National Voluntary Laboratory Accreditation Program (NVLAP).

When None Detected (ND) appears in this report, it should be interpreted as meaning no asbestos was observed in the sample material above the reliable limit of detection for the PLM method.

Note: Under EPA assessment criteria, if a single sample of a homogeneous material tests positive for asbestos, all areas of that homogeneous material are considered to be asbestos containing.

Bulk Sampling of Lead Paint and Suspect Bulk Materials

Paint chip and bulk samples were collected using a hand scraper or chisel and were placed into individual plastic sampling containers. Each sample was provided a discreet sample number, which was recorded on a chain-of-custody form. The samples were transported under chain-of-custody procedures to AsbestosTEM Laboratory in Berkeley, California or QuanTEM Laboratories in Oklahoma City, Oklahoma. Please refer to Table III for details on sample locations and sample results. Paint chip samples were analyzed for lead content using Flame Atomic Absorption spectroscopy in accordance to EPA Method SW846-7000B. Bulk ceramic tile glazing samples were analyzed for Total Threshold Limit Concentration (TTLC) for lead by EPA Method SW-846.

4. Asbestos Results

A total of forty-three (43) suspect asbestos containing materials (ACMs) were identified and sampled throughout the interior and exterior areas of each of the four (4) affected structures during the survey.

- Ten (10) materials were identified in association with Building B
- Ten (10) materials were identified in association with Building C
- Sixteen (16) materials were identified in association with Building D
- Seven (7) materials were identified in association with the Guard Shack

Upon laboratory analysis using polarized light microscopy techniques, a total of fourteen (14) of the materials sampled were reported to contain asbestos in concentrations exceeding the laboratory method limit of detection. Confirmed ACMs were present within each of the four (4) structures surveyed.

- Two (2) confirmed ACMs were reported in association with Building B
- Three (3) confirmed ACMs were reported in association with Building C
- Eight (8) confirmed ACMs were reported in association with Building D
- One (1) confirmed ACM was reported in association with the Guard Shack

The confirmed asbestos containing materials are listed in Table I below.

TABLE I
ASBESTOS-CONTAINING MATERIALS

Material Description	General Material Locations	Waste Category	Asbestos Type
Building B			
Floor Tile System - 9" Green/Black Interspersed Tiles with Black Mastic	Material is Present throughout Building B	Cat. II	Green Tile: 1-5% Chrysotile Black Tile: 1-5% Chrysotile Black Mastic: ND
Roof Penetration Mastic - Silver	Material is Sporadically Present throughout the Roofing Level of Building B	Cat. I	2% Chrysotile
Building C			
Floor Tile System - 9" Green/Black Interspersed Tiles with Black Mastic	Material is Present throughout Building C	Cat. II	Green Tile: 5% Chrysotile Black Tile: 5% Chrysotile Black Mastic: 5% Chrysotile
Roof Patching Mastic - Grey/Silver	Material is Sporadically Present throughout the Roofing Level of Building C	Cat. I	10% Chrysotile
Roof Flashing System - Black	Material is Sporadically Present throughout the Roofing Level of Building C	Cat. I	15% Chrysotile
Building D			
Drywall and Joint Compound - Smooth	Material is Present throughout Wall Systems in Building D	RACM	Drywall: ND Joint Compound: 5% Chrysotile
Drywall and Joint Compound - Textured	Material is Present throughout Wall Systems in Building D	RACM	Drywall: ND Joint Compound: 5% Chrysotile
Drywall Texturing Material	Material is Present throughout Wall Systems in Building D	RACM	5% Chrysotile
Floor Tile System - 9" Black Tile with Black Mastic over White Tile	Material is Present throughout Building D	Cat. II	Green Tile: 5% Chrysotile White Tile: 5% Chrysotile Black Mastic: 5% Chrysotile
Floor Tile System - 9" Red Tile with Black Mastic	Material is Limited to Western Room of Building D	Cat. II	Red Tile: 5% Chrysotile Black Mastic: 5% Chrysotile
Wooden Wall Paneling Mastic - Black	Material is Limited to Wall Systems in the Northern Room of Building D	Cat. II	5% Chrysotile
Transite Paneling Material - Grey	Material is Present throughout Exterior and Restroom Areas of Building D	Cat. II	40% Chrysotile
Roof Patching Mastic - Grey/Silver	Material is Sporadically Present throughout the Roofing Level of Building D	Cat. I	10% Chrysotile

Material Description	General Material Locations	Waste Category	Asbestos Type
Guard Shack			
Roof Patching Mastic - Black/Grey	Material is Sporadically Present throughout the Roofing Level of the Guard Shack	Cat. I	10% Chrysotile

NA = Not Applicable, lf = linear feet, sf = square feet, RACM = Regulated asbestos containing material (friable), Cat. I = Non-friable (note ACM must be reclassified as a RACM if rendered friable during removal), Cat. II = Category II Non-friable (note ACM must be reclassified as a RACM if rendered friable during removal)

Twenty-nine (29) suspect materials were sampled throughout the former Nike Missile Site, but were not reported to contain asbestos in detectable quantities during the survey. The non-asbestos containing materials and sampling locations are listed in Table II below.

TABLE II
NON-ASBESTOS CONTAINING MATERIALS

Material Description	Material Location
Building B	
Window Caulking Material - Beige	Throughout Exterior Window Frame Assemblies at Building B
Fiberboard Ceiling System - Brown	Throughout Ceiling Systems of Building B
Fiberglass Batting Insulation/Moisture Barrier	Throughout Ceiling Systems of Building B
CMU Block Mortar - Grey	Throughout Wall Systems of Building B
Wood Paneling Adhesive - Brown	Material is Present at Limited Wall Systems of Building B
Moisture Barrier Paper - Black	Material observed at Wooden Barrier Wall between Building B and Addition
Concrete Slab Material - Grey	Material is Present throughout Foundation Slab of Building B
Main Roofing Field System - Tar and Gravel	Material is Present throughout Roofing System of Building B
Building C	

Material Description	Material Location
Exterior Mortar Material - Grey	Material is Present throughout Exterior Wall Systems of Building C
Ceiling Tile System - 1' White Tile with Brown Adhesive	Material is Present throughout Ceiling Systems within the Northern Office Space of Building C
Window Putty Material - Grey/Beige	Material is Present throughout Exterior Window Assemblies of Building C
Window Caulking Material - Beige	Material is Present throughout Exterior Window Assemblies of Building C
Concrete Slab Material - Grey	Material is Present throughout Foundation Slab of Building C
Main Roofing Field System - Tar and Gravel	Material is Present throughout Roofing System of Building C
Roofing Patch Material - Black Asphaltic Mastic on Fiberboard	Material is Sporadically Present throughout Lower Roofing System of Building C
Building D	
Window Caulking Material - Beige	Material is Present throughout Window Assemblies of Building D
Exterior CMU Block Mortar - Grey	Material is Present throughout Exterior Wall Systems of Building D
Concrete Slab Material - Grey	Material is Present throughout Foundation Slab of Building D
Cove Base Adhesive - Brown on 3" Red Cove	Material is Present throughout Limited Wall Systems in Building D
Wood Wall Paneling Adhesive - Tan	Material is Present throughout Limited Wall Systems in Building D
Roofing Field System - Tar and Gravel	Material is Present throughout Roofing System of Building D
Roofing Field System - Green Rolled Composite Shingling	Material is Present throughout Limited Roofing System Sections of Building D
Roofing Field System - Black Rolled Composite Shingling	Material is Present throughout Limited Roofing System Sections of Building D
Guard Shack Area	

Material Description	Material Location
Ceiling Tile - 1' Spline in System, Grey	Material is Present throughout Guard Shack Area Ceiling Systems
Unfinished Drywall Wall Systems	Material is Present throughout Guard Shack Area Wall Systems
Window Caulking Material - Grey	Material is Present throughout Guard Shack Area Window Assemblies
Roofing Field System - Tar and Gravel	Materials is Present throughout Guard Shack Area Roofing System
Exterior CMU Block Mortar - Grey	Material is Present throughout Exterior Wall Systems of the Guard Shack
Concrete Slab Material - Grey	Material is Present throughout Foundation Slab of the Guard Shack

It should be noted that, it is possible that additional materials, including but not limited to, abandoned mechanical systems, subsurface vapor barrier systems, window framing rough in mastic, and various others may be present behind or beneath finishes that could not be selectively demolished during the survey. Only the materials specifically mentioned in this report have been identified and sampled by Terracon. Any other material discovered during the course of construction activities should be assumed to contain asbestos and treated accordingly until proven otherwise through appropriate sampling and analytical techniques. Allowances for the discovery of these materials should be considered during project budgeting.

5. Lead Results

Sixteen (16) painted surfaces and four (4) bulk materials were sampled for potential lead content during the survey. All of these items were found to contain lead in concentrations in exceedance of the laboratory detection limit. Of the confirmed lead containing paints, nine (9) were reported at concentrations exceeding the current regulatory threshold of five thousand parts per million, which signifies the presence of lead based paints. The laboratory results for lead testing are summarized in Table III below.

**TABLE III
LEAD SAMPLE RESULTS**

Sample Number	Material Description and Location	Results mg/kg (ppm)
Building B		
B-Pb-1	Grey Paint on CMU Block Exterior Wall System at Building B Southern Side	12,000
B-Pb-2	Green Paint on Metal Exterior Wall System at Building B Addition Northern Wall	4,500
B-Pb-3	Window Caulking Material at Building B Exterior Western Side	140
B-Pb-4	Tan Paint on Metal Pole at Building B	23,000
B-Pb-5	Green Paint on CMU Block Interior Wall System at Building B	6,100
Building C		
Nike-2-Pb-01	Light Green Paint on Metal HVAC Curbing at Building C Roof Level	74,100
C-Pb-1	Green Paint on CMU Block Exterior Wall System at Building C Western Side	4,100
C-Pb-2	Green Paint on CMU Block Interior Wall System at Building C Northern Office Area	1,100
C-Pb-3	Red Paint on Concrete Flooring at Building C Large Room Area	1,600
C-Pb-4	Window Glazing Material on Metal Window Frame at Building C Northern Side	4,100
C-Pb-5	Yellow Paint on Metal Flooring Plates at Building C Trench Coverings	21,000
Building D		
Nike-1-Pb-01	Light Green Paint on Wooden Eave at Building D Exterior	5,880
D-Pb-1	Green Paint on CMU Block Exterior Wall System at Building D Eastern Side	8,200

Sample Number	Material Description and Location	Results mg/kg (ppm)
D-Pb-2	Light Red Paint on CMU Block Interior Wall System at Building D Southern Room Area	7,100
D-Pb-3	Green Paint on CMU Block Interior Wall System at Building D Northern Room Area	1,600
D-Pb-4	Peach Paint on Drywall Wall System at Building D Western Room Area	8,000
D-Pb-5	Window Caulking Material at Building D Southern Room Area	4,700
Guard Shack Area		
X-Pb-1	Green Paint on CMU Block Exterior Wall System at Guard Shack Area Northern Side	4,200
X-Pb-2	Light Red Paint on Drywall Wall System at Guard Shack Area Interior	3,800
X-Pb-3	Window Caulking Material on Wooden Window Frame Assembly at Guard Shack Area Northern Side	9,700

mg/kg= Milligram per kilogram, ppm = parts per million, ND< = Not Detected

6. Conclusions and Recommendations

Based upon the survey results, Terracon concludes the following:

- Fourteen (14) of the forty-three (43) materials sampled during the course of the survey were reported to contain asbestos in concentrations exceeding the laboratory method limit of detection.
- Asbestos was reported within each of the four (4) structures included within the scope of the survey. Asbestos was identified in multiple material types, including resilient flooring systems, drywall wall systems and texturing materials, wall paneling adhesives, transite paneling and in roofing mastics.
- If additional suspect materials that have not been characterized as ACM or non-ACM in this report are discovered during construction related processes, these materials should be assumed to contain asbestos and be treated accordingly until proven otherwise by appropriate sampling and laboratory analysis.
- Lead was detected above the laboratory detection limit in all of the fourteen (14) of the samples collected, including various paints and window caulking materials. Nine (9) of the painted surfaces were found to contain lead in concentrations exceeding 5,000 parts per million the threshold for lead based paint.

7. Regulatory Requirements

Asbestos

Impacting materials containing greater than 0.1% asbestos either through repair, maintenance, or demolition activities triggers numerous regulations enforced by such agencies as OSHA (worker protection) and EPA (environmental exposure, transportation and disposal).

Listed below are the regulations that apply if the materials are removed:

- Any individual who contracts to provide health and safety services relating to ACMs must be certified by Cal-OSHA as either a Certified Asbestos Consultant or a Site Surveillance Technician. The activities they are certified to provide include: conducting asbestos surveys; writing work plans or specifications for abatement; monitoring the work of abatement contractors; collecting air samples; and determining if the work area is safe for re-occupancy by non-asbestos workers. Regulation: Cal-OSHA 8 CCR 1529 (q)(1).
- If more than 100 square feet of materials that contain greater than 0.1% asbestos will be abated, the materials must be abated by a Cal-OSHA registered asbestos abatement contractor. Regulation: Cal-OSHA 8 CCR 1529 (R).
- ACMs that are classified by OSHA as surfacing materials are present. Removal of surfacing materials is considered a Class I activity according to Cal-OSHA regulations. Work practices and engineering controls for Class I work are specified in Cal-OSHA 8 CCR 1529 (g) (4-6).
- ACMs that are classified by OSHA as other/miscellaneous materials are present. Removal of these materials is considered a Class II activity according to Cal-OSHA regulations. Work practices and engineering controls for Class II work are specified in Cal-OSHA 8 CCR 1529 (g) (7-8).
- Removal of friable ACMs greater than 100 square feet or 100 linear feet requires notification of the Bay Area Air Quality Management District ten (10) working days in advance of intended removal.
- Friable ACMs greater than 1% asbestos must be manifested, transported, and disposed of as hazardous waste in accordance with the Department of Toxic Substances Control (DTSC), a division of Cal-EPA. DTSC regulates disposal of asbestos waste. DTSC issues U.S. EPA hazardous waste generator identification numbers.

Lead

Impacting lead materials or lead-containing paint either through repair, maintenance, renovation or demolition activities triggers numerous regulations enforced by such agencies as OSHA (worker protection), EPA (environmental exposure, transportation and disposal), and Department of Public Health (DPH).

Listed below are the lead paint regulations that apply if the paint or window sealants are removed:

- There are presently no federal, state or local regulations limiting the concentration of lead in public sector buildings, however several regulations established for the private sector as well as for government subsidized housing are used industry wide as guidelines for assessing exposure to lead. The Consumer Product Safety Commission (CPSC) has set a maximum limit of 90 ppm in paint used for residential purposes. The Department of Housing and Urban Development (HUD) requires abatement of lead hazards involving paint in concentrations exceeding 5,000 ppm.
- Proper waste stream categorization is required for the disposal of all lead containing materials and painted construction debris with total lead content that exceeds 50 ppm. The debris should be classified as hazardous waste if lead waste concentrations exceed either the total lead concentration or soluble lead concentration regulatory limits. Total lead concentration is determined by Total Threshold Limit Concentration (TTLC). Soluble or leachable lead is determined by the Soluble Threshold Limit Concentration (STLC, California required test) and/or Toxicity Characteristic Leaching Procedure (TCLP) (Federal EPA required test). Regulatory limits characterize a lead waste as a hazardous waste if lead concentrations exceed 1,000 ppm by TTLC or 5 milligram per liter by STLC or TCLP.
- Federal OSHA as well as California OSHA regulates all worker exposure during construction activities that impact lead-containing paint. California OSHA enforces the Lead in Construction Standard in Title 8 CCR 1532.1. The scope covers construction work where employees may be exposed to lead during such activities as demolition, removal, surface preparation for re-painting, renovation, clean-up and routine maintenance. The OSHA specified method of compliance includes respiratory protection, protective clothing and equipment, housekeeping, hygiene facilities, medical surveillance, and training, among other requirements.

8. Limitations

Terracon Consultants, Inc. warrants that the findings contained herein have been prepared in general accordance with accepted professional practices as applied by similar professionals in the community at the time of its preparation. Changes in the state of the art or in applicable regulations cannot be anticipated and have not been addressed in this report.

Every effort was made to access building materials throughout each affected building, however only limited destructive testing was completed during the survey due to client request. Suspect materials may be present in wall cavities, above ceilings and beneath flooring that could not be accessed at the time of the survey. In the event that additional materials not listed in this report are uncovered during demolition, these materials should be assumed hazardous and may contain asbestos until suitably proven otherwise.

It is possible that additional materials, including but not limited to, abandoned mechanical systems, subsurface vapor barrier systems, window framing rough in mastic, and various others may be present behind or beneath finishes that could not be selectively demolished during the survey. Allowances for the discovery of these materials should be considered during project budgeting.

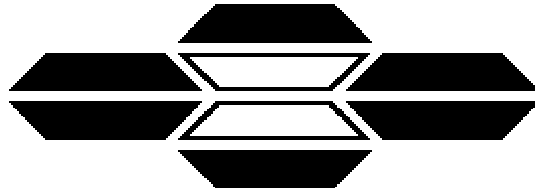


The field and laboratory results reported herein are considered sufficient in detail and scope to determine the presence of ACMs and lead containing materials identified therein. Also, note that this is a survey report and not an abatement specification. This document is not appropriate for competitive bidding or for use as an asbestos or lead abatement specification.



Appendix 1:

Laboratory Results and Chains of Custody - Asbestos



ASBESTOS TEM LABORATORIES, INC.

EPA Interim Method Polarized Light Microscopy Analytical Report

Laboratory Job # 357343

600 Bancroft Way, Ste. A
Berkeley, CA 94710
(510) 704-8930
FAX (510) 704-8429
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With Branch Offices Located At:

1350 FREEPORT BLVD. UNIT 104, SPARKS, NV 89431
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ASBESTOS TEM LABORATORIES, INC

CA DPH ELAP
Lab No. 1866



NVLAP Lab Code: 101891-0
Berkeley, CA

Apr-26-18

W. Frieszell
Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

RE: LABORATORY JOB # 357343

Polarized light microscopy analytical results for 24 bulk sample(s) with 7 sample split(s)

Job Site: Nike Missile Site, Bldg B(3), 2892 Fairmont Dr, San Leandro

Job No.: R1187351

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with EPA Method 600/R-93/116 or 600/M4-82-020 for the determination of asbestos in bulk building materials by polarized light microscopy (PLM). Please note that while PLM analysis is commonly performed on non-friable and fine grained materials such as floor tiles and dust, the EPA method recognizes that PLM is subject to limitations. In these situations, accurate results may only be obtainable through the use of more sophisticated and accurate techniques such as transmission electron microscopy (TEM) or X-ray diffraction (XRD).

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Each sample is opened in a class 100 HEPA negative air hood. A representative sampling of the material is selected and placed onto a glass microscope slide containing a drop of refractive index oil. The glass slide is placed under a polarizing light microscope where standard mineralogical techniques are used to analyze and quantify the various materials present, including asbestos. The data is then compiled into a standard report format and reviewed by the authorized signatory before being released to the client.

Sincerely Yours,

Lab Manager
ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, with the approval of the laboratory. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. ---

Note: Test samples will be stored for three months after data of receipt, after which they will be properly disposed unless client makes other arrangements with the laboratory.

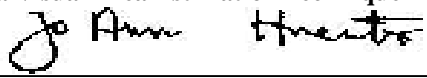
POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 1 of

Contact: W. Frieszell		Samples Indicated: 24	Report No. 357343
Address: Terracon Consultants, Inc.		Reg. Samples Analyzed: 24	Date Submitted: Apr-19-18
1466 66th Street		Split Layers Analyzed: 7	Date Reported: Apr-26-18
Emeryville, CA 94608		Job Site / No. Nike Missile Site, Bldg B(3), 2892 Fairmont Dr, San Leandro R1187351	
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA	DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD LAB
B-1A	1-5% Chrysotile	1)None Detected 2)95-99% Calc, Bndr	9" Black vft + black mastic and 9" green uft black mastic. Bldg B(3) - Main Bldg
Lab ID # 1434-03374-001A		3)Apr-19-18 4) Apr-26-18	Floor Tile-Green
B-1A	None Detected	1)None Detected 2)99-100% Tar	9" Black vft + black mastic and 9" green uft black mastic. Bldg B(3) - Main Bldg
Lab ID # 1434-03374-001B		3) 4) Apr-26-18	Mastic-Black
B-1B	1-5% Chrysotile	1)None Detected 2)95-99% Calc, Bndr	9" Black vft + black mastic and 9" green uft black mastic. Bldg B(3) - Main Bldg
Lab ID # 1434-03374-002A		3) Apr-19-18 4) Apr-26-18	Floor Tile-Black
B-1B	None Detected	1)None Detected 2)99-100% Tar	
Lab ID # 1434-03374-002B		3) 4) Apr-26-18	Mastic-Black
B-1B	1-5% Chrysotile	1)None Detected 2)95-99% Calc, Bndr	
Lab ID # 1434-03374-002C		3) 4)Apr-26-18	Floor Tile-Green
B-1B	None Detected	1)None Detected 2)99-100% Tar	
Lab ID # 1434-03374-002D		3) 4) Apr-26-18	Mastic-Black
B-1C	1-5% Chrysotile	1)None Detected 2)95-99% Calc, Bndr	9" Black vft + black mastic and 9" green uft black mastic. Bldg B(3) - Addition
Lab ID # 1434-03374-003A		3) Apr-19-18 4)Apr-26-18	Floor Tile-Black
B-1C	None Detected	1)None Detected 2)99-100% Tar	
Lab ID # 1434-03374-003B		3) 4)Apr-26-18	Mastic-Black
B-1C	1-5% Chrysotile	1)None Detected 2)95-99% Calc, Bndr	
Lab ID # 1434-03374-003C		3) 4)Apr-26-18	Floor Tile-Green
B-1C	None Detected	1)None Detected 2)99-100% Tar	
Lab ID # 1434-03374-003D		3) 4)Apr-26-18	Mastic-Black

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst 

ASBESTOS TEM LABORATORIES, INC.
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With Offices in Reno, NV (775) 359-3377

POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 2 of

Contact: W. Frieszell Address: Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608		Samples Indicated: 24 Reg. Samples Analyzed: 24 Split Layers Analyzed: 7 Job Site / No. Nike Missile Site, Bldg B(3), 2892 Fairmont Dr, San Leandro R1187351		Report No. 357343 Date Submitted: Apr-19-18 Date Reported: Apr-26-18	
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SAMPLE ID	%	ASBESTOS TYPE	OTHER DATA	DESCRIPTION
			1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD <hr/> LAB
B-2A Lab ID # 1434-03374-004		None Detected	1) None Detected	Window caulk. Bldg B(3) - 1 Door
			2) 99-100% Calc. Opq	
			3) Apr-19-18	4) Apr-26-18
B-2B Lab ID # 1434-03374-005		None Detected	1) None Detected	Window caulk. Bldg B(3) - 1 Door
			2) 99-100% Calc. Opq	
			3) Apr-19-18	4) Apr-26-18
B-2C Lab ID # 1434-03374-006		None Detected	1) None Detected	Window caulk. Bldg B(3) - 1 Door
			2) 99-100% Calc. Opq	
			3) Apr-19-18	4) Apr-26-18
B-3A Lab ID # 1434-03374-007		None Detected	1) 99-100% Cellulose	Brown fiber board. Bldg B(3) - Additional ceiling.
			2) None Detected	
			3) Apr-19-18	4) Apr-26-18
B-3B Lab ID # 1434-03374-008		None Detected	1) 99-100% Cellulose	Brown fiber board. Bldg B(3) - Additional ceiling.
			2) None Detected	
			3) Apr-19-18	4) Apr-26-18
B-3C Lab ID # 1434-03374-009		None Detected	1) 99-100% Cellulose	Brown fiber board. Bldg B(3) - Additional ceiling.
			2) None Detected	
			3) Apr-19-18	4) Apr-26-18
B-4A Lab ID # 1434-03374-010		None Detected	1) 99-100% Cellulose	Fiberglass Batt - vapor barrier. Bldg B(3) - Additional - Over fiberboard ceiling (Falling down)
			2) None Detected	
			3) Apr-19-18	4) Apr-26-18
B-4B Lab ID # 1434-03374-011		None Detected	1) 99-100% Cellulose	Fiberglass Batt - vapor barrier. Bldg B(3) - Additional - Over fiberboard ceiling (Falling down)
			2) None Detected	
			3) Apr-19-18	4) Apr-26-18
B-4C Lab ID # 1434-03374-012		None Detected	1) 99-100% Cellulose	Fiberglass Batt - vapor barrier. Bldg B(3) - Additional - Over fiberboard ceiling (Falling down)
			2) None Detected	
			3) Apr-19-18	4) Apr-26-18
B-5A Lab ID # 1434-03374-013		None Detected	1) None Detected	CMU mortar - Grey. Bldg B(3) - Exterior - S.E corner
			2) 99-100% Opq. Qtz	
			3) Apr-19-18	4) Apr-26-18

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst

ASBESTOS TEM LABORATORIES, INC.
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POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: **3** of

Contact: W. Frieszell		Samples Indicated: 24	Report No. 357343
Address: Terracon Consultants, Inc.		Reg. Samples Analyzed: 24	Date Submitted: Apr-19-18
1466 66th Street		Split Layers Analyzed: 7	Date Reported: Apr-26-18
Emeryville, CA 94608		Job Site / No. Nike Missile Site, Bldg B(3), 2892 Fairmont Dr, San Leandro R1187351	
SAMPLE ID	ASBESTOS TYPE	OTHER DATA	DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD LAB
B-5B	None Detected	1)None Detected 2)99-100% Opq, Qtz	CMU mortar - Grey. Bldg B(3) - Exterior - S.W corner
Lab ID # 1434-03374-014		3) Apr-19-18 4) Apr-26-18	Mortar-Grey
B-5C	None Detected	1)None Detected 2)99-100% Opq, Qtz	CMU mortar - Grey. Bldg B(3) - Exterior - N.W corner
Lab ID # 1434-03374-015		3) Apr-19-18 4) Apr-26-18	Mortar-Grey
B-6A	None Detected	1)None Detected 2)99-100% Glue	Wood panel glue - Brown. B(3) - Interior wood panel & furred out strip North wall
Lab ID # 1434-03374-016		3) Apr-19-18 4) Apr-26-18	Glue-Brown/Yellow
B-6B	None Detected	1)None Detected 2)99-100% Glue	Wood panel glue - Brown. B(3) - Interior wood panel & furred out strip North wall
Lab ID # 1434-03374-017		3) Apr-19-18 4) Apr-26-18	Glue-Brown/Yellow
B-6C	None Detected	1)None Detected 2)99-100% Glue	Wood panel glue - Brown. B(3) - Interior wood panel & furred out strip North wall
Lab ID # 1434-03374-018		3) Apr-19-18 4)Apr-26-18	Glue-Brown/Yellow
B-7A	None Detected	1)None Detected 2)99-100% Qtz, Calc, Opq	Concrete slab. B(3) - Addition - S.W corner of slab.
Lab ID # 1434-03374-019		3) Apr-19-18 4) Apr-26-18	Concrete-Grey
B-7B	None Detected	1)None Detected 2)99-100% Qtz, Calc, Opq	Concrete slab. B(3) - Addition - S.W corner of slab.
Lab ID # 1434-03374-020		3) Apr-19-18 4)Apr-26-18	Concrete-Grey
B-7C	None Detected	1)None Detected 2)99-100% Qtz, Calc, Opq	Concrete slab. B(3) - Addition - S.W corner of slab.
Lab ID # 1434-03374-021		3) Apr-19-18 4)Apr-26-18	Concrete-Grey
B-8A	None Detected	1)50-60% Cellulose 2)40-50% Tar	Vapor barrier - Black under wood plank. B(3)-Wood divider between Bldg B & Addition - S. side
Lab ID # 1434-03374-022		3) Apr-19-18 4)Apr-26-18	Vapor barrier-Black
B-8B	None Detected	1)50-60% Cellulose 2)40-50% Tar	Vapor barrier - Black under wood plank. B(3)-Wood divider between Bldg B & Addition - S. side
Lab ID # 1434-03374-023		3) Apr-19-18 4)Apr-26-18	Vapor barrier-Black

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst 

ASBESTOS TEM LABORATORIES, INC.
www.asbestostemplabs.com

600 Bancroft Way, Ste. A, Berkeley CA 94710 (510) 704-8930
With Offices in Reno, NV (775) 359-3377

POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 4 of

Contact: W. Frieszell Address: Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608		Samples Indicated: 24 Reg. Samples Analyzed: 24 Split Layers Analyzed: 7 Job Site / No. Nike Missile Site, Bldg B(3), 2892 Fairmont Dr, San Leandro R1187351		Report No. 357343 Date Submitted: Apr-19-18 Date Reported: Apr-26-18	
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SAMPLE ID	%	ASBESTOS TYPE	OTHER DATA	DESCRIPTION
			1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD <hr/> LAB
B-8C		None Detected	1) 50-60% Cellulose 2) 40-50% Tar	Vapor barrier - Black under wood plank. B(3)-Wood divider between Bldg B & Addition - S. side
Lab ID # 1434-03374-024			3) Apr-19-18 4) Apr-26-18	Vapor barrier-Black
Lab ID #			1) 2) 3) 4)	
Lab ID #			1) 2) 3) 4)	
Lab ID #			1) 2) 3) 4)	
Lab ID #			1) 2) 3) 4)	
Lab ID #			1) 2) 3) 4)	
Lab ID #			1) 2) 3) 4)	
Lab ID #			1) 2) 3) 4)	
Lab ID #			1) 2) 3) 4)	
Lab ID #			1) 2) 3) 4)	

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B.3

B.2

B.1

B

3

357343

Terracon

***E-MAIL REPORT TO:

SEE BELOW PROJECT MANAGER (PM)***

ADDITIONAL RECIPIENTS

☐ denise.wallert@terracon.com
 ☐ eric.dyer@terracon.com

☐ PM - S. Steiner
ssteiner@terracon.com

☐ PM - K. Schroeter
kmschroeter@terracon.com

☐ PM - K. Pliginsk
kpliginsk@terracon.com

☐ PM - M. Benefield
mbenefield@terracon.com

☐ PM - T. Kettichee
tkettichee@terracon.com

☒ PM - W. Frieszel
wfrieszel@terracon.com

ACM BULK SAMPLE DATA SHEET

- ☒
- PLM Analysis (Analyze all samples)
-
- ☐
- Stop Analysis at First Positive
-
- ☐
- Point Count Analysis (400-point)

PAGE ___ OF ___

Project Name/Address/ Building No. Nike Missile Site, Bldg B (3), 2892 Fairmont Dr, San Diego, CAProject# 1187351 Sampled By: Acbestos + EM Sampling Date: 4/19/18Sample(s) sent to: ☐ MAL ☐ AERO ☐ EMLAB ☐ OtherTAT ☐ Rush ☐ 24HRS ☐ 48HR ☒ 3-5 days

HM#	Material Description	Sample ID	Sample Location & Material Location	Quantity:
B-1A	4" Black UFT + BIK Acoustic	Bldg B (3) - Main Bldg		Black Acoustic
L-1B		1 Addition		
B-2A	Window Caulk	Bldg B (3) - 1 Door		
L-2B		1		
B-3A	Brown Fiber Board	Bldg B (3) - Addition Ceiling		
L-3B		1		
B-4A	Fiberglass Batt - Vapor Barrier	Bldg B (3) - Addition - over Fiberboard Ceily (Falling Down)		
L-4B		1		
B-5A	CMU Mortar - Grey	Bldg B (3) - Exterior - S.E. Corner		
L-5B		1 - S.W. Corner		
L-5C		1 - N.W. Corner		

Relinquished By: R. CaldwellReceived By: Gabriela

Relinquished By: _____

Received By: _____

Signature: [Signature]Signature: [Signature]

Signature: _____

Signature: _____

Date/Time: 4/19/18Date/Time: 4/19/18 4:15PM

Date/Time: _____

Date/Time: _____

1466 66th Street Emeryville CA 94608 Tel: (510) 547-7771 Fax: (510) 547-1983

Updated 02.23.2018

3 Terracon 357343

10-1

***E-MAIL REPORT TO:

SEE BELOW PROJECT MANAGER (PM)***

ADDITIONAL RECIPIENTS

☐ denise.wall@terracon.com ☐ eric.dyer@terracon.com

□PM – S. Steiner
steiner@terracon.com

☐ PM – K. Schroeter
kmschroeten@lerracon.com

☐ PM – K. Pilgrim
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□PM- M. Benfield
mabenfield@terracon.com

□ PM – T. Kattichee
tkattichee@lerra.com

CPM - W. Frieszell
wtfrieszell@att.net

ACM BULK SAMPLE DATA SHEET☒ PLM Analysis (Analyze all samples)☐ Stop Analysis at First Positive☐ Point Count Analysis (400-point)

PAGE OF

Project Name/Address/ Building No. Nike Missile Site, Bldg B, 2892 Fairmont Dr, San Diego, CA

Project# 021187351 Sampled By: _____

Sampling Date: _____

Sample(s) sent to: ☐ MAL ☐ AERO ☐ EMLAB ☐ Other

TAT ☐ Rush ☐ 24HRS ☐ 48HR ☒ 3-5 days

HM#	Material Description	Quantity:
Sample ID	Sample Location & Material Location	
B - 6A	B(3) - Interior Wood Panel + Furrowed out Strip North wall	
I - 6B	I -	I
I - 6C	I -	I
HM#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	
B - 7A	B(3) - Addition - S.W. Corner of Slab	
I - 7B	I - S.E. corner of Slab	
I - 7C	I - N.E. corner of Slab	
HM#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	
B - 8A	B(3) - Wood Divider Between Bly B + Addition - South Side	
I - 8B	I -	I
I - 8C	I -	I
HM#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	
HM#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	

Relinquished By: R. Calley V

Signature:

Date/Time: 4/19/18

Received By:

Signature:

Date/ Time:

Relinquished By:

Signature:

Date/Time:

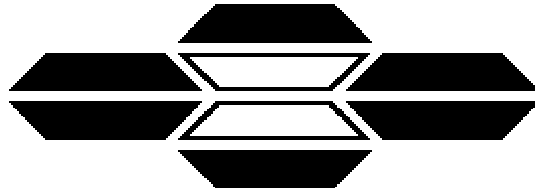
Received By:

Signature:

Date/Time:

1466 66th Street Emeryville CA 94608 Tel: (510) 547-7771 Fax: (510) 547-1983

Updated 02.23.2018



ASBESTOS TEM LABORATORIES, INC.

EPA Interim Method Polarized Light Microscopy Analytical Report

Laboratory Job # 357346

600 Bancroft Way, Ste. A
Berkeley, CA 94710
(510) 704-8930
FAX (510) 704-8429
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With Branch Offices Located At:

1350 FREEPORT BLVD. UNIT 104, SPARKS, NV 89431
Ph. (775) 359-3377



ASBESTOS TEM LABORATORIES, INC

CA DPH ELAP
Lab No. 1866



NVLAP Lab Code: 101891-0
Berkeley, CA

Apr-26-18

W. Frieszell
Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

RE: LABORATORY JOB # 357346

Polarized light microscopy analytical results for 18 bulk sample(s) with 6 sample split(s)
Job Site: Nike Missile Site, Bldg C, 2892 Fairmont Dr, San Leandro, CA
Job No.: R1187351

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with EPA Method 600/R-93/116 or 600/M4-82-020 for the determination of asbestos in bulk building materials by polarized light microscopy (PLM). Please note that while PLM analysis is commonly performed on non-friable and fine grained materials such as floor tiles and dust, the EPA method recognizes that PLM is subject to limitations. In these situations, accurate results may only be obtainable through the use of more sophisticated and accurate techniques such as transmission electron microscopy (TEM) or X-ray diffraction (XRD).

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Each sample is opened in a class 100 HEPA negative air hood. A representative sampling of the material is selected and placed onto a glass microscope slide containing a drop of refractive index oil. The glass slide is placed under a polarizing light microscope where standard mineralogical techniques are used to analyze and quantify the various materials present, including asbestos. The data is then compiled into a standard report format and reviewed by the authorized signatory before being released to the client.

Sincerely Yours,

Lab Manager
ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, with the approval of the laboratory. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. ---

Note: Test samples will be stored for three months after data of receipt, after which they will be properly disposed unless client makes other arrangements with the laboratory.

POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 1 of

Contact: W. Frieszell Address: Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608		Samples Indicated: 18 Reg. Samples Analyzed: 18 Split Layers Analyzed: 6 Job Site / No. Nike Missile Site, Bldg C, 2892 Fairmont Dr, San Leandro, CA R1187351		Report No. 357346 Date Submitted: Apr-19-18 Date Reported: Apr-26-18	
--	--	---	--	---	--

SAMPLE ID	%	ASBESTOS TYPE	OTHER DATA	DESCRIPTION
			1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD <hr/> LAB
C-1A Lab ID # 1434-03377-001		None Detected	1) None Detected	Exterior mortar. Exterior
			2) 99-100% Qtz, Calc, Opq	
			3) Apr-19-18 4) Apr-26-18	Mortar-Grey
C-1B Lab ID # 1434-03377-002		None Detected	1) None Detected	Exterior mortar. Exterior
			2) 99-100% Qtz, Calc, Opq	
			3) Apr-19-18 4) Apr-26-18	Mortar-Grey
C-1C Lab ID # 1434-03377-003		None Detected	1) None Detected	Exterior mortar. Exterior
			2) 99-100% Qtz, Calc, Opq	
			3) Apr-19-18 4) Apr-26-18	Mortar-Grey
C-2A Lab ID # 1434-03377-004A	1-5%	Chrysotile	1) None Detected	9" Green VFT w/ black mastic. North office.
			2) 95-99% Opq, Calc	
			3) Apr-19-18 4) Apr-26-18	Floor Tile-Green
C-2A Lab ID # 1434-03377-004B	1-5%	Chrysotile	1) None Detected	9" Green VFT w/ black mastic. North office.
			2) 95-99% Tar	
			3) 4) Apr-26-18	Mastic-Black
C-2B Lab ID # 1434-03377-005A	1-5%	Chrysotile	1) None Detected	9" Green VFT w/ black mastic. North office.
			2) 95-99% Opq, Calc	
			3) Apr-19-18 4) Apr-26-18	Floor Tile-Green
C-2B Lab ID # 1434-03377-005B	1-5%	Chrysotile	1) None Detected	
			2) 95-99% Tar	
			3) 4) Apr-26-18	Mastic-Black
C-2C Lab ID # 1434-03377-006A	1-5%	Chrysotile	1) None Detected	9" Green VFT w/ black mastic. North office.
			2) 95-99% Opq, Calc	
			3) Apr-19-18 4) Apr-26-18	Floor Tile-Green
C-2C Lab ID # 1434-03377-006B	1-5%	Chrysotile	1) None Detected	
			2) 95-99% Tar	
			3) 4) Apr-26-18	Mastic-Black
C-3A Lab ID # 1434-03377-007A		None Detected	1) 20-40% Cellulose, Fiberglass	1'x1' Round hole ceiling tile & brown adhesive.
			2) 60-80% Opq, GlassFrgs	North office - 20'x30'
			3) Apr-19-18 4) Apr-26-18	Ceiling Tile-Grey

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst

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POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 2 of

Contact: W. Frieszell Address: Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608		Samples Indicated: 18 Reg. Samples Analyzed: 18 Split Layers Analyzed: 6 Job Site / No. Nike Missile Site, Bldg C, 2892 Fairmont Dr, San Leandro, CA R1187351		Report No. 357346 Date Submitted: Apr-19-18 Date Reported: Apr-26-18	
--	--	---	--	---	--

SAMPLE ID	%	ASBESTOS TYPE	OTHER DATA	DESCRIPTION
			1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD <hr/> LAB
C-3A Lab ID # 1434-03377-007B		None Detected	1) None Detected 2) 99-100% Glue	1'x1' Round hole ceiling tile & brown adhesive. North office - 20'x30'
			3) 4) Apr-26-18	Mastic-Brown
C-3B Lab ID # 1434-03377-008A		None Detected	1) 20-40% Cellulose, Fiberglass 2) 60-80% Opq, GlassFrgs	1'x1' Round hole ceiling tile & brown adhesive. North office - 20'x30'
			3) Apr-19-18 4) Apr-26-18	Ceiling Tile-Grey
C-3B Lab ID # 1434-03377-008B		None Detected	1) None Detected 2) 99-100% Glue	
			3) 4) Apr-26-18	Mastic-Brown
C-3C Lab ID # 1434-03377-009A		None Detected	1) 20-40% Cellulose, Fiberglass 2) 60-80% Opq, GlassFrgs	1'x1' Round hole ceiling tile & brown adhesive. North office - 20'x30'
			3) Apr-19-18 4) Apr-26-18	Ceiling Tile-Grey
C-3C Lab ID # 1434-03377-009B		None Detected	1) None Detected 2) 99-100% Glue	
			3) 4) Apr-26-18	Mastic-Brown
C-4A Lab ID # 1434-03377-010		None Detected	1) None Detected 2) 99-100% Calc, Opq	Window putty (at glass/wood) North window.
			3) Apr-19-18 4) Apr-26-18	Putty-Grey/Beige
C-4B Lab ID # 1434-03377-011		None Detected	1) None Detected 2) 99-100% Calc, Opq	Window putty (at glass/wood) North window.
			3) Apr-19-18 4) Apr-26-18	Putty-Grey/Beige
C-4C Lab ID # 1434-03377-012		None Detected	1) None Detected 2) 99-100% Calc, Opq	Window putty (at glass/wood) North window.
			3) Apr-19-18 4) Apr-26-18	Putty-Grey/Beige
C-5A Lab ID # 1434-03377-013		None Detected	1) None Detected 2) 99-100% Calc, Opq	Window caulk. Window - South
			3) Apr-19-18 4) Apr-26-18	Caulk-Beige
C-5B Lab ID # 1434-03377-014		None Detected	1) None Detected 2) 99-100% Calc, Opq	Window caulk. Window - North
			3) Apr-19-18 4) Apr-26-18	Caulk-Beige

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst

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POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 3 of

Contact: W. Frieszell Address: Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608		Samples Indicated: 18 Reg. Samples Analyzed: 18 Split Layers Analyzed: 6 Job Site / No. Nike Missile Site, Bldg C, 2892 Fairmont Dr, San Leandro, CA R1187351		Report No. 357346 Date Submitted: Apr-19-18 Date Reported: Apr-26-18	
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SAMPLE ID	%	ASBESTOS TYPE	OTHER DATA	DESCRIPTION
			1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD LAB
C-5C Lab ID # 1434-03377-015		None Detected	1) None Detected	Window caulk. Window - North
			2) 99-100% Calc, Opq	
			3) Apr-19-18	4) Apr-26-18
C-6A Lab ID # 1434-03377-016		None Detected	1) None Detected	Concrete slab. Exterior - West side - North
			2) 99-100% Opq, Qtz, Calc	
			3) Apr-19-18	4) Apr-26-18
C-6B Lab ID # 1434-03377-017		None Detected	1) None Detected	Concrete slab. Exterior - West side - South
			2) 99-100% Opq, Qtz, Calc	
			3) Apr-19-18	4) Apr-26-18
C-6C Lab ID # 1434-03377-018		None Detected	1) None Detected	Concrete slab. Exterior - East side - South side
			2) 99-100% Opq, Qtz, Calc	
			3) Apr-19-18	4) Apr-26-18
Lab ID #			1)	
			2)	
			3)	4)
Lab ID #			1)	
			2)	
			3)	4)
Lab ID #			1)	
			2)	
			3)	4)
Lab ID #			1)	
			2)	
			3)	4)
Lab ID #			1)	
			2)	
			3)	4)

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

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B-3

C-2

D-1

C 2

357346

Terracon

<p align="center">***E-MAIL REPORT TO:</p> <p align="center">SEE BELOW PROJECT MANAGER (PM)***</p> <p align="center">***ADDITIONAL RECIPIENTS***</p> <p><input type="checkbox"/> denise.wallen@terracon.com <input type="checkbox"/> eric.dyer@terracon.com</p> <p><input type="checkbox"/> PM - S. Steiner <input type="checkbox"/> PM - K. Schroeter <input type="checkbox"/> PM - K. Pilgrim</p> <p><input type="checkbox"/> ssteiner@terracon.com <input type="checkbox"/> kschroeter@terracon.com <input type="checkbox"/> kpilgrim@terracon.com</p> <p><input type="checkbox"/> PM - M. Benefield <input type="checkbox"/> PM - T. Kattchee <input checked="" type="checkbox"/> PM - W. Frieszell</p> <p><input type="checkbox"/> mbenefield@terracon.com <input type="checkbox"/> tkattchee@terracon.com <input type="checkbox"/> wfrieszell@terracon.com</p>	<p align="center">ACM BULK SAMPLE DATA SHEET</p> <p><input checked="" type="checkbox"/> PLM Analysis (Analyze all samples)</p> <p><input type="checkbox"/> Stop Analysis at First Positive</p> <p><input type="checkbox"/> Point Count Analysis (400-point)</p> <p align="right">PAGE <u> </u> OF <u> </u></p>
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Project Name/Address/ Building No. Mike Missile Site, Bldg C, 2892 Fairmont Dr, San Leandro, CA

Project# RL187351 Sampled By: [Signature] Sampling Date: 4/19/18

Sample(s) sent to: ☐ MAL ☐ AERO ☐ EMLAB ☐ Other Asbestos + EM

TAT ☐ Rush ☐ 24HRS ☐ 48HR ☒ 3-5 days

HM#	Material Description	Sample Location & Material Location	Quantity:
C-1A	Exterior		
C-1B			
C-1C			
C-2A	9" Green VIT w/ Black Acrylic		
C-2B	North Office		
C-2C			
C-3A	1'x1' Round Hole Ceiling tile w Brown Adhesive		
C-3B	North Office		20' x 30'
C-3C			
C-4A	Window Putty (at glass/wood)		
C-4B	North Window		
C-4C			
C-5A	Window Caulk		
C-5B	Window - South		
C-5C	North		

Relinquished By: R. Caldwell Signature: [Signature] Date/Time: 4/19/18

Received By: Gabriela Signature: [Signature] Date/Time: 04:13:10 PM

Relinquished By: _____ Signature: _____ Date/Time: _____

Received By: _____ Signature: _____ Date/Time: _____

1466 66th Street Emeryville CA 94608 Tel: (510) 547-7771 Fax: (510) 547-1983
Updated 02.23.2018

W C-2

357346

 b-1

(

2

Terracon

<p>***E-MAIL REPORT TO: SEE BELOW PROJECT MANAGER (PM)*** ***ADDITIONAL RECIPIENTS***</p> <p><input type="checkbox"/> denise_wallen@terracon.com <input type="checkbox"/> eric_dyer@terracon.com</p> <p><input type="checkbox"/> PM - S. Steiner ssneider@terracon.com</p> <p><input type="checkbox"/> PM - K. Schroeter kschroeter@terracon.com</p> <p><input type="checkbox"/> PM - K. Pliginskii kpliginskii@terracon.com</p> <p><input type="checkbox"/> PM - M. Benefield mbenefield@terracon.com</p> <p><input type="checkbox"/> PM - T. Katchee tkatchee@terracon.com</p> <p><input checked="" type="checkbox"/> PM - W. Friesen wmfriesen@terracon.com</p>		<p>ACM BULK SAMPLE DATA SHEET</p> <p><input checked="" type="checkbox"/> PLM Analysis (Analyze all samples) <input type="checkbox"/> Stop Analysis at First Positive <input type="checkbox"/> Point Count Analysis (400-point)</p> <p>PAGE ____ OF ____</p>
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Project Name/Address/ Building No. Nike Missile Site, Bldg (C), 2892 Fairmont Dr, San Diego, CA
 Project# 1187351 Sampled By: [Signature] Sampling Date: 4/19/18
 Sample(s) sent to: ☐ MAL ☐ AERO ☐ EMLAB ☐ Other Acetost + Ery
 TAT ☐ Rush ☐ 24HRS ☐ 48HR ☒ 3/5 days

HM#	Material Description	Quantity:
Sample ID	Sample Location & Material Location	
C-6A	External - West Side - North	
C-6B	External - West Side - South	
C-6C	External - East Side - South Side	

HM#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	
A		
B		
C		

HM#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	
A		
B		
C		

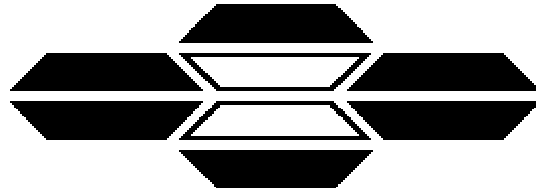
HM#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	
A		
B		
C		

HM#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	

Relinquished By:
Received By:
Relinquished By:
Received By:

Signature:
Signature:
Signature:
Signature:

Date/Time:
Date/Time:
Date/Time:
Date/Time:



ASBESTOS TEM LABORATORIES, INC.

EPA Interim Method Polarized Light Microscopy Analytical Report

Laboratory Job # 357344

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Berkeley, CA 94710
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With Branch Offices Located At:

1350 FREEPORT BLVD. UNIT 104, SPARKS, NV 89431
Ph. (775) 359-3377



ASBESTOS TEM LABORATORIES, INC

CA DPH ELAP
Lab No. 1866



NVLAP Lab Code: 101891-0
Berkeley, CA

Apr-26-18

W. Frieszell
Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

RE: LABORATORY JOB # 357344

Polarized light microscopy analytical results for 36 bulk sample(s) with 27 sample split(s)
Job Site: Nike Missile Sit, Bldg D, 2892 Fairmont Dr, San Leandro, CA
Job No.: R1187351

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with EPA Method 600/R-93/116 or 600/M4-82-020 for the determination of asbestos in bulk building materials by polarized light microscopy (PLM). Please note that while PLM analysis is commonly performed on non-friable and fine grained materials such as floor tiles and dust, the EPA method recognizes that PLM is subject to limitations. In these situations, accurate results may only be obtainable through the use of more sophisticated and accurate techniques such as transmission electron microscopy (TEM) or X-ray diffraction (XRD).

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Each sample is opened in a class 100 HEPA negative air hood. A representative sampling of the material is selected and placed onto a glass microscope slide containing a drop of refractive index oil. The glass slide is placed under a polarizing light microscope where standard mineralogical techniques are used to analyze and quantify the various materials present, including asbestos. The data is then compiled into a standard report format and reviewed by the authorized signatory before being released to the client.

Sincerely Yours,

Lab Manager
ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, with the approval of the laboratory. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. ---

Note: Test samples will be stored for three months after data of receipt, after which they will be properly disposed unless client makes other arrangements with the laboratory.


POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 1 of

Contact: W. Frieszell		Samples Indicated: 36	Report No. 357344	
Address: Terracon Consultants, Inc.		Reg. Samples Analyzed: 36	Date Submitted: Apr-19-18	
1466 66th Street		Split Layers Analyzed: 27	Date Reported: Apr-26-18	
Emeryville, CA 94608		Job Site / No. Nike Missile Sit, Bldg D, 2892 Fairmont Dr, San Leandro,CA R1187351		
SAMPLE ID		OTHER DATA		DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed		
%	ASBESTOS TYPE			FIELD LAB
D-1A	None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq		Drywall ceiling and joint compound (Smooth). North room.
Lab ID # 1434-03375-001A		3) Apr-19-18 4) Apr-26-18		Drywall-White
D-1A	1-5% Chrysotile	1) None Detected 2) 95-99% Opq, Calc		Drywall ceiling and joint compound (Smooth). North room.
Lab ID # 1434-03375-001B		3) 4) Apr-26-18		JointCom/Text-Off-White
D-1B	None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq		Drywall ceiling and joint compound (Smooth). Center.
Lab ID # 1434-03375-002A		3) Apr-19-18 4) Apr-26-18		Drywall-White
D-1B	1-5% Chrysotile	1) None Detected 2) 95-99% Opq, Calc		
Lab ID # 1434-03375-002B		3) 4) Apr-26-18		JointCom/Text-Off-White
D-1C	None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq		Drywall ceiling and joint compound (Smooth). South room.
Lab ID # 1434-03375-003A		3) Apr-19-18 4)Apr-26-18		Drywall-White
D-1C	1-5% Chrysotile	1) None Detected 2) 95-99% Opq, Calc		
Lab ID # 1434-03375-003B		3) 4) Apr-26-18		JointCom/Text-Off-White
D-2A	None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq		Drywall and joint compound. West room - North wall (Ceiling & debris)
Lab ID # 1434-03375-004A		3) Apr-19-18 4)Apr-26-18		Drywall-White
D-2A	1-5% Chrysotile	1) None Detected 2) 95-99% Opq, Calc		
Lab ID # 1434-03375-004B		3) 4)Apr-26-18		JointCom/Text-Off-White
D-2B	None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq		Drywall and joint compound. West room - North wall (floor)
Lab ID # 1434-03375-005A		3) Apr-19-18 4)Apr-26-18		Drywall-White
D-2B	1-5% Chrysotile	1) None Detected 2) 95-99% Opq, Calc		
Lab ID # 1434-03375-005B		3) 4)Apr-26-18		JointCom/Text-Off-White

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst 

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With Offices in Reno, NV (775) 359-3377

POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 2 of

Contact: W. Frieszell Address: Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608		Samples Indicated: 36 Reg. Samples Analyzed: 36 Split Layers Analyzed: 27 Job Site / No. Nike Missile Sit, Bldg D, 2892 Fairmont Dr, San Leandro, CA R1187351		Report No. 357344 Date Submitted: Apr-19-18 Date Reported: Apr-26-18	
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SAMPLE ID	%	ASBESTOS TYPE	OTHER DATA	DESCRIPTION
			1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD <hr/> LAB
D-2C		None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq	Drywall and joint compound. West room - West wall. <hr/> Drywall-White
Lab ID # 1434-03375-006A			3) Apr-19-18 4) Apr-26-18	
D-2C	1-5%	Chrysotile	1) None Detected 2) 95-99% Opq, Calc	
Lab ID # 1434-03375-006B			3) 4) Apr-26-18	JointCom/Text-Off-White
D-3A		None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq	Drywall texture. West room - North wall. <hr/> Drywall-White
Lab ID # 1434-03375-007A			3) Apr-19-18 4) Apr-26-18	
D-3A	1-5%	Chrysotile	1) None Detected 2) 95-99% Opq, Calc	
Lab ID # 1434-03375-007B			3) 4) Apr-26-18	JointCom/Text-Off-White
D-3B		None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq	Drywall texture. West room - West wall. <hr/> Drywall-White
Lab ID # 1434-03375-008A			3) Apr-19-18 4) Apr-26-18	
D-3B	1-5%	Chrysotile	1) None Detected 2) 95-99% Opq, Calc	
Lab ID # 1434-03375-008B			3) 4) Apr-26-18	JointCom/Text-Off-White
D-3C		None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq	Drywall texture. West room - West wall. <hr/> Drywall-White
Lab ID # 1434-03375-009A			3) Apr-19-18 4) Apr-26-18	
D-3C	1-5%	Chrysotile	1) None Detected 2) 95-99% Opq, Calc	
Lab ID # 1434-03375-009B			3) 4) Apr-26-18	JointCom/Text-Off-White
D-4A	1-5%	Chrysotile	1) None Detected 2) 95-99% Calc, Bndr	9" Black VFT & mastic - Black & white VFT & black mastic. N. room - 2 layers Black on white. <hr/> Floor Tile-Black
Lab ID # 1434-03375-010A			3) Apr-19-18 4) Apr-26-18	
D-4A	1-5%	Chrysotile	1) None Detected 2) 95-99% Tar	9" Black VFT & mastic - Black & white VFT & black mastic. N. room - 2 layers Black on white. <hr/> Mastic-Black
Lab ID # 1434-03375-010B			3) 4) Apr-26-18	

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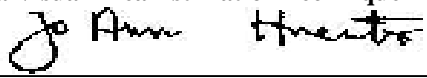
POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 3 of

Contact: W. Frieszell		Samples Indicated: 36	Report No. 357344	
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1466 66th Street		Split Layers Analyzed: 27	Date Reported: Apr-26-18	
Emeryville, CA 94608		Job Site / No. Nike Missile Sit, Bldg D, 2892 Fairmont Dr, San Leandro,CA R1187351		
SAMPLE ID		OTHER DATA		DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed		
ASBESTOS TYPE		FIELD LAB		
D-4A	1-5% Chrysotile	1)None Detected 2)95-99% Calc, Bndr	9" Black VFT & mastic - Black & white VFT & black mastic. N. room - 2 layers Black on white.	
Lab ID # 1434-03375-010C		3) 4) Apr-26-18	Floor Tile-Black/White	
D-4A	1-5% Chrysotile	1)None Detected 2)95-99% Tar	9" Black VFT & mastic - Black & white VFT & black mastic. N. room - 2 layers Black on white.	
Lab ID # 1434-03375-010D		3) 4) Apr-26-18	Mastic-Black	
D-4B	1-5% Chrysotile	1)None Detected 2)95-99% Calc, Bndr	9" Black VFT & mastic - Black & white VFT & black mastic. Center room	
Lab ID # 1434-03375-011A		3) Apr-19-18 4) Apr-26-18	Floor Tile-Black	
D-4B	1-5% Chrysotile	1)None Detected 2)95-99% Tar		
Lab ID # 1434-03375-011B		3) 4) Apr-26-18	Mastic-Black	
D-4B	1-5% Chrysotile	1)None Detected 2)95-99% Calc, Bndr		
Lab ID # 1434-03375-011C		3) 4)Apr-26-18	Floor Tile-Black/White	
D-4B	1-5% Chrysotile	1)None Detected 2)95-99% Tar		
Lab ID # 1434-03375-011D		3) 4) Apr-26-18	Mastic-Black	
D-4C	1-5% Chrysotile	1)None Detected 2)95-99% Calc, Bndr	9" Black VFT & mastic - Black & white VFT & black mastic. South room	
Lab ID # 1434-03375-012A		3) Apr-19-18 4)Apr-26-18	Floor Tile-Black	
D-4C	1-5% Chrysotile	1)None Detected 2)95-99% Tar		
Lab ID # 1434-03375-012B		3) 4)Apr-26-18	Mastic-Black	
D-4C	1-5% Chrysotile	1)None Detected 2)95-99% Calc, Bndr		
Lab ID # 1434-03375-012C		3) 4)Apr-26-18	Floor Tile-Black/White	
D-4C	1-5% Chrysotile	1)None Detected 2)95-99% Tar		
Lab ID # 1434-03375-012D		3) 4)Apr-26-18	Mastic-Black	

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POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: **4** of

Contact: W. Frieszell		Samples Indicated: 36	Report No. 357344
Address: Terracon Consultants, Inc.		Reg. Samples Analyzed: 36	Date Submitted: Apr-19-18
1466 66th Street		Split Layers Analyzed: 27	Date Reported: Apr-26-18
Emeryville, CA 94608		Job Site / No. Nike Missile Sit, Bldg D, 2892 Fairmont Dr, San Leandro,CA R1187351	
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA	DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD LAB
D-5A	1-5% Chrysotile	1)None Detected 2)95-99% Calc, Opq, Bndr	9" Red VFT & mastic. West room.
Lab ID # 1434-03375-013A		3)Apr-19-18 4)Apr-26-18	Floor Tile-Red
D-5A	1-5% Chrysotile	1)None Detected 2)95-99% Tar	9" Red VFT & mastic. West room.
Lab ID # 1434-03375-013B		3) 4)Apr-26-18	Mastic-Black
D-5B	1-5% Chrysotile	1)None Detected 2)95-99% Calc, Opq, Bndr	9" Red VFT & mastic. West room.
Lab ID # 1434-03375-014A		3)Apr-19-18 4)Apr-26-18	Floor Tile-Red
D-5B	1-5% Chrysotile	1)None Detected 2)95-99% Tar	
Lab ID # 1434-03375-014B		3) 4)Apr-26-18	Mastic-Black
D-5C	1-5% Chrysotile	1)None Detected 2)95-99% Calc, Opq, Bndr	9" Red VFT & mastic. West room.
Lab ID # 1434-03375-015A		3)Apr-19-18 4)Apr-26-18	Floor Tile-Red
D-5C	1-5% Chrysotile	1)None Detected 2)95-99% Tar	
Lab ID # 1434-03375-015B		3) 4)Apr-26-18	Mastic-Black
D-6A	None Detected	1)None Detected 2)99-100% Calc, Qtz	Window caulk. South room - West wall
Lab ID # 1434-03375-016		3)Apr-19-18 4)Apr-26-18	Caulk-Beige
D-6B	None Detected	1)None Detected 2)99-100% Calc, Qtz	Window caulk. South room - West wall
Lab ID # 1434-03375-017		3)Apr-19-18 4)Apr-26-18	Caulk-Beige
D-6C	None Detected	1)None Detected 2)99-100% Calc, Qtz	Window caulk. South room - West wall
Lab ID # 1434-03375-018		3)Apr-19-18 4)Apr-26-18	Caulk-Beige
D-7A	None Detected	1)None Detected 2)99-100% Calc, Opq, Qtz	Exterior - CMU mortar. Exterior
Lab ID # 1434-03375-019		3)Apr-19-18 4)Apr-26-18	Mortar-Grey

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

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POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 5 of

Contact: W. Frieszell Address: Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608		Samples Indicated: 36 Reg. Samples Analyzed: 36 Split Layers Analyzed: 27 Job Site / No. Nike Missile Sit, Bldg D, 2892 Fairmont Dr, San Leandro, CA R1187351		Report No. 357344 Date Submitted: Apr-19-18 Date Reported: Apr-26-18	
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SAMPLE ID	%	ASBESTOS TYPE	OTHER DATA	DESCRIPTION
			1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD <hr/> LAB
D-7B Lab ID # 1434-03375-020		None Detected	1) None Detected 2) 99-100% Qtz, Calc	Exterior - CMU mortar. Exterior
			3) Apr-19-18 4) Apr-26-18	Mortar-Grey
D-7C Lab ID # 1434-03375-021		None Detected	1) None Detected 2) 99-100% Qtz, Calc	Exterior - CMU mortar. Exterior
			3) Apr-19-18 4) Apr-26-18	Mortar-Grey
D-8A Lab ID # 1434-03375-022		None Detected	1) None Detected 2) 99-100% Calc, Qtz	Slab - Concrete. South - Corner
			3) Apr-19-18 4) Apr-26-18	Concrete-Grey
D-8B Lab ID # 1434-03375-023		None Detected	1) None Detected 2) 99-100% Calc, Qtz	Slab - Concrete. South - Corner
			3) Apr-19-18 4) Apr-26-18	Concrete-Grey
D-8C Lab ID # 1434-03375-024		None Detected	1) None Detected 2) 99-100% Calc, Qtz	Slab - Concrete. North - Doorway.
			3) Apr-19-18 4) Apr-26-18	Concrete-Grey
D-9A Lab ID # 1434-03375-025A		None Detected	1) 99-100% Cellulose 2) None Detected	Wood wall panel - Black mastic. North room (1 room) 2 walls.
			3) Apr-19-18 4) Apr-26-18	Wall Panel-Tan
D-9A Lab ID # 1434-03375-025B	1-5%	Chrysotile	1) None Detected 2) 95-99% Tar	Wood wall panel - Black mastic. North room (1 room) 2 walls.
			3) 4) Apr-26-18	Mastic-Black
D-9B Lab ID # 1434-03375-026A		None Detected	1) 99-100% Cellulose 2) None Detected	Wood wall panel - Black mastic. North room (1 room) 2 walls.
			3) Apr-19-18 4) Apr-26-18	Wall Panel-Tan
D-9B Lab ID # 1434-03375-026B	1-5%	Chrysotile	1) None Detected 2) 95-99% Tar	
			3) 4) Apr-26-18	Mastic-Black
D-9C Lab ID # 1434-03375-027A		None Detected	1) 99-100% Cellulose 2) None Detected	Wood wall panel - Black mastic. North room (1 room) 2 walls.
			3) Apr-19-18 4) Apr-26-18	Wall Panel-Tan

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

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POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: **6** of

Contact: W. Frieszell		Samples Indicated: 36	Report No. 357344	
Address: Terracon Consultants, Inc.		Reg. Samples Analyzed: 36	Date Submitted: Apr-19-18	
1466 66th Street		Split Layers Analyzed: 27	Date Reported: Apr-26-18	
Emeryville, CA 94608		Job Site / No. Nike Missile Sit, Bldg D, 2892 Fairmont Dr, San Leandro,CA R1187351		
SAMPLE ID		OTHER DATA		DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed		
ASBESTOS TYPE		FIELD LAB		
D-9C	1-5% Chrysotile	1)None Detected 2)95-99% Tar		
		3) 4) Apr-26-18		Mastic-Black
D-10A	30-40% Chrysotile	1)None Detected 2)60-70% Calc, Opq, Qtz		Transite. Entrance area (Exterior) at North doorway. 400 s.f
		3) Apr-19-18 4) Apr-26-18		Transite-Grey
D-10B	30-40% Chrysotile	1)None Detected 2)60-70% Calc, Opq, Qtz		Transite. Entrance area (Exterior) at South doorway. 400 s.f
		3) Apr-19-18 4) Apr-26-18		Transite-Grey
D-10C	30-40% Chrysotile	1)None Detected 2)60-70% Calc, Opq, Qtz		Transite. Restroom ceiling
		3) Apr-19-18 4) Apr-26-18		Transite-Grey
D-11A	None Detected	1)1-5% Cellulose 2)95-99% Calc, Opq		3" red cove base w/ brown glue. South room - West wall.
		3) Apr-19-18 4)Apr-26-18		Baseboard-Red
D-11A	None Detected	1)None Detected 2)99-100% Glue		3" red cove base w/ brown glue. South room - West wall.
		3) 4) Apr-26-18		Glue-Brown
D-11B	None Detected	1)1-5% Cellulose 2)95-99% Calc, Opq		3" red cove base w/ brown glue. South room - West wall.
		3) Apr-19-18 4)Apr-26-18		Baseboard-Red
D-11B	None Detected	1)None Detected 2)99-100% Glue		
		3) 4)Apr-26-18		Glue-Brown
D-11C	None Detected	1)1-5% Cellulose 2)95-99% Calc, Opq		3" red cove base w/ brown glue. South room - West wall.
		3) Apr-19-18 4)Apr-26-18		Baseboard-Red
D-11C	None Detected	1)None Detected 2)99-100% Glue		
		3) 4)Apr-26-18		Glue-Brown

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

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SAMPLE ID	%	ASBESTOS TYPE	OTHER DATA	DESCRIPTION
			1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD <hr/> LAB
D-12A		None Detected	1) None Detected 2) 99-100% Glue	Tan glue fur wood panel. North room - East wall
Lab ID # 1434-03375-034			3) Apr-19-18 4) Apr-26-18	Glue-Tan
D-12B		None Detected	1) None Detected 2) 99-100% Glue	Tan glue fur wood panel. North room - East wall
Lab ID # 1434-03375-035			3) Apr-19-18 4) Apr-26-18	Glue-Tan
D-12C		None Detected	1) None Detected 2) 99-100% Glue	Tan glue fur wood panel. North room - East wall
Lab ID # 1434-03375-036			3) Apr-19-18 4) Apr-26-18	Glue-Tan
			1) 2)	
Lab ID #			3) 4)	
			1) 2)	
Lab ID #			3) 4)	
			1) 2)	
Lab ID #			3) 4)	
			1) 2)	
Lab ID #			3) 4)	
			1) 2)	
Lab ID #			3) 4)	
			1) 2)	
Lab ID #			3) 4)	

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B3 □ C L
 (D-1)

D

357344
 Terracon

E-MAIL REPORT TO: SEE BELOW PROJECT MANAGER (PM)*** ***ADDITIONAL RECIPIENTS*** <input type="checkbox"/> denise.wallen@terracon.com <input type="checkbox"/> eric.dren@terracon.com <input type="checkbox"/> PM - S. Steiner <input type="checkbox"/> PM - K. Schroeder <input type="checkbox"/> PM - K. Pilgrim sosteiner@terracon.com kmschroeder@terracon.com kmpilgrim@terracon.com <input type="checkbox"/> PM - M. Bensfield <input type="checkbox"/> PM - T. Kattichee <input checked="" type="checkbox"/> PM - W. Friesen mbensfield@terracon.com tkattichee@terracon.com wfriesen@terracon.com		ACM BULK SAMPLE DATA SHEET <input checked="" type="checkbox"/> PLM Analysis (Analyze all samples) <input type="checkbox"/> Stop Analysis at First Positive <input type="checkbox"/> Point Count Analysis (400-point) PAGE ____ OF ____
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Project Name/Address/ Building No. Nike Missile Site, Bldg D, 2892 Fairmont Dr, San Leandro, CA
 Project# 187351 Sampled By: [Signature] Sampling Date: 4/19/18
 Sample(s) sent to: ☐ MAL ☐ AERO ☐ EMLAB ☐ Other Asbestos + EM
 TAT ☐ Rush ☐ 24HRS ☐ 48HR ☒ 3-5 days

HM#	Material Description	Sample Location & Material Location	Quantity:
D - 1A	Day wall Ceiling + Joint Compound (Goth)	North Room	
I - 1B		Center	
I - 1C		South Room	
HM#	Material Description:	Sample Location & Material Location	Quantity:
D - 2A	Day wall text / Joint Compound (Rough)	West Room - North wall	(+ Ceiling + Debris on Floor)
I - 2B		West wall	
I - 2C		West wall	
HM#	Material Description:	Sample Location & Material Location	Quantity:
D - 3A	Day wall texture	West Room - North wall	
I - 3B		West wall	
I - 3C		West wall	
HM#	Material Description:	Sample Location & Material Location	Quantity:
D - 4A	9" Black VFT + Mastic - Black & white VFT	North Room	2 layers Black on white
I - 4B		Center Room	
I - 4C		South Room	
HM#	Material Description:	Sample Location & Material Location	Quantity:
D - 5A	9" Red VFT + Mastic	West Room	
I - 5B			
I - 5C			

Relinquished By: R. Caldwell Signature: [Signature] Date/Time: 4/19/18
 Received By: Gabriela Signature: [Signature] Date/Time: _____
 Relinquished By: _____ Signature: _____ Date/Time: _____
 Received By: _____ Signature: _____ Date/Time: _____

B3 □ C L

D

357344

Terracon

□ D-1

<p align="center">***E-MAIL REPORT TO: SEE BELOW PROJECT MANAGER (PM)*** ***ADDITIONAL RECIPIENTS***</p> <p> <input type="checkbox"/> denise.wallen@terracon.com <input type="checkbox"/> eric.dyer@terracon.com <input type="checkbox"/> PM - S. Steiner <input type="checkbox"/> PM - K. Schroeter <input type="checkbox"/> PM - K. Pignin spsteiner@terracon.com kmschroeter@terracon.com kpignin@terracon.com <input type="checkbox"/> PM - M. Benefield <input type="checkbox"/> PM - T. Kaitchee <input checked="" type="checkbox"/> PM - W. Frieszel mbenefield@terracon.com tkaitchee@terracon.com wfrieszel@terracon.com </p>	<p align="center">ACM BULK SAMPLE DATA SHEET</p> <p> <input checked="" type="checkbox"/> PLM Analysis (Analyze all samples) <input type="checkbox"/> Stop Analysis at First Positive <input type="checkbox"/> Point Count Analysis (400-point) </p> <p align="right">PAGE <u> </u> OF <u> </u></p>
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Project Name/Address/ Building No. Nike Missile Site, Bldg D, 2092 Fairmont Dr, San Leandro, CA
Project# RL187351 Sampled By: [Signature] Sampling Date: 4/19/18
Sample(s) sent to: ☐ MAL ☐ AERO ☐ EMLAB ☐ Other Acetostem
TAT ☐ Rush ☐ 24HRS ☐ 48HR ☒ 5 days

HM#	Material Description	Quantity:
Sample ID	Sample Location & Material Location	
D-6A	Window Ceilings	
D-6B	North Room South Wall - West Wall	
D-6C		
HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:
D-7A	Exterior - Concrete	
D-7B		
D-7C		
HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:
D-8A	Slab - Concrete	
D-8B	North South - Corner	
D-8C	So North - Parkway	
HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:
D-9A	Wood Wall Panel - Black Rustic	
D-9B	NORTH Room (1 Room) 2 WALLS	
D-9C		
HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:
D-10A	transite	
D-10B	Entrance Area (Exterior) - at North Doorway	
D-10C	South	
	Rest Room Ceiling	

Relinquished By: R. Caldwell Signature: [Signature] Date/Time: 4/19/18
Received By: _____ Signature: _____ Date/Time: _____
Relinquished By: _____ Signature: _____ Date/Time: _____
Received By: _____ Signature: _____ Date/Time: _____

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D-1

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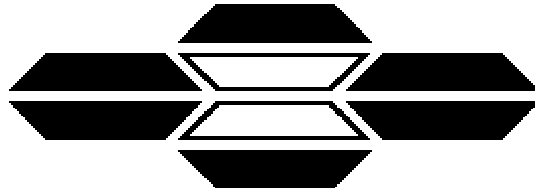
357344
Terracon

<p align="center">***E-MAIL REPORT TO:</p> <p align="center">SEE BELOW PROJECT MANAGER (PM)***</p> <p align="center">***ADDITIONAL RECIPIENTS***</p> <p> <input type="checkbox"/> denise.wallen@terracon.com <input type="checkbox"/> eric.dwyer@terracon.com <input type="checkbox"/> PM - S. Steiner <input type="checkbox"/> PM - K. Schroeter <input type="checkbox"/> PM - K. Pilgrim ssteiner@terracon.com kmschroeter@terracon.com kpilgrim@terracon.com <input type="checkbox"/> PM - M. Benefield <input type="checkbox"/> PM - T. Katchee <input checked="" type="checkbox"/> PM - W. Friesel msbenefield@terracon.com tkatchee@terracon.com wfriesel@terracon.com </p>	<p align="center">ACM BULK SAMPLE DATA SHEET</p> <p> <input checked="" type="checkbox"/> PLM Analysis (Analyze all samples) <input type="checkbox"/> Stop Analysis at First Positive <input type="checkbox"/> Point Count Analysis (400-point) </p> <p align="right">PAGE <u> </u> OF <u> </u></p>
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Project Name/Address/ Building No. Nike Missile Site, Bldg D, 2092 Fairmont Dr, San Leandro, CA
Project# RL187351 Sampled By: [Signature] Sampling Date: 4/19/18
Sample(s) sent to: ☐ MAL ☐ AERO ☐ EMLAB ☐ Other Achrostomy
TAT ☐ Rush ☐ 24HRS ☐ 48HR ☒ 3-5 days

HMM	Material Description: <u>H34 Red Cove Posen / Brown glue</u>	Quantity:
Sample ID	Sample Location & Material Location	
<u>D-11</u>	<u>South Room - West wall</u>	
<u>1-11</u>	<u>1</u>	
<u>1-11</u>	<u>1</u>	
HMM	Material Description: <u>tan glue For wood Panel</u>	Quantity:
Sample ID	Sample Location & Material Location	
<u>D-12</u>	<u>North Room - East wall</u>	
<u>1-12</u>	<u>1</u>	
<u>1-12</u>	<u>1</u>	
HMM	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	
<u>D-13</u>		
<u>1-13</u>		
<u>1-13</u>		
HMM	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	
<u>D-14</u>		
<u>1-14</u>		
<u>1-14</u>		
HMM	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	
<u>D-15</u>		
<u>1-15</u>		
<u>1-15</u>		

Relinquished By: R. Caldwell Signature: [Signature] Date/Time: 4/19/18
Received By: _____ Signature: _____ Date/Time: _____
Relinquished By: _____ Signature: _____ Date/Time: _____
Received By: _____ Signature: _____ Date/Time: _____



ASBESTOS TEM LABORATORIES, INC.

EPA Interim Method Polarized Light Microscopy Analytical Report

Laboratory Job # 357345

600 Bancroft Way, Ste. A
Berkeley, CA 94710
(510) 704-8930
FAX (510) 704-8429
www.asbestostemplabs.com

With Branch Offices Located At:

1350 FREEPORT BLVD. UNIT 104, SPARKS, NV 89431
Ph. (775) 359-3377



ASBESTOS TEM LABORATORIES, INC

CA DPH ELAP
Lab No. 1866



NVLAP Lab Code: 101891-0
Berkeley, CA

Apr-27-18

W. Frieszell
Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

RE: LABORATORY JOB # 357345
Polarized light microscopy analytical results for 21 bulk sample(s).
Job Site: Nike Missile Site - Guard Shack, 2892 Fairmont Dr.
Job No.: R1187351

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with EPA Method 600/R-93/116 or 600/M4-82-020 for the determination of asbestos in bulk building materials by polarized light microscopy (PLM). Please note that while PLM analysis is commonly performed on non-friable and fine grained materials such as floor tiles and dust, the EPA method recognizes that PLM is subject to limitations. In these situations, accurate results may only be obtainable through the use of more sophisticated and accurate techniques such as transmission electron microscopy (TEM) or X-ray diffraction (XRD).

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Each sample is opened in a class 100 HEPA negative air hood. A representative sampling of the material is selected and placed onto a glass microscope slide containing a drop of refractive index oil. The glass slide is placed under a polarizing light microscope where standard mineralogical techniques are used to analyze and quantify the various materials present, including asbestos. The data is then compiled into a standard report format and reviewed by the authorized signatory before being released to the client.

Sincerely Yours,

Lab Manager
ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, with the approval of the laboratory. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. ---

Note: Test samples will be stored for three months after data of receipt, after which they will be properly disposed unless client makes other arrangements with the laboratory.

POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 1 of

Contact: W. Frieszell Address: Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608		Samples Indicated: 21 Reg. Samples Analyzed: 21 Split Layers Analyzed: 0 Job Site / No. Nike Missile Site - Guard Shack, 2892 Fairmont Dr. R1187351		Report No. 357345 Date Submitted: Apr-20-18 Date Reported: Apr-27-18	
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SAMPLE ID	%	ASBESTOS TYPE	OTHER DATA	DESCRIPTION
			1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD <hr/> LAB
X-1A Lab ID # 1434-03376-001		None Detected	1) 20-40% Cellulose, Fiberglass 2) 60-80% Opq, Other m.p.	1x1' Ceiling tile (no glue) styled. Guard shack Ceiling 8'x5'
			3) Apr-19-18 4) Apr-27-18	Ceiling Tile-Grey
X-1B Lab ID # 1434-03376-002		None Detected	1) 20-40% Cellulose, Fiberglass 2) 60-80% Opq, Other m.p.	1x1' Ceiling tile (no glue) styled. Guard shack Ceiling 8'x5'
			3) Apr-19-18 4) Apr-27-18	Ceiling Tile-Grey
X-1C Lab ID # 1434-03376-003		None Detected	1) 20-40% Cellulose, Fiberglass 2) 60-80% Opq, Other m.p.	1x1' Ceiling tile (no glue) styled. Guard shack Ceiling 8'x5'
			3) Apr-19-18 4) Apr-27-18	Ceiling Tile-Grey
X-2A Lab ID # 1434-03376-004		None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq	Drywall (No joint or texture). Guard shack - East wall
			3) Apr-19-18 4) Apr-27-18	Drywall-White
X-2B Lab ID # 1434-03376-005		None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq	Drywall (No joint or texture). Guard shack - East wall
			3) Apr-19-18 4) Apr-27-18	Drywall-White
X-2C Lab ID # 1434-03376-006		None Detected	1) 1-5% Cellulose 2) 95-99% Gyp, Opq	Drywall (No joint or texture). Guard shack - East wall
			3) Apr-19-18 4) Apr-27-18	Drywall-White
X-3A Lab ID # 1434-03376-007		None Detected	1) 1-5% Cellulose 2) 95-99% Opq, Calc	Window caulk. Guard shack - North window.
			3) Apr-19-18 4) Apr-27-18	Caulk-Grey
X-3B Lab ID # 1434-03376-008		None Detected	1) 1-5% Cellulose 2) 95-99% Opq, Calc	Window caulk. Guard shack - North window.
			3) Apr-19-18 4) Apr-27-18	Caulk-Grey
X-3C Lab ID # 1434-03376-009		None Detected	1) 1-5% Cellulose 2) 95-99% Opq, Calc	Window caulk. Guard shack - North window.
			3) Apr-19-18 4) Apr-27-18	Caulk-Grey
X-4A Lab ID # 1434-03376-010		None Detected	1) 1-5% Fiberglass 2) 95-99% Tar, Opq	Roof system - Tart & gravel. Guard shack - 8'x5'
			3) Apr-19-18 4) Apr-27-18	Roofing Felt/Tar-Black

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst

ASBESTOS TEM LABORATORIES, INC.
www.asbestostemplabs.com

600 Bancroft Way, Ste. A, Berkeley CA 94710 (510) 704-8930
With Offices in Reno, NV (775) 359-3377

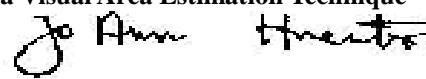
POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 2 of

Contact: W. Frieszell		Samples Indicated: 21	Report No. 357345
Address: Terracon Consultants, Inc.		Reg. Samples Analyzed: 21	Date Submitted: Apr-20-18
1466 66th Street		Split Layers Analyzed: 0	Date Reported: Apr-27-18
Emeryville, CA 94608		Job Site / No. Nike Missile Site - Guard Shack, 2892 Fairmont Dr.	
		R1187351	
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA	DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD LAB
X-4B Lab ID # 1434-03376-011	None Detected	1) 1-5% Fiberglass 2) 95-99% Tar, Opq	Roof system - Tart & gravel. Guard shack - 8'x5'
		3) Apr-19-18 4) Apr-27-18	Roofing Felt/Tar-Black
X-4C Lab ID # 1434-03376-012	None Detected	1) 1-5% Fiberglass 2) 95-99% Tar, Opq	Roof system - Tart & gravel. Guard shack - 8'x5'
		3) Apr-19-18 4) Apr-27-18	Roofing Felt/Tar-Black
X-5A Lab ID # 1434-03376-013	5-10% Chrysotile	1) None Detected 2) 90-95% Tar	Roof patch - Grey. Guard shack throughout 20sf.
		3) Apr-19-18 4) Apr-27-18	Roof Mastic-Black/Grey
X-5B Lab ID # 1434-03376-014	5-10% Chrysotile	1) None Detected 2) 90-95% Tar	Roof patch - Grey. Guard shack throughout 20sf.
		3) Apr-19-18 4) Apr-27-18	Roof Mastic-Black/Grey
X-5C Lab ID # 1434-03376-015	5-10% Chrysotile	1) None Detected 2) 90-95% Tar	Roof patch - Grey. Guard shack throughout 20sf.
		3) Apr-19-18 4) Apr-27-18	Roof Mastic-Black/Grey
X-6A Lab ID # 1434-03376-016	None Detected	1) None Detected 2) 99-100% Qtz, Calc, Opq	Concrete slab. Guard shack - N.E corner of slab
		3) Apr-19-18 4) Apr-27-18	Concrete-Grey
X-6B Lab ID # 1434-03376-017	None Detected	1) None Detected 2) 99-100% Qtz, Calc, Opq	Concrete slab. Guard shack - N.W corner of slab
		3) Apr-19-18 4) Apr-27-18	Concrete-Grey
X-6C Lab ID # 1434-03376-018	None Detected	1) None Detected 2) 99-100% Qtz, Calc, Opq	Concrete slab. Guard shack - Door threshold
		3) Apr-19-18 4) Apr-27-18	Concrete-Grey
X-7A Lab ID # 1434-03376-019	None Detected	1) None Detected 2) 99-100% Qtz, Calc, Opq	
		3) Apr-19-18 4) Apr-27-18	Concrete-Grey
X-7B Lab ID # 1434-03376-020	None Detected	1) None Detected 2) 99-100% Qtz, Calc, Opq	
		3) Apr-19-18 4) Apr-27-18	Concrete-Grey

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst 

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With Offices in Reno, NV (775) 359-3377

POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

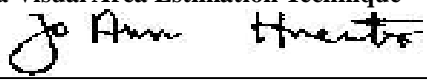
EPA Method 600/R-93/116 or 600/M4-82-020

Page: **3** of

Contact: W. Frieszell Address: Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608	Samples Indicated: 21 Reg. Samples Analyzed: 21 Split Layers Analyzed: 0 Job Site / No. Nike Missile Site - Guard Shack, 2892 Fairmont Dr. R1187351	Report No. 357345 Date Submitted: Apr-20-18 Date Reported: Apr-27-18
--	---	---

SAMPLE ID	% ASBESTOS TYPE	OTHER DATA		DESCRIPTION <div>FIELD LAB</div>
		1) Non-Asbestos Fibers	2) Matrix Materials	
		3) Date/Time Collected	4) Date Analyzed	
X-7C	None Detected	1) None Detected		
Lab ID # 1434-03376-021		2) 99-100% Qtz, Calc, Opq		
		3) Apr-19-18	4) Apr-27-18	Concrete-Grey
Lab ID #		1)		
		2)		
Lab ID #		3)	4)	
		1)		
		2)		
Lab ID #		3)	4)	
		1)		
		2)		
Lab ID #		3)	4)	
		1)		
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Lab ID #		3)	4)	
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		2)		
Lab ID #		3)	4)	
		1)		
		2)		
Lab ID #		3)	4)	
		1)		
		2)		
Lab ID #		3)	4)	

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst 

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With Offices in Reno, NV (775) 359-3377

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PAGE OF

TAT ☐ Rush ☐ 24HRS ☐ 48HR ☒ 3-5 days

Relinquished By: [Signature] Signature: [Signature] Date/Time: 4/19/18
 Received By: Gubille Signature: [Signature] Date/Time: 4/19/18
 Relinquished By: _____ Signature: _____ Date/Time: _____
 Received By: _____ Signature: _____ Date/Time: _____

E-MAIL REPORT TO: SEE BELOW PROJECT MANAGER (PM) ***ADDITIONAL RECIPIENTS*** <input type="checkbox"/> denise.wallon@terracon.com <input type="checkbox"/> eric.dyer@terracon.com <input type="checkbox"/> PM - S. Steiner <input type="checkbox"/> PM - K. Schroeter <input type="checkbox"/> PM - K. Pilgrim sosteiner@terracon.com kschroeter@terracon.com kpilgrim@terracon.com <input type="checkbox"/> PM - M. Benefield <input type="checkbox"/> PM - T. Katchee <input checked="" type="checkbox"/> PM - W. Friesell mbenefield@terracon.com tkatchee@terracon.com wfriesell@terracon.com		ACM BULK SAMPLE DATA SHEET <input checked="" type="checkbox"/> PLM Analysis (Analyze all samples) <input type="checkbox"/> Stop Analysis at First Positive <input type="checkbox"/> Point Count Analysis (400-point) PAGE ____ OF ____
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Project Name/ Address/ Building No. Nike Missile - Guard Shack, 2892 Fairmont Pl, San Louis Obispo, CA
Project# R1187351 Sampled By: R. Caldwell Sampling Date: 4/19/18
Sample(s) sent to: ☐ MAL ☐ AERO ☐ EMLAB ☐ Other
TAT ☐ Rush ☐ 24HRS ☐ 48HR ☒ 5 days 5 days

HM#	Material Description	Quantity:
Sample ID	Sample Location & Material Location	
X - 6A	Guard Shack NE Corner of Slab	
I - 6B	I - NE Corner of Slab	
I - 6C	I - Door threshold	
HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:
X - 7A		
I - 7B		
I - 7C		
HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:
HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:
HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:

Relinquished By: Randy Caldwell Signature: [Signature] Date/Time: 4/19/18
Received By: _____ Signature: _____ Date/Time: _____
Relinquished By: _____ Signature: _____ Date/Time: _____
Received By: _____ Signature: _____ Date/Time: _____



Report for:

Mr. Steffen Steiner
RGA Environmental, Inc.
1466 66th Street
Emeryville, CA 94608

Regarding: Project: R1177B67; Nike Missile Base/San Leandro, CA /Building 1
EML ID: 1813331

Approved by:

Dates of Analysis:
Asbestos PLM: 10-16-2017

A handwritten signature in cursive script, reading "Renee Luna-Trepczynski".

Approved Signatory
Renee Luna-Trepczynski

Service SOPs: Asbestos PLM (EPA Methods 600/R-93/116 & 600/M4-82-020, SOP EM-AS-S-1267)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: RGA Environmental, Inc.
 C/O: Mr. Steffen Steiner
 Re: R1177B67; Nike Missile Base/San Leandro, CA /
 Building 1

Date of Sampling: 10-11-2017
 Date of Receipt: 10-13-2017
 Date of Report: 10-16-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Total Samples Submitted: 9

Total Samples Analyzed: 9

Total Samples with Layer Asbestos Content > 1%: 2

Location: Nike-1-01A, Tar And Gravel Roofing; Building 1 West Side Roof Field

Lab ID-Version‡: 8488474-1

Sample Layers	Asbestos Content
Multicolored Rock	ND
Black Roofing Tar	ND
Black Roofing Tar and Felt	ND
Composite Non-Asbestos Content:	5% Cellulose < 1% Synthetic Fibers
Sample Composite Homogeneity:	Poor

Location: Nike-1-01B, Tar And Gravel Roofing; Building 1 North Side Roof Field

Lab ID-Version‡: 8488475-1

Sample Layers	Asbestos Content
Multicolored Rock	ND
Black Roofing Tar	ND
Black Roofing Tar and Felt	ND
Composite Non-Asbestos Content:	5% Cellulose < 1% Synthetic Fibers
Sample Composite Homogeneity:	Poor

Location: Nike-1-01C, Tar And Gravel Roofing; Building 1 East Side Roof Field

Lab ID-Version‡: 8488476-1

Sample Layers	Asbestos Content
Multicolored Rock	ND
Black Roofing Tar	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	5% Cellulose < 1% Synthetic Fibers
Sample Composite Homogeneity:	Poor

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: RGA Environmental, Inc.
 C/O: Mr. Steffen Steiner
 Re: R1177B67; Nike Missile Base/San Leandro, CA /
 Building 1

Date of Sampling: 10-11-2017
 Date of Receipt: 10-13-2017
 Date of Report: 10-16-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116**Location: Nike-1-02A, Green Rolled On Roofing; Building 1 Southwest At Roof Field**

Lab ID-Version‡: 8488477-1

Sample Layers	Asbestos Content
Black Roofing Tar and Felt with Green Pebbles	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Composite Non-Asbestos Content:	35% Cellulose < 1% Synthetic Fibers
Sample Composite Homogeneity:	Poor

Location: Nike-1-02B, Green Rolled On Roofing; Building 1 Southwest At Roof Field

Lab ID-Version‡: 8488478-1

Sample Layers	Asbestos Content
Black Roofing Tar and Felt with Green Pebbles	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Composite Non-Asbestos Content:	35% Cellulose < 1% Synthetic Fibers
Sample Composite Homogeneity:	Poor

Location: Nike-1-03A, Black Rolled On Roofing; Building 1 South Side Roof Field

Lab ID-Version‡: 8488479-1

Sample Layers	Asbestos Content
Black Roofing Tar	ND
Black Roofing Tar and Felt with Grey Pebbles	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Poor

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: RGA Environmental, Inc.
C/O: Mr. Steffen Steiner
Re: R1177B67; Nike Missile Base/San Leandro, CA /
Building 1

Date of Sampling: 10-11-2017
Date of Receipt: 10-13-2017
Date of Report: 10-16-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116**Location: Nike-1-03B, Black Rolled On Roofing;Building 1 South Side Roof Field**

Lab ID-Version‡: 8488480-1

Sample Layers	Asbestos Content
Black Roofing Tar and Felt with Grey Pebbles	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: Nike-1-04A, Gray/Silver Roof Patching;Building 1 East Side Roof Penetration

Lab ID-Version‡: 8488481-1

Sample Layers	Asbestos Content
Gray/Black Roofing Mastic	10% Chrysotile
Black Roofing Tar and Felt	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Poor

Location: Nike-1-04B, Gray/Silver Roof Patching;Building 1 South Side Roof

Lab ID-Version‡: 8488482-1

Sample Layers	Asbestos Content
Gray/Black Roofing Mastic	5% Chrysotile
Black Roofing Tar and Felt	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Poor

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



001813331

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ACM BULK SAMPLE DATA SHEET

☒ PLM Analysis (Analyze all samples)
☐ Stop Analysis at First Positive
☐ Point Count Analysis (400-point)

PAGE 1 OF 1

Project Name/ Address/ Building No. Nike Missile Base / San Leandro, CA / Building 1Project# RU77867 Sampled By: J. Alexander Sampling Date: 10/11/17Sample(s) sent to: ☐ MAL ☐ AERO ☒ EMLAB ☐ OtherTAT ☐ Rush ☐ 24HRS ☒ 48HR ☐ 3-5 days

HM#	Material Description	Sample ID	Sample Location & Material Location	Quantity:
HM# <u>Nike-1-01A</u>	<u>Tan and Gravel Roofing</u>	<u>Nike-1-01A</u>	<u>Building 1 West Side Roof Field</u>	<u>800 square feet</u>
		<u>Nike-1-01B</u>	<u>Building 1 North Side Roof Field</u>	<u>2</u>
		<u>Nike-1-01C</u>	<u>Building 1 East Side Roof Field</u>	<u>2</u>
HM# <u>Nike-1-02A</u>	<u>Green Rolled on Roofing</u>	<u>Nike-1-02A</u>	<u>Building 1 Southwest at Roof Field</u>	<u>150 square feet</u>
		<u>Nike-1-02B</u>	<u>Building 1 Southwest at Roof Field</u>	<u>2</u>
HM# <u>Nike-1-03A</u>	<u>Black Rolled on Roofing</u>	<u>Nike-1-03A</u>	<u>Building 1 South Side Roof Field</u>	<u>150 square feet</u>
		<u>Nike-1-03B</u>	<u>Building 1 South Side Roof Field</u>	<u>2</u>
HM# <u>Nike-1-04A</u>	<u>Gray/Black Roof Patching</u>	<u>Nike-1-04A</u>	<u>Building 1 East Side Roof Penetration</u>	<u>40 square feet</u>
		<u>Nike-1-04B</u>	<u>Building 1 South Side Roof</u>	<u>2</u>
HM#	Material Description:	Sample ID	Sample Location & Material Location	Quantity:

Relinquished By: John AlexanderSignature: [Signature]Date/Time: 10/12/17Received By: Fedex 930Signature: [Signature]Date/Time: 10/13/17

Relinquished By:

Signature:

Date/Time:

Received By:

Signature:

Date/Time:



Report for:

Mr. Steffen Steiner
RGA Environmental, Inc.
1466 66th Street
Emeryville, CA 94608

Regarding: Project: R1177B67; Nike Missile Base/San Leandro, CA /Building 2
EML ID: 1813343

Approved by:

Dates of Analysis:
Asbestos PLM: 10-16-2017

A handwritten signature in cursive script, reading "Renee Luna-Trepczynski".

Approved Signatory
Renee Luna-Trepczynski

Service SOPs: Asbestos PLM (EPA Methods 600/R-93/116 & 600/M4-82-020, SOP EM-AS-S-1267)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: RGA Environmental, Inc.
 C/O: Mr. Steffen Steiner
 Re: R1177B67; Nike Missile Base/San Leandro, CA /
 Building 2

Date of Sampling: 10-11-2017
 Date of Receipt: 10-13-2017
 Date of Report: 10-16-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Total Samples Submitted: 9

Total Samples Analyzed: 9

Total Samples with Layer Asbestos Content > 1%: 4

Location: Nike-2-01A, Tar And Gravel Roofing; Building 2 Upper Roof Field

Lab ID-Version‡: 8488525-1

Sample Layers	Asbestos Content
Multicolored Rock	ND
Yellow Fibrous Material	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Composite Non-Asbestos Content:	40% Cellulose 3% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: Nike-2-01B, Tar And Gravel Roofing; Building 2 Lower Roof Field

Lab ID-Version‡: 8488526-1

Sample Layers	Asbestos Content
Multicolored Rock	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	50% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Poor

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: RGA Environmental, Inc.
C/O: Mr. Steffen Steiner
Re: R1177B67; Nike Missile Base/San Leandro, CA /
Building 2

Date of Sampling: 10-11-2017
Date of Receipt: 10-13-2017
Date of Report: 10-16-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116**Location: Nike-2-01C, Tar And Gravel Roofing; Building 2 Lower Roof Field**

Lab ID-Version‡: 8488527-1

Sample Layers	Asbestos Content
Multicolored Rock with Black Roofing Tar	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	65% Cellulose
Sample Composite Homogeneity:	Poor

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Client: RGA Environmental, Inc.
C/O: Mr. Steffen Steiner
Re: R1177B67; Nike Missile Base/San Leandro, CA /
Building 2

Date of Sampling: 10-11-2017
Date of Receipt: 10-13-2017
Date of Report: 10-16-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116**Location: Nike-2-02A, Gray/Silver Roof Patching; Building 2 Lower Roof West Side****Perimeter**

Lab ID-Version‡: 8488528-1

Sample Layers	Asbestos Content
Gray/Black Roofing Mastic	10% Chrysotile
Dark Brown Fibrous Material	ND
Composite Non-Asbestos Content:	5% Cellulose
Sample Composite Homogeneity:	Moderate

Location: Nike-2-02B, Gray/Silver Roof Patching; Building 2 Lower Roof South Side

Lab ID-Version‡: 8488529-1

Sample Layers	Asbestos Content
Gray/Black Roofing Mastic	10% Chrysotile
Composite Non-Asbestos Content:	< 1% Cellulose
Sample Composite Homogeneity:	Moderate

Location: Nike-2-03A, Roof Flashing; Building 2 Lower Roof East Side

Lab ID-Version‡: 8488530-1

Sample Layers	Asbestos Content
Black Roof Flashing	15% Chrysotile
Composite Non-Asbestos Content:	< 1% Cellulose
Sample Composite Homogeneity:	Moderate

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: RGA Environmental, Inc.
 C/O: Mr. Steffen Steiner
 Re: R1177B67; Nike Missile Base/San Leandro, CA /
 Building 2

Date of Sampling: 10-11-2017
 Date of Receipt: 10-13-2017
 Date of Report: 10-16-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116**Location: Nike-2-03B, Roof Flashing; Building 2 Lower Roof East Side**

Lab ID-Version‡: 8488531-1

Sample Layers	Asbestos Content
Black Roof Flashing	15% Chrysotile
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Composite Non-Asbestos Content:	30% Cellulose
Sample Composite Homogeneity:	Poor

Location: Nike-2-04A, Black Asphaltic Roof Patch On Fiberboard; Building 2 Lower Roof South Side Field

Lab ID-Version‡: 8488532-1

Sample Layers	Asbestos Content
Black Roofing Tar	ND
Black Roofing Felt	ND
Black Roofing Tar	ND
Black Roofing Felt	ND
Black Roofing Tar	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	35% Cellulose
Sample Composite Homogeneity:	Poor

Location: Nike-2-04B, Black Asphaltic Roof Patch On Fiberboard; Building 2 Lower Roof South Side Field

Lab ID-Version‡: 8488533-1

Sample Layers	Asbestos Content
Black Roofing Tar	ND
Black Roofing Felt	ND
Black Roofing Tar	ND
Black Roofing Felt	ND
Black Roofing Tar	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	50% Cellulose
Sample Composite Homogeneity:	Poor

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‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



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ACM BULK SAMPLE DATA SHEET

☒ PLM Analysis (Analyze all samples)
☐ Stop Analysis at First Positive
☐ Point Count Analysis (400-point)

PAGE 1 OF 1

Project Name/ Address/ Building No. Nike Missile Base/San Leandro, CA/ Building 2Project# R1177867 Sampled By: J. Alexander Sampling Date: 10/11/17Sample(s) sent to: ☐ MAL ☐ AERO ☒ EMLAB ☐ OtherTAT ☐ Rush ☐ 24HRS ☒ 48HR ☐ 3-5 days

HM#	Material Description	Sample Location & Material Location	Quantity:
Nike-2-01	Tar and Gravel Roofing		
Nike-2-01A	Building 2 Upper Roof Field		2,000 square feet
Nike-2-01B	Building 2 Lower Roof Field		
Nike-2-01C	Building 2 Lower Roof Field		
HM#	Material Description:	Sample Location & Material Location	Quantity:
Nike-2-02	Gray Roof Patching		
Nike-2-02A	Building 2 Lower Roof South Side Perimeter		70 square feet
Nike-2-02B	Building 2 Lower Roof South Side		
HM#	Material Description:	Sample Location & Material Location	Quantity:
Nike-2-03	Roof Flashing		
Nike-2-03A	Building 2 Lower Roof East Side		30 square feet
Nike-2-03B	Building 2 Lower Roof East Side		
HM#	Material Description:	Sample Location & Material Location	Quantity:
Nike-2-04	Black Asphaltic Roof Patch on Fiberboard		
Nike-2-04A	Building 2 Lower Roof South Side Field		25 square feet
Nike-2-04B	Building 2 Lower Roof South Side Field		
HM#	Material Description:	Sample Location & Material Location	Quantity:

Relinquished By:

Received By:

Relinquished By:

Received By:

Signature:

Signature:

Signature:

Signature:

Date/Time:

Date/Time:

Date/Time:

Date/Time:



Report for:

Mr. Steffen Steiner
RGA Environmental, Inc.
1466 66th Street
Emeryville, CA 94608

Regarding: Project: R1177B67; Nike Missile Base/San Leandro, CA /Building 3
EML ID: 1813354

Approved by:

Dates of Analysis:
Asbestos PLM: 10-16-2017

A handwritten signature in cursive script, reading "Renee Luna-Trepczynski".

Approved Signatory
Renee Luna-Trepczynski

Service SOPs: Asbestos PLM (EPA Methods 600/R-93/116 & 600/M4-82-020, SOP EM-AS-S-1267)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: RGA Environmental, Inc.
 C/O: Mr. Steffen Steiner
 Re: R1177B67; Nike Missile Base/San Leandro, CA /
 Building 3

Date of Sampling: 10-12-2017
 Date of Receipt: 10-13-2017
 Date of Report: 10-16-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Total Samples Submitted: 5

Total Samples Analyzed: 5

Total Samples with Layer Asbestos Content > 1%: 2

Location: Nike-3-01A, Tar And Gravel Roofing; Building 3 North Side Roof Field

Lab ID-Version‡: 8488653-1

Sample Layers	Asbestos Content
Multicolored Rock	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	10% Cellulose 7% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: Nike-3-01B, Tar And Gravel Roofing; Building 3 West Side Roof Field

Lab ID-Version‡: 8488654-1

Sample Layers	Asbestos Content
Multicolored Rock	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	10% Cellulose 7% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: Nike-3-01C, Tar And Gravel Roofing; Building 3 South Side Roof Field

Lab ID-Version‡: 8488655-1

Sample Layers	Asbestos Content
Multicolored Rock	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	10% Cellulose 7% Glass Fibers
Sample Composite Homogeneity:	Poor

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‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: RGA Environmental, Inc.
C/O: Mr. Steffen Steiner
Re: R1177B67; Nike Missile Base/San Leandro, CA /
Building 3

Date of Sampling: 10-12-2017
Date of Receipt: 10-13-2017
Date of Report: 10-16-2017

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116**Location: Nike-3-02A, Silver Penetration Mastic; Building 3 Southeast Penetration**

Lab ID-Version‡: 8488656-1

Sample Layers	Asbestos Content
Gray/Black Roofing Mastic	2% Chrysotile
Composite Non-Asbestos Content:	3% Wollastonite 2% Cellulose
Sample Composite Homogeneity:	Good

Location: Nike-3-02B, Silver Penetration Mastic; Building 3 Southeast Penetration

Lab ID-Version‡: 8488657-1

Sample Layers	Asbestos Content
Gray/Black Roofing Mastic	2% Chrysotile
Composite Non-Asbestos Content:	3% Wollastonite 2% Cellulose
Sample Composite Homogeneity:	Good

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



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ACMI BULK SAMPLE DATA SHEET

☒ PLM Analysis (Analyze all samples)
☐ Stop Analysis at First Positive
☐ Point Count Analysis (400-point)

PAGE 1 OF 1

Project Name/ Address/ Building No. Nike Missile Base/ San Leandro, CA / Building 3
 Project# R177867 Sampled By: J. Alexander Sampling Date: 10/12/17
 Sample(s) sent to: ☐ MAL ☐ AFRO ☒ EMLAB ☐ Other
 TAT ☐ Rush ☐ 24HRS ☒ 48HR ☐ 3-5 days

HM#	Material Description	Sample ID	Sample Location & Material Location	Quantity:
Nike-3-01	Tar and Gravel Roofing			
Nike-3-01A	Building 3 North Side Roof Field			600 square feet
Nike-3-01B	Building 3 West Side Roof Field			
Nike-3-01C	Building 3 South Side Roof Field			
HM# Nike-3-02	Material Description: Silver Penetration Mastic			
Nike-3-02A	Building 3 Southeast Penetration			3 square feet
Nike-3-02B	Building 3 Southeast Penetration			
HM#	Material Description:	Sample ID	Sample Location & Material Location	Quantity:
HM#	Material Description:	Sample ID	Sample Location & Material Location	Quantity:
HM#	Material Description:	Sample ID	Sample Location & Material Location	Quantity:
HM#	Material Description:	Sample ID	Sample Location & Material Location	Quantity:

Relinquished By:

Received By:

Relinquished By:

Received By:

Signature:

Signature:

Signature:

Signature:

Date/Time:

Date/Time:

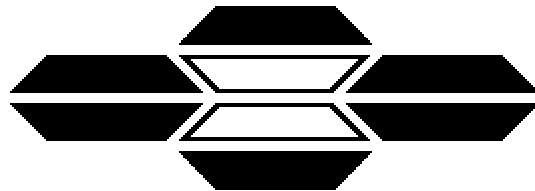
Date/Time:

Date/Time:



Appendix 2:

Laboratory Results and Chains of Custody - Lead



ASBESTOS TEM LABORATORIES, INC.

ATEM SOP-AA-01
(EPA 3050B/EPA 7420)

Lead Paint Analysis Report

Laboratory Job # 357349

600 Bancroft Way, Ste. A
Berkeley, CA 94710
(510) 704-8930
FAX (510) 704-8429



ASBESTOS TEM LABORATORIES, INC



Apr/26/2018

W. Frieszell
Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

RE: LABORATORY JOB # 357349

Atomic Absorption Spectroscopy analytical results for 5 paint sample(s).
Job Site: Nike Missile Site Bldg B, 2892 Fairmont Dr., San Leandro
Job No.: R1187351

Enclosed please find results for the atomic absorption spectroscopy (AA) metals analysis of one or more paint samples. Sample preparation and analysis procedures were performed according to ATEM SOP-AA-01 (EPA 3050B / EPA 7420).

Prior to analysis, samples are checked for damage and disruption of the chain-of-custody seal. Samples are then logged-in, each given a unique laboratory number, and a hard copy containing all pertinent information is generated. This, and all other relevant paper work are kept with each sample throughout the analytical procedures to assure proper analysis.

A portion of each sample is weighed out such that an aliquot of ~0.2 grams is obtained. The weighed sample material is then placed into a digestion vessel, transferred to a fume hood, heated at ~95 Deg. C, refluxed with nitric acid to solubilize the contained metals, and treated with hydrogen peroxide to oxidize any organic binder present in the sample material. High purity water is added to make a 50 ml volume for each sample.

AA analysis is performed on a microprocessor controlled Perkin Elmer AAnalyst 300 atomic absorption spectrophotometer, operating in the flame mode. Samples are diluted as needed to allow reading of concentrations in the calibration range. QC analyses are prepared and performed along with each sample batch to ensure accurate analytical determinations. Data is compiled into a standard report format and subjected to a thorough quality assurance check before the information is released to the client. Note: Sample results are not corrected for contamination based on the field blank(s) or other analytical blank(s).

Sincerely Yours,

ASBESTOS TEM LABORATORIES, INC.

--- Results for routine quality control samples run in parallel to the samples reported here were within acceptable limits. These results relate only to the sample(s) tested and must not be reproduced, except in full, with the approval of the laboratory. ---

ATOMIC ABSORPTION SPECTROSCOPY LEAD PAINT ANALYSIS REPORT ATEM SOP-AA-01 (EPA 3050B / EPA 7000B)

Page: **3** of **3**

Contact: W. Frieszell Address: Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608		Samples Submitted: 5 Samples Analyzed: 5 Job Site / No. Nike Missile Site Bldg B, 2892 Fairmont R1187351		Report No.: 357349 Date Submitted: Apr-19-18 Date Reported: Apr-26-18	
--	--	--	--	--	--

SAMPLE ID	METAL	SAMPLE RESULT	REPORTING LIMIT	LOCATION / DESCRIPTION
B-Pb-1 Lab ID # 1434-03380-001	Pb	12000 mg/kg 1.200 %	41 mg/kg 0.004 %	Grey. CMU. Exterior wall. Bldg B(3) South wall <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> Apr-19-18 Apr-26-18 0.2413
B-Pb-2 Lab ID # 1434-03380-002	Pb	4500 mg/kg 0.450 %	42 mg/kg 0.004 %	Green. Metal. Exterior metal wall. Bldg B (3) - Addition north wall. <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> Apr-19-18 Apr-26-18 0.2369
B-Pb-3 Lab ID # 1434-03380-003	Pb	140 mg/kg 0.014 %	37 mg/kg 0.004 %	Window caulk. Door window caulk. Bldg B (3) - West door - Window <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> Apr-19-18 Apr-26-18 0.2672
B-Pb-4 Lab ID # 1434-03380-004	Pb	23000 mg/kg 2.300 %	44 mg/kg 0.004 %	Tan. Metal. Pole. Bldg 3 <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> Apr-19-18 Apr-26-18 0.2252
B-Pb-5 Lab ID # 1434-03380-005	Pb	6100 mg/kg 0.610 %	49 mg/kg 0.005 %	Green. CMU. Wall. Bldg 3 Interior wall <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> Apr-19-18 Apr-26-18 0.204
				<u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u>
				<u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u>
				<u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u>
				<u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u>
				<u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u>

Analytical results posted above relate only to the material(s) tested.
 The sample has not been blank corrected.

µg - micrograms 1% = 10,000 ppm 1ppm = 1 mg/Kg

Lab QC Reviewer Jo Ann Huerto
 Jo Ann Huerto

Analyst Jie Zhang
 Jie Zhang

B-3 7 12.2
12.1

B 3

357349
Terracon

E-MAIL REPORT TO: SEE BELOW PROJECT MANAGER (PM) ***ADDITIONAL RECIPIENTS*** <input type="checkbox"/> denise.wallen@terracon.com <input type="checkbox"/> eric.dyer@terracon.com		LEAD PAINT SAMPLE DATA SHEET *Lead Analysis <input checked="" type="checkbox"/> Plame AA (EPA 7420) <input type="checkbox"/> TTLC PAGE <u>1</u> OF <u>1</u>	
<input type="checkbox"/> PM - S. Steiner ssteiner@terracon.com	<input type="checkbox"/> PM - K. Schipeter kschpeter@terracon.com	<input checked="" type="checkbox"/> PM - W. Enezzel wenezzel@terracon.com	<input type="checkbox"/> PM - T. Katchee tkatchee@terracon.com
<input type="checkbox"/> PM - K. Pligim kpligim@terracon.com	<input type="checkbox"/> PM - M. Benetfield mbenetfield@terracon.com		

Project Name/ Address/ Building No. Nike Missile Bldg B, 2892 Fairmont Dr., San Leandro, CA
 Project# R1187351 Sampled By: R. Caldwell Sampling Date: 4/19/18
 Sample(s) sent to: ☐ MAL ☐ EMSL ☐ Aerobiology ☐ Quantum Other TKM
 TAT ☐ Rush ☐ 24HRS ☐ 48HRS ☒ 5 Day

Sample ID	Paint Description and Sample Location			Condition (I/F/P)
B-1 Ph-1	Paint Color: <u>Gray</u>	Substrate: <u>CMU</u>	Component: <u>Exterior Wall</u>	
	Sample Location: Bldg # <u>Bldg B(3)</u>	Unit # <u></u>	Room <u>South Wall</u>	
B-2 Ph-2	Paint Color: <u>Green</u>	Substrate: <u>Metal</u>	Component: <u>Exterior Metal Wall</u>	
	Sample Location: Bldg # <u>Bldg B(3)</u>	Unit # <u></u>	Room <u>Addition North Wall</u>	
B-3 Ph-3	Paint Color: <u>Window Caulk</u>	Substrate: <u></u>	Component: <u>Door Window Caulk</u>	
	Sample Location: Bldg # <u>Bldg B(3)</u>	Unit # <u></u>	Room <u>West Door Window</u>	
B-4 Ph-4	Paint Color: <u>Tan</u>	Substrate: <u>Metal</u>	Component: <u>Pole</u>	
	Sample Location: Bldg # <u>Bldg 3</u>	Unit # <u></u>	Room <u></u>	
B-5 Ph-5	Paint Color: <u>Green</u>	Substrate: <u>CMU</u>	Component: <u>Wall</u>	
	Sample Location: Bldg # <u>Bldg 3</u>	Unit # <u></u>	Room <u>Interior Wall</u>	

Relinquished By:

Randy Caldwell
Gabriela

Signature:

[Signature]

Date/Time:

4/19/18

Received By:

Signature:

Date/Time:

Received By:

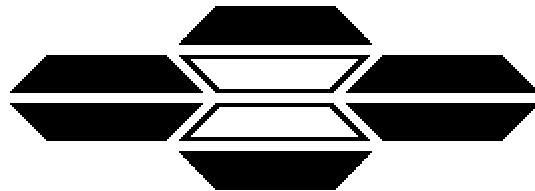
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Date/Time:

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ASBESTOS TEM LABORATORIES, INC.

ATEM SOP-AA-01
(EPA 3050B/EPA 7420)

Lead Paint Analysis Report

Laboratory Job # 357347

600 Bancroft Way, Ste. A
Berkeley, CA 94710
(510) 704-8930
FAX (510) 704-8429



ASBESTOS TEM LABORATORIES, INC



Apr/26/2018

W. Frieszell
Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

RE: LABORATORY JOB # 357347

Atomic Absorption Spectroscopy analytical results for 5 paint sample(s).
Job Site: Nike Missile Site, Bldg C, 1289 Fairmont Dr., San Leandro
Job No.: R1187351

Enclosed please find results for the atomic absorption spectroscopy (AA) metals analysis of one or more paint samples. Sample preparation and analysis procedures were performed according to ATEM SOP-AA-01 (EPA 3050B / EPA 7420).

Prior to analysis, samples are checked for damage and disruption of the chain-of-custody seal. Samples are then logged-in, each given a unique laboratory number, and a hard copy containing all pertinent information is generated. This, and all other relevant paper work are kept with each sample throughout the analytical procedures to assure proper analysis.

A portion of each sample is weighed out such that an aliquot of ~0.2 grams is obtained. The weighed sample material is then placed into a digestion vessel, transferred to a fume hood, heated at ~95 Deg. C, refluxed with nitric acid to solubilize the contained metals, and treated with hydrogen peroxide to oxidize any organic binder present in the sample material. High purity water is added to make a 50 ml volume for each sample.

AA analysis is performed on a microprocessor controlled Perkin Elmer AAnalyst 300 atomic absorption spectrophotometer, operating in the flame mode. Samples are diluted as needed to allow reading of concentrations in the calibration range. QC analyses are prepared and performed along with each sample batch to ensure accurate analytical determinations. Data is compiled into a standard report format and subjected to a thorough quality assurance check before the information is released to the client. Note: Sample results are not corrected for contamination based on the field blank(s) or other analytical blank(s).

Sincerely Yours,

ASBESTOS TEM LABORATORIES, INC.

--- Results for routine quality control samples run in parallel to the samples reported here were within acceptable limits. These results relate only to the sample(s) tested and must not be reproduced, except in full, with the approval of the laboratory. ---

ATOMIC ABSORPTION SPECTROSCOPY LEAD PAINT ANALYSIS REPORT ATEM SOP-AA-01 (EPA 3050B / EPA 7000B)

Page: **3** of **3**


Contact: W. Frieszell Address: Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608		Samples Submitted: 5 Samples Analyzed: 5 Job Site / No. Nike Missile Site, Bldg C, 1289 R1187351		Report No.: 357347 Date Submitted: Apr-19-18 Date Reported: Apr-26-17	
--	--	--	--	--	--

SAMPLE ID	METAL	SAMPLE RESULT	REPORTING LIMIT	LOCATION / DESCRIPTION
C-Pb-1 Lab ID # 1434-03378-001	Pb	4100 mg/kg 0.410 %	44 mg/kg 0.004 %	Green. CMU. Exterior. Exterior west. <div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> Apr-19-18 <u>Analysis Date</u> Apr-26-18 <u>Analyzed Weight (g)</u> 0.2255 </div>
C-Pb-2 Lab ID # 1434-03378-002	Pb	1100 mg/kg 0.110 %	47 mg/kg 0.005 %	Green. CMU. Interior - west - North office. <div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> Apr-19-18 <u>Analysis Date</u> Apr-26-18 <u>Analyzed Weight (g)</u> 0.2119 </div>
C-Pb-3 Lab ID # 1434-03378-003	Pb	1600 mg/kg 0.160 %	49 mg/kg 0.005 %	Red. Concrete. Floor. Lounge room <div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> Apr-19-18 <u>Analysis Date</u> Apr-26-18 <u>Analyzed Weight (g)</u> 0.2046 </div>
C-Pb-4 Lab ID # 1434-03378-004	Pb	4100 mg/kg 0.410 %	44 mg/kg 0.004 %	Glazing. Metal. Window. North hinge. <div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> Apr-19-18 <u>Analysis Date</u> Apr-26-18 <u>Analyzed Weight (g)</u> 0.227 </div>
C-Pb-5 Lab ID # 1434-03378-005	Pb	21000 mg/kg 2.100 %	47 mg/kg 0.005 %	Yellow. Metal. Metal plates. Floor trench. <div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> Apr-19-18 <u>Analysis Date</u> Apr-26-18 <u>Analyzed Weight (g)</u> 0.2146 </div>
				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>
				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>
				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>
				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>
				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>

Analytical results posted above relate only to the material(s) tested.
The sample has not been blank corrected.

µg - micrograms 1% = 10,000 ppm 1ppm = 1 mg/Kg

Lab QC Reviewer 
Jo Ann Huerto

Analyst 
Jie Zhang

357347
C 2 Terracon

E-MAIL REPORT TO: SEE BELOW PROJECT MANAGER (PM) ***ADDITIONAL RECIPIENTS***		LEAD PAINT SAMPLE DATA SHEET * Lead Analysis <input checked="" type="checkbox"/> Flame AA (EPA 7420) <input type="checkbox"/> TTLC	
<input type="checkbox"/> denise.wallen@terracon.com		<input type="checkbox"/> eric.dyer@terracon.com	
<input type="checkbox"/> PM - S. Steiner ssteiner@terracon.com	<input type="checkbox"/> PM - K. Schroeter kschroeter@terracon.com	<input checked="" type="checkbox"/> PM - W. Frieszell wfrieszell@terracon.com	<input type="checkbox"/> PM - T. Kallchoe tkallchoe@terracon.com
		<input type="checkbox"/> PM - K. Pilgrim kpilgrim@terracon.com	<input type="checkbox"/> PM - M. Benefield mbenefield@terracon.com

Project Name/ Address/ Building No. Nike Missile Bldg C, 2892 Fairmont Dr., San Leandro, CA
 Project# R1187351 Sampled By: R. Caldwell Sampling Date: 4/19/18
 Sample(s) sent to: ☐ MAL ☐ EMSL ☐ Aerobiology ☐ Quantum Other _____
 TAT ☐ Rush ☐ 24HRS ☐ 48HRS ☒ 3-5 Day

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
Ph. C-1	Paint Color: <u>Green</u> Substrate: <u>Cmc</u> Component: <u>Exterior</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Exterior west</u>	
Ph. C-2	Paint Color: <u>Green</u> Substrate: <u>Cmc</u> Component: <u>Interior</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Interior - west-north side</u>	
Ph. C-3	Paint Color: <u>Red</u> Substrate: <u>Concrete</u> Component: <u>Floor</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Large Room</u>	
Ph. C-4	Paint Color: <u>Glazing</u> Substrate: <u>Metal</u> Component: <u>Window</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>North side</u>	
Ph. C-5	Paint Color: <u>Yellow</u> Substrate: <u>Metal</u> Component: <u>Metal plates</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Floor trench</u>	

Relinquished By:

Randy Caldwell
Abille

Signature:

Ph. C-5
SM

Date/Time:

4/19/18

Received By:

Signature:

Date/Time:

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Signature:

Date/Time:

2

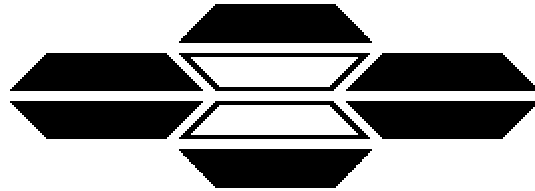
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ASBESTOS TEM LABORATORIES, INC.

ATEM SOP-AA-01
(EPA 3050B/EPA 7420)

Lead Paint Analysis Report

Laboratory Job # 357348

600 Bancroft Way, Ste. A
Berkeley, CA 94710
(510) 704-8930
FAX (510) 704-8429



ASBESTOS TEM LABORATORIES, INC



Apr/26/2018

W. Frieszell
Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

RE: LABORATORY JOB # 357348

Atomic Absorption Spectroscopy analytical results for 5 paint sample(s).

Job Site: Nike Missile Site Bldg D, 2892 Fairmont Dr., San Leandro

Job No.: R1187351

Enclosed please find results for the atomic absorption spectroscopy (AA) metals analysis of one or more paint samples. Sample preparation and analysis procedures were performed according to ATEM SOP-AA-01 (EPA 3050B / EPA 7420).

Prior to analysis, samples are checked for damage and disruption of the chain-of-custody seal. Samples are then logged-in, each given a unique laboratory number, and a hard copy containing all pertinent information is generated. This, and all other relevant paper work are kept with each sample throughout the analytical procedures to assure proper analysis.

A portion of each sample is weighed out such that an aliquot of ~0.2 grams is obtained. The weighed sample material is then placed into a digestion vessel, transferred to a fume hood, heated at ~95 Deg. C, refluxed with nitric acid to solubilize the contained metals, and treated with hydrogen peroxide to oxidize any organic binder present in the sample material. High purity water is added to make a 50 ml volume for each sample.

AA analysis is performed on a microprocessor controlled Perkin Elmer AAnalyst 300 atomic absorption spectrophotometer, operating in the flame mode. Samples are diluted as needed to allow reading of concentrations in the calibration range. QC analyses are prepared and performed along with each sample batch to ensure accurate analytical determinations. Data is compiled into a standard report format and subjected to a thorough quality assurance check before the information is released to the client. Note: Sample results are not corrected for contamination based on the field blank(s) or other analytical blank(s).

Sincerely Yours,

ASBESTOS TEM LABORATORIES, INC.

--- Results for routine quality control samples run in parallel to the samples reported here were within acceptable limits. These results relate only to the sample(s) tested and must not be reproduced, except in full, with the approval of the laboratory. ---

ATOMIC ABSORPTION SPECTROSCOPY LEAD PAINT ANALYSIS REPORT ATEM SOP-AA-01 (EPA 3050B / EPA 7000B)

Page: **3** of **3**


Contact: W. Frieszell Address: Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608		Samples Submitted: 5 Samples Analyzed: 5 Job Site / No. Nike Missile Site Bldg D, 2892 Fairmont R1187351		Report No.: 357348 Date Submitted: Apr-19-18 Date Reported: Apr-26-18	
--	--	--	--	--	--

SAMPLE ID	METAL	SAMPLE RESULT	REPORTING LIMIT	LOCATION / DESCRIPTION
D-Pb-1 Lab ID # 1434-03379-001	Pb	8200 mg/kg 0.820 %	45 mg/kg 0.005 %	Green. CMU. Wall. Exterior - East wall (throughout) <div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> Apr-19-18 <u>Analysis Date</u> Apr-26-18 <u>Analyzed Weight (g)</u> 0.2203 </div>
D-Pb-2 Lab ID # 1434-03379-002	Pb	7100 mg/kg 0.710 %	50 mg/kg 0.005 %	Light red. CMU. Wall. Interior - South room - East wall <div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> Apr-19-18 <u>Analysis Date</u> Apr-26-18 <u>Analyzed Weight (g)</u> 0.201 </div>
D-Pb-3 Lab ID # 1434-03379-003	Pb	1600 mg/kg 0.160 %	41 mg/kg 0.004 %	Green. CMU. Wall. Interior - North room - North wall <div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> Apr-19-18 <u>Analysis Date</u> Apr-26-18 <u>Analyzed Weight (g)</u> 0.2436 </div>
D-Pb-4 Lab ID # 1434-03379-004	Pb	8000 mg/kg 0.800 %	40 mg/kg 0.004 %	Peach. Drywall. Wall. Interior - West room - North wall <div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> Apr-19-18 <u>Analysis Date</u> Apr-26-18 <u>Analyzed Weight (g)</u> 0.2493 </div>
D-Pb-5 Lab ID # 1434-03379-005	Pb	4700 mg/kg 0.470 %	49 mg/kg 0.005 %	Caulk. Wood/Glass. Window. South room west wall. <div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> Apr-19-18 <u>Analysis Date</u> Apr-26-18 <u>Analyzed Weight (g)</u> 0.205 </div>
				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>
				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>
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				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>

Analytical results posted above relate only to the material(s) tested.
The sample has not been blank corrected.

µg - micrograms 1% = 10,000 ppm 1ppm = 1 mg/Kg

Lab QC Reviewer 
Jo Ann Huerto

Analyst 
Jie Zhang

357348
D 1
Terracon

E-MAIL REPORT TO: SEE BELOW PROJECT MANAGER (PM) ***ADDITIONAL RECIPIENTS*** <input type="checkbox"/> denise.wall@terracon.com <input type="checkbox"/> eric.dyer@terracon.com		LEAD PAINT SAMPLE DATA SHEET * Lead Analysis <input checked="" type="checkbox"/> Plame AA (EPA 7420) <input type="checkbox"/> TTLC PAGE <u>1</u> OF <u>1</u>	
<input type="checkbox"/> PM - S. Steiner ssteiner@terracon.com	<input type="checkbox"/> PM - K. Schroeter kschroeter@terracon.com	<input checked="" type="checkbox"/> PM - W. Fessell wfessell@terracon.com	<input type="checkbox"/> PM - T. Kattchee tkattchee@terracon.com
<input type="checkbox"/> PM - K. Pilgrim kpilgrim@terracon.com	<input type="checkbox"/> PM - M. Benefield mbenefield@terracon.com		

Project Name/ Address/ Building No. Nike Missile Bldg D, 2892 Fairmont Dr., San Leandro CA
 Project# R1187351 Sampled By: R. G. Allen Sampling Date: 4/19/18
 Sample(s) sent to: ☐ MAL ☐ EMSL ☐ Aerobiology ☐ Quantem Other TEA
 TAT ☐ Rush ☐ 24HRS ☐ 48HRS ☒ 4-5 Day

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
<u>P-1</u>	Paint Color: <u>Green</u> Substrate: <u>CMU</u> Component: <u>WALL</u> Sample Location: Bldg # <u>1</u> Unit # <u>1</u> Room <u>1</u> <u>Exterior East wall (throughout)</u>	
<u>P-2</u>	Paint Color: <u>Light Red</u> Substrate: <u>CMU</u> Component: <u>WALL</u> Sample Location: Bldg # <u>1</u> Unit # <u>1</u> Room <u>1</u> <u>Exterior Bay Area Paint Interior - South Room East wall</u>	
<u>P-3</u>	Paint Color: <u>Green</u> Substrate: <u>CMU</u> Component: <u>WALL</u> Sample Location: Bldg # <u>1</u> Unit # <u>1</u> Room <u>1</u> <u>Interior - North Room - West wall</u>	
<u>P-4</u>	Paint Color: <u>Peach</u> Substrate: <u>Pry wall</u> Component: <u>WALL</u> Sample Location: Bldg # <u>1</u> Unit # <u>1</u> Room <u>1</u> <u>Interior - West Room - North wall</u>	
<u>P-5</u>	Paint Color: <u>Caulk</u> Substrate: <u>wood/brick</u> Component: <u>Window</u> Sample Location: Bldg # <u>1</u> Unit # <u>1</u> Room <u>1</u> <u>South Room West wall</u>	

Relinquished By:

Renee Caldwell
Gabriela

Signature:

[Signature]
[Signature]

Date/Time:

4/19/18
APR 19 10 41Z 2018

Received By:

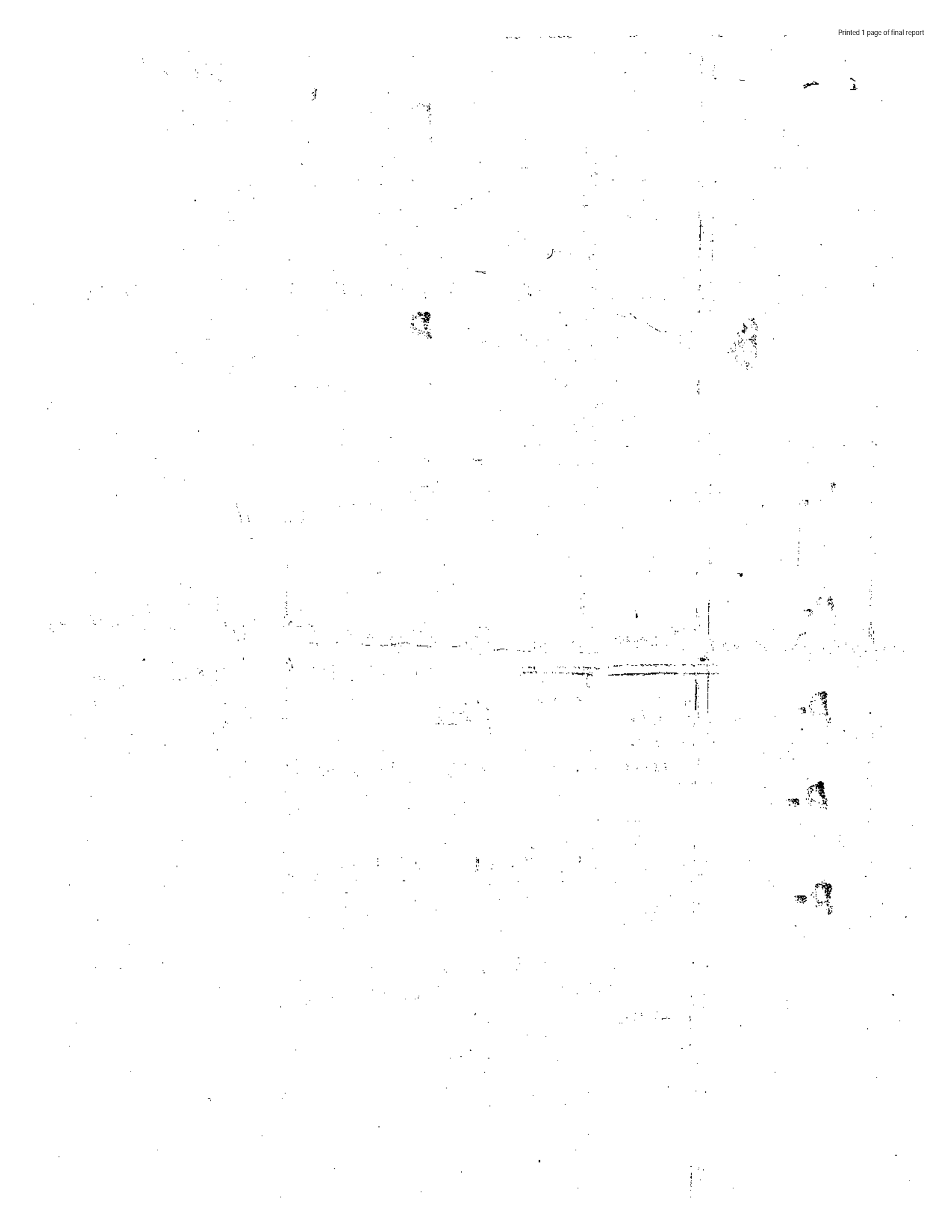
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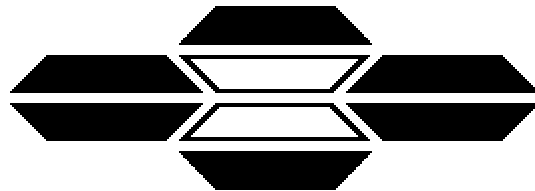
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Date/Time:





ASBESTOS TEM LABORATORIES, INC.

ATEM SOP-AA-01
(EPA 3050B/EPA 7420)

Lead Paint Analysis Report

Laboratory Job # 357350

600 Bancroft Way, Ste. A
Berkeley, CA 94710
(510) 704-8930
FAX (510) 704-8429



ASBESTOS TEM LABORATORIES, INC



Apr/26/2018

W. Frieszell
Terracon Consultants, Inc.
1466 66th Street
Emeryville, CA 94608

RE: LABORATORY JOB # 357350

Atomic Absorption Spectroscopy analytical results for 3 paint sample(s).

Job Site: Nike Missile Sit, Guard Shack, 2892 Fairmont Dr

Job No.: R1187351

Enclosed please find results for the atomic absorption spectroscopy (AA) metals analysis of one or more paint samples. Sample preparation and analysis procedures were performed according to ATEM SOP-AA-01 (EPA 3050B / EPA 7420).

Prior to analysis, samples are checked for damage and disruption of the chain-of-custody seal. Samples are then logged-in, each given a unique laboratory number, and a hard copy containing all pertinent information is generated. This, and all other relevant paper work are kept with each sample throughout the analytical procedures to assure proper analysis.

A portion of each sample is weighed out such that an aliquot of ~0.2 grams is obtained. The weighed sample material is then placed into a digestion vessel, transferred to a fume hood, heated at ~95 Deg. C, refluxed with nitric acid to solubilize the contained metals, and treated with hydrogen peroxide to oxidize any organic binder present in the sample material. High purity water is added to make a 50 ml volume for each sample.

AA analysis is performed on a microprocessor controlled Perkin Elmer AAnalyst 300 atomic absorption spectrophotometer, operating in the flame mode. Samples are diluted as needed to allow reading of concentrations in the calibration range. QC analyses are prepared and performed along with each sample batch to ensure accurate analytical determinations. Data is compiled into a standard report format and subjected to a thorough quality assurance check before the information is released to the client. Note: Sample results are not corrected for contamination based on the field blank(s) or other analytical blank(s).

Sincerely Yours,

ASBESTOS TEM LABORATORIES, INC.

--- Results for routine quality control samples run in parallel to the samples reported here were within acceptable limits. These results relate only to the sample(s) tested and must not be reproduced, except in full, with the approval of the laboratory. ---

ATOMIC ABSORPTION SPECTROSCOPY LEAD PAINT ANALYSIS REPORT ATEM SOP-AA-01 (EPA 3050B / EPA 7000B)

Page: **3** of **3**


Contact: W. Frieszell Address: Terracon Consultants, Inc. 1466 66th Street Emeryville, CA 94608		Samples Submitted: 3 Samples Analyzed: 3 Job Site / No. Nike Missile Sit, Guard Shack, 2892 R1187351		Report No.: 357350 Date Submitted: Apr-19-18 Date Reported: Apr-26-18	
--	--	--	--	--	--

SAMPLE ID	METAL	SAMPLE RESULT	REPORTING LIMIT	LOCATION / DESCRIPTION
X-Pb-1 Lab ID # 1434-03381-001	Pb	4200 mg/kg 0.420 %	45 mg/kg 0.005 %	Green. CMU. Exterior wall. Guard shack, North wall - Exterior <div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> Apr-19-18 <u>Analysis Date</u> Apr-26-18 <u>Analyzed Weight (g)</u> 0.2223 </div>
X-Pb-2 Lab ID # 1434-03381-002	Pb	3800 mg/kg 0.380 %	49 mg/kg 0.005 %	Light red. Drywall. Interior wall. Guard shack - Interior wall <div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> Apr-19-18 <u>Analysis Date</u> Apr-26-18 <u>Analyzed Weight (g)</u> 0.2055 </div>
X-Pb-3 Lab ID # 1434-03381-003	Pb	9700 mg/kg 0.970 %	39 mg/kg 0.004 %	Window caulk. Wood. Glazing. Guard shack - North window. <div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> Apr-19-18 <u>Analysis Date</u> Apr-26-18 <u>Analyzed Weight (g)</u> 0.2537 </div>
				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>
				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>
				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>
				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>
				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>
				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>
				<div style="display: flex; justify-content: space-between; font-size: small;"> <u>Sampling Date</u> <u>Analysis Date</u> <u>Analyzed Weight (g)</u> </div>

Analytical results posted above relate only to the material(s) tested.
 The sample has not been blank corrected.

µg - micrograms 1% = 10,000 ppm 1ppm = 1 mg/Kg

Lab QC Reviewer 
 Jo Ann Huerto

Analyst 
 Jie Zhang

Guard
Shack357350
Terracon

E-MAIL REPORT TO: SEE BELOW PROJECT MANAGER (PM) ***ADDITIONAL RECIPIENTS*** <input type="checkbox"/> denise.wallen@terracon.com <input type="checkbox"/> eric.dyer@terracon.com		LEAD PAINT SAMPLE DATA SHEET * Lead Analysis Flame AA (EPA 7420) _____ TTLC _____ PAGE <u>1</u> OF <u>1</u>	
<input type="checkbox"/> PM - S. Steiner ssteiner@terracon.com	<input type="checkbox"/> PM - K. Schroeter kmschroeter@terracon.com	<input checked="" type="checkbox"/> PM - W. Frieszell wtfrieszell@terracon.com	<input type="checkbox"/> PM - T. Kattchee tkattchee@terracon.com
<input type="checkbox"/> PM - K. Pligim kmpigim@terracon.com	<input type="checkbox"/> PM - M. Benefield mbenefield@terracon.com		

Project Name/ Address/ Building No.

Project#

Sampled By:

Sampling Date:

Sample(s) sent to: ☐ MAL ☐ EMSL ☐ Aerobiology ☒ Quantem Other _____TAT ☐ Rush ☐ 24HRS ☐ 48HRS ☒ 3-5 Day

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
X- Ph-1	Paint Color: <u>Green</u> Substrate: <u>Cmu</u> Component: <u>Exterior wall</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Guard Shack, North Wall - Exterior</u>	
X- Ph-2	Paint Color: <u>Light Red</u> Substrate: <u>Drywall</u> Component: <u>Interior wall</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Guard Shack - Interior wall</u>	
X- Ph-3	Paint Color: <u>Green Caulk</u> Substrate: <u>wood</u> Component: <u>Clay m</u> Sample Location: Bldg # _____ Unit # _____ Room _____ <u>Guard Shack - North Window</u>	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	

Relinquished By:

Received By:

Received By:

Signature:

Signature:

Signature:

Date/Time:

Date/Time:

Date/Time:



2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 | 1.800.822.1650

Environmental Chemistry Analysis Report

QuanTEM Set ID: 286202
Date Received: 10/13/17
Received By: Travis Miller
Date Sampled:
Time Sampled:
Analyst: CR
Date of Report: 10/16/17

Client: RGA Environmental
1466 66th Street
Emeryville, CA 94608
Acct. No.: C018
Project: Nike Missile Base
Location: San Leandro, CA Building 1
Project No.: R1177B67

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	Nike-1-Pb-01	Paint	Lead	5,880	50	ppm	10/16/17 11:35	P EPA 7000B (1)

Authorized Signature: _____

Cherry Rossen, Technical Manager

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. QuanTEM is not responsible for user-supplied data used in calculations.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified

Supplemental Report

QAQC Results

QA ID: 15710

Test: Lead

Date: 10/16/2017

Matrix: Paint

Lab Number: 286202

Approved By: Cherry Rossen

Date Approved: 10/16/2017

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
ICB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	4.5	5	5.5
FCV	4.5	5	5.5
ICV	0.9	1	1.1
RLVS	0.05	0.1	0.15

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
LCS-P1	0.000	1.987	2.139	107.6	1.922	96.7	10.7

Authorized Signature:



Cherry Rossen, Technical Manager

286202

<input checked="" type="checkbox"/> PM - S. Steiner spsteiner@terracon.com <input type="checkbox"/> PM D. Ufferfilge dufferfilge@terracon.com <input type="checkbox"/> PM - W. Frieszell wmfrieszell@terracon.com	<input type="checkbox"/> PM - K. Schroeter kmschroeter@terracon.com <input type="checkbox"/> PM - T. Kattchee takattchee@terracon.com	<input type="checkbox"/> PM - K. Pilgrim kmpilgrim@terracon.com <input type="checkbox"/> PM - M. Benefield msbenefield@terracon.com	LEAD PAINT SAMPLE DATA SHEET <input checked="" type="checkbox"/> * Lead Analysis Flame AA (EPA 7420) _ TTLC PAGE <u>1</u> OF <u>1</u>
--	--	--	--

Project Name/ Address/ Building No. Nike Missile Base / San Leandro, CA / Building 1
 Project# R1177867 Sampled By: J. Alexander Sampling Date: 10/12/17
 Sample(s) sent to: ☐ MAL ☐ EMSL ☐ Aerobiology ☒ Quantem Other _____
 TAT ☐ Rush ☐ 24HRS ☒ 48HRS ☐ 3-5 Day

FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)
 ADDITIONAL REPORT RECIPIENT(S): _____

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
<u>Nike-1-</u> <u>Pb-01</u>	Paint Color: <u>Light Green</u> Substrate: <u>Wood</u> Component: <u>Eaves</u> Sample Location: Bldg # <u>1</u> Unit # _____ Room <u>Exterior</u>	<u>P</u>
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg # _____ Unit # _____ Room _____	

Relinquished By: John Alexander Signature: [Signature] Date/Time: 10/12/17
 Received By: Heidi Santos Signature: [Signature] Date/Time: OCT 12 2017
 Received By: _____ Signature: _____ Date/Time: _____



2033 HERITAGE PARK DR, OKLAHOMA CITY, OK 73120 | 1.800.822.1650

Environmental Chemistry Analysis Report

QuanTEM Set ID: 286200
Date Received: 10/13/17
Received By: Travis Miller
Date Sampled:
Time Sampled:
Analyst: CR
Date of Report: 10/16/17

Client: RGA Environmental
1466 66th Street
Emeryville, CA 94608
Acct. No.: C018
Project: Nike Missile Base
Location: San Leandro, CA Building 2
Project No.: R1177B67

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	Nike-2-Pb-01	Paint	Lead	74,100	50	ppm	10/16/17 11:35	P EPA 7000B (1)

Authorized Signature: _____

Cherry Rossen, Technical Manager

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. QuanTEM is not responsible for user-supplied data used in calculations.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified

Supplemental Report

QAQC Results

QA ID: 15710

Test: Lead

Date: 10/16/2017

Matrix: Paint

Lab Number: 286200

Approved By: Cherry Rossen

Date Approved: 10/16/2017

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
ICB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	4.5	5	5.5
FCV	4.5	5	5.5
ICV	0.9	1	1.1
RLVS	0.05	0.1	0.15

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
LCS-P1	0.000	1.987	2.139	107.6	1.922	96.7	10.7

Authorized Signature:



Cherry Rossen, Technical Manager

256200

<input checked="" type="checkbox"/> PM - S. Steiner spsteiner@terracon.com <input type="checkbox"/> PM D. Ufferfilge dufferfilge@terracon.com <input type="checkbox"/> PM - W. Frieszell wmfrieszell@terracon.com	<input type="checkbox"/> PM - K. Schroeter kmschroeter@terracon.com <input type="checkbox"/> PM - T. Kaltchee takaltchee@terracon.com	<input type="checkbox"/> PM - K. Pilgrim kmpilgrim@terracon.com <input type="checkbox"/> PM- M. Benefield msbenefield@terracon.com	LEAD PAINT SAMPLE DATA SHEET <input checked="" type="checkbox"/> * Lead Analysis <input checked="" type="checkbox"/> Flame AA (EPA 7420) _ TLCL PAGE <u>1</u> OF <u>1</u>
--	--	---	--

Project Name/ Address/ Building No. Nike Missile Base / San Leandro, CA / Building 2
 Project# R1177867 Sampled By: J. Alexander Sampling Date: 10/11/17
 Sample(s) sent to: ☐ MAL ☐ EMSL ☐ Aerobiology ☒ Quantem Other _____
 TAT ☐ Rush ☐ 24HRS ☒ 48HRS ☐ 3-5 Day

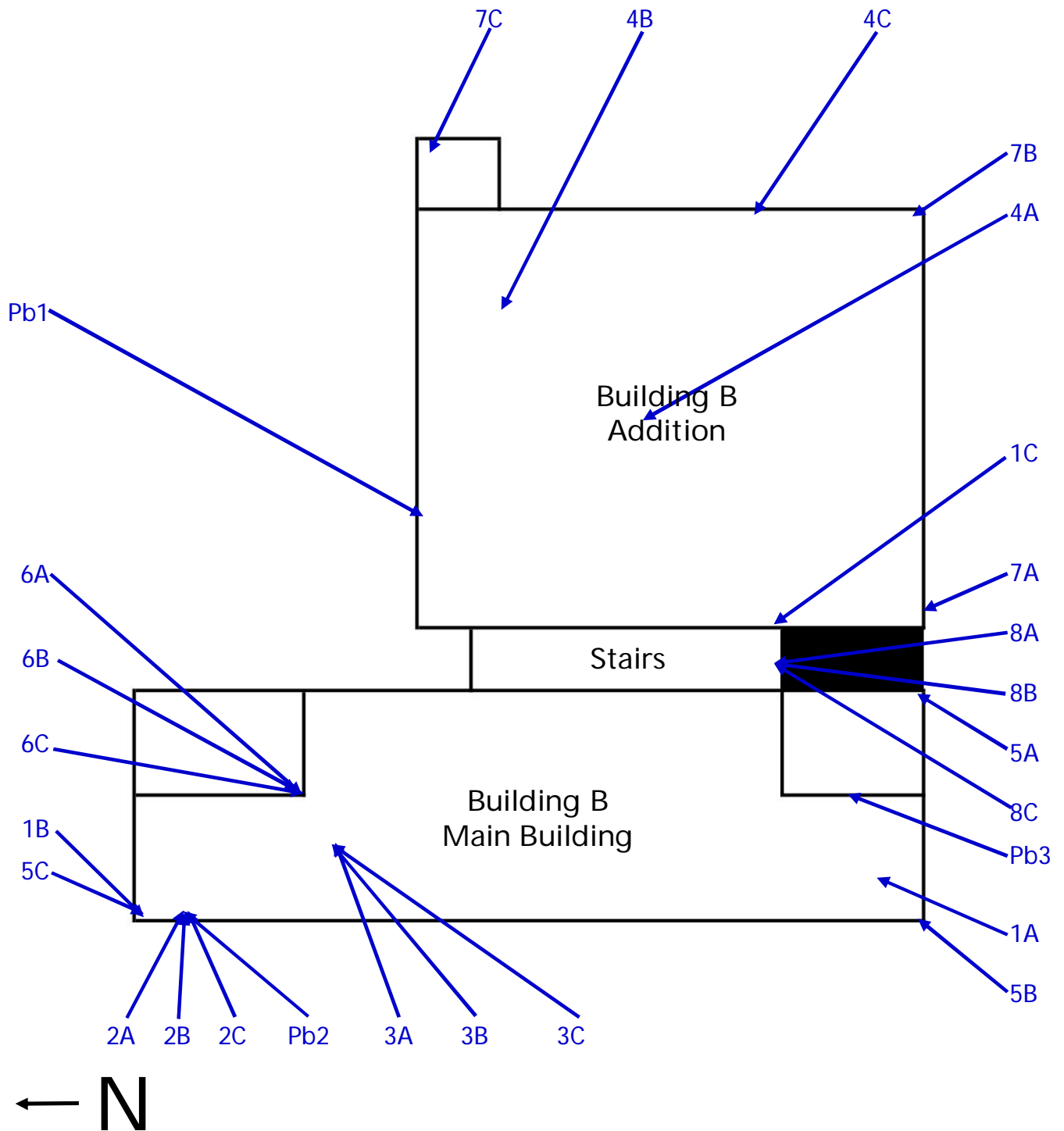
FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)
 ADDITIONAL REPORT RECIPIENT(S): _____


Sample ID	Paint Description and Sample Location	Condition (I/F/P)
Mike-2 -pb-01	Paint Color: <u>Light Green</u> Substrate: <u>Metal</u> Component: <u>HVAC Curb</u> Sample Location: Bldg # <u>2</u> Unit # _____ Room <u>Extension</u>	P

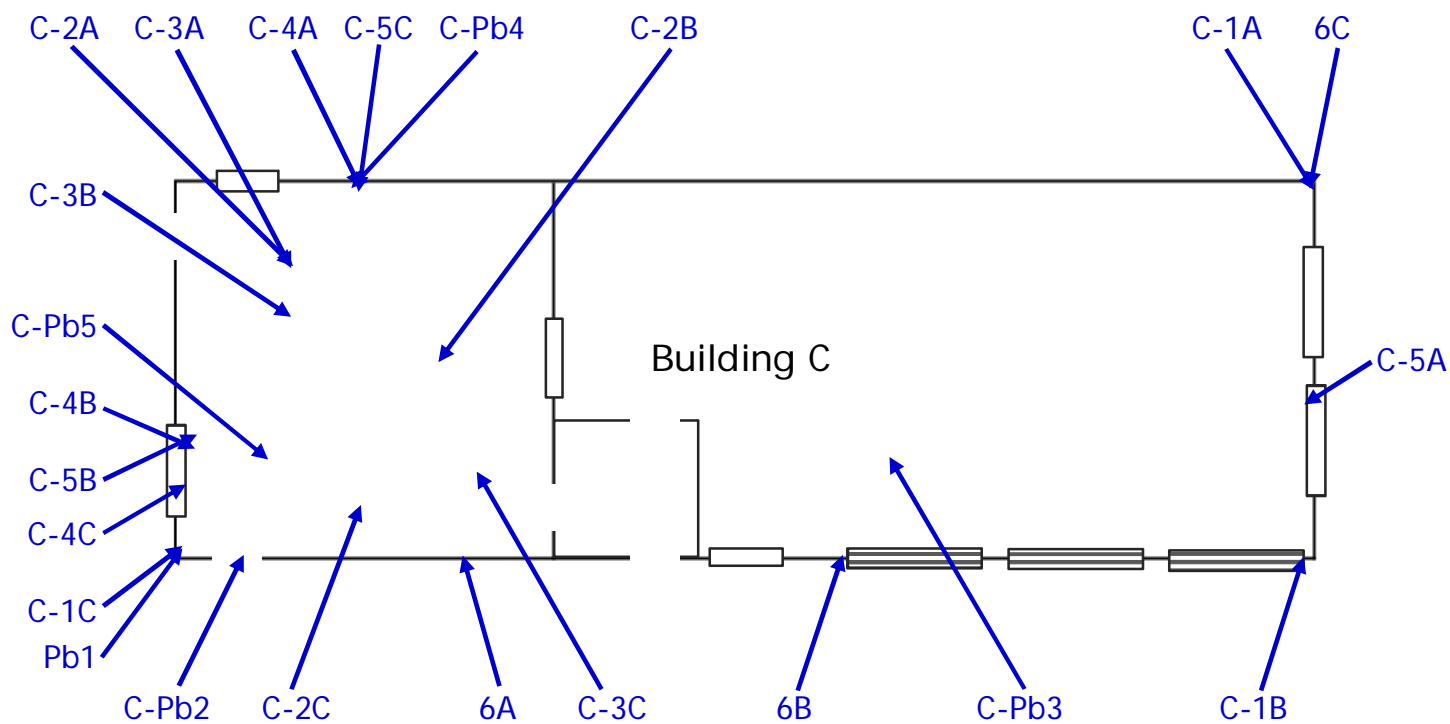
Relinquished By: John Alexander Signature: [Signature] Date/Time: 10/11/17
 Received By: Heidi Santos Signature: _____ Date/ Time: OCT 12 2017
 Received By: _____ Signature: _____ Date/Time: _____




Appendix 3:
Sample Location Diagrams

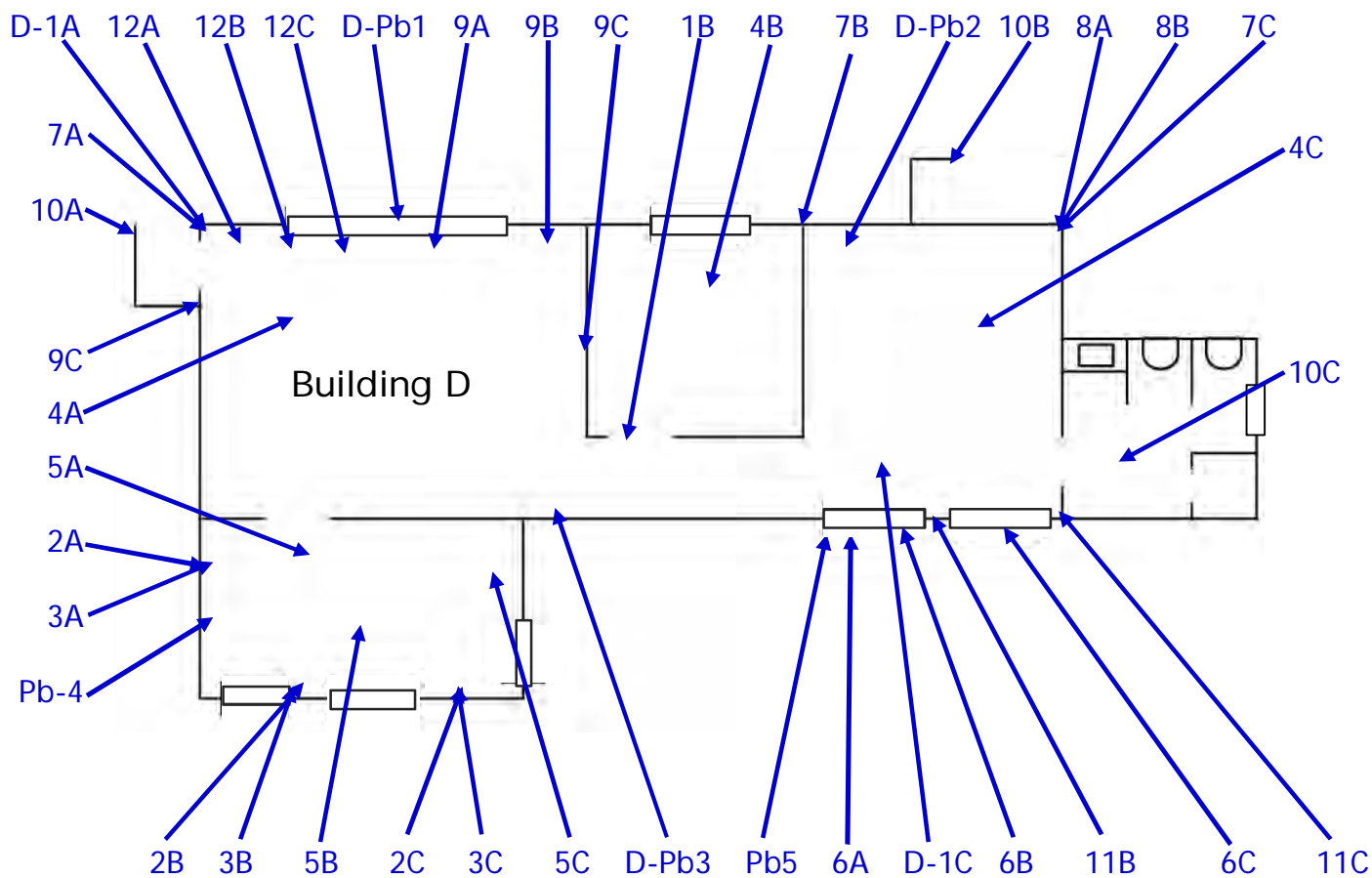


	Former Nike Missile Site Building B		2892 Fairmont Drive San Leandro, California		Not to Scale
	SURVEY DATE: April 19, 2018		PROJECT NO.:	R1187351	FIGURE: 1




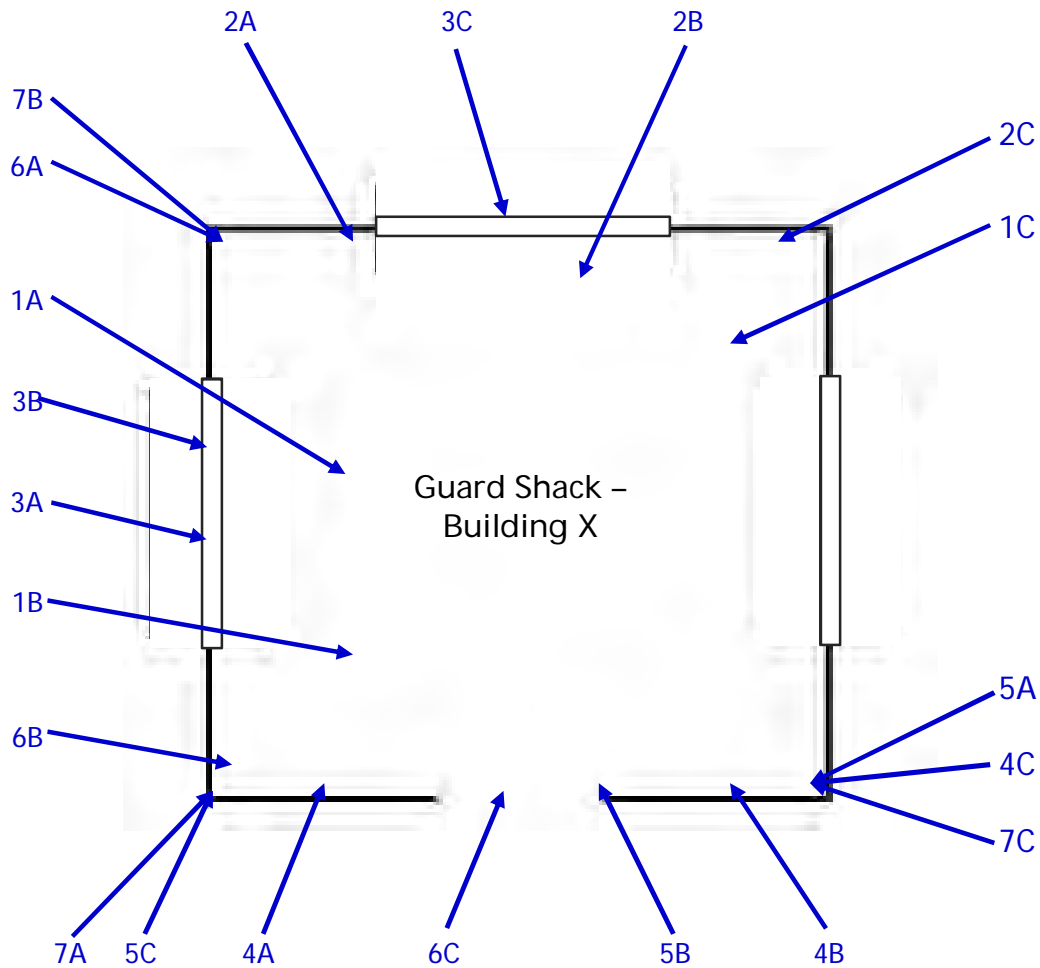
← N

	Former Nike Missile Site Building C		2892 Fairmont Drive San Leandro, California		Not to Scale
	SURVEY DATE: April 19, 2018		PROJECT NO.:	R1187351	FIGURE: 2




← N

	Former Nike Missile Site Building D		2892 Fairmont Drive San Leandro, California		Not to Scale
	SURVEY DATE: April 19, 2018		PROJECT NO.:	R1187351	FIGURE: 3



← N

	Former Nike Missile Site Guard Shack		2892 Fairmont Drive San Leandro, California		Not to Scale
	SURVEY DATE: April 19, 2018		PROJECT NO.:	R1187351	FIGURE: 4





Appendix 4:
Site Inspector Certifications

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Remington R Caldwell

Name

Certification No. **97-2180**

Expires on **05/06/19**



This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California Department of Public Health

Lead-Related
Construction
Certificate

Certificate
Type

Expiration
Date



Inspector/Assessor	10/25/2018
Project Monitor	10/25/2018



Remington R. Caldwell

ID #: 15307

Hay Rd Landfill.

6426 Hay Rd. Vacaville, CA 95687

(707) 678-1492

EPA ID Number: CAD982042475

ACCEPTED MATERIALS

- **Solid Waste**

Municipal Solid Waste (MSW) – Garbage and non-hazardous refuse. This includes mixed waste materials which are NOT recyclable that are generated by residential, commercial, and institutional customers to be disposed of in the landfill.

- **Special Wastes**

- **Ash**

Residual material from a fire which contains non-hazardous levels of metals and minerals.

- **Contaminated Soil**

Soil (with less than 5% debris) that has contamination with constituents below state and federal hazardous limits. RHR requires any soil suspected of contamination to be tested based on generator knowledge and site history.

- **Hazardous Asbestos***

Asbestos containing materials are hazardous if they contain 1% or more friable asbestos. Friable asbestos containing material can be easily crumbled or reduced to powder, becoming an airborne hazard.

- **Non-Hazardous Asbestos***

Asbestos containing materials are non-hazardous if they contain less than 1% friable asbestos. These materials are also non-hazardous if they are non-friable, meaning they cannot be easily crumbled or reduced to powder.

- **Treated Wood Waste**

Wood that has been treated with a chemical preservative (i.e., creosote, copper, arsenic) including railroad ties, grape stakes and other manufactured lumbers (i.e., fence posts, deck pillars).

* Hazardous and non-hazardous asbestos containing materials must be properly bagged, labeled, manifested and scheduled prior to disposal.

- **Other Wastes**

- **Concrete (Clean)**

Clean concrete that is dry and does not contain other demolition materials (i.e., rebar, wood, inerts). Clean concrete is recycled onsite.

- **Construction and Demolition Debris (C&D)**

Includes, but is not limited to concrete, wood, and drywall, usually found as a mixed material.

- **Metal, Appliances and White Goods**

Metal and appliances (i.e., washers, dryers, refrigerators, stoves) containing metal is recycled. White goods containing Freon, oils, electrical circuits, compressor oils, and mercury switches are accepted for an additional appliance surcharge.

- **Soil (Clean)**

Clean soil and dirt are accepted when the required Clean Soil Certification form is completed by the generator. This signed form must be submitted verifying that the soil is clean and free from contaminants.

- **Tires**

Whole car and truck tires, with rims removed, are recycled for an additional fee.

- **Used Motor Oil**

Non-commercial used vehicle motor oil is collected at the Used Oil Collection Center onsite.

- **Yard Trimmings and Food Scraps**

Organic materials are accepted and converted into earth-friendly, nutrient-rich soil amendments at [Jepson Prairie Organics](#).

- **Wood**

Unpainted lumber, pallets and scrap wood are all recycled onsite. If the wood is mixed with non-wood materials, it is considered MSW and will be directed to the landfill.

- **Unaccepted Wastes**

- Unacceptable materials include but are not limited to liquid waste, paint, household hazardous waste (HHW), electronic waste, batteries, fluorescent tubes and bulbs. HHW material may be dropped off at: [855½ Davis Street in Vacaville](#). Open every

Saturday from 9 am – 3 pm (excluding holidays). Additional HHW information can be found at Vacaville Recycling.

- * Hazardous and non-hazardous asbestos containing materials must be properly bagged, labeled, manifested and scheduled prior to disposal.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

9/28/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must have **ADDITIONAL INSURED** provisions or be endorsed. If **SUBROGATION** IS **WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Beecher Carlson Insurance Services 21650 Oxnard Street, Suite 1600 Woodland Hills, CA 91367 www.beechercarlson.com	CONTACT NAME: Beecher Carlson Insurance Services	
	PHONE (A/C, No, Ext): 818-598-4200 FAX (A/C, No): 770-870-3043	
INSURED Recology Hay Road 6426 Hay Road Vacaville CA 95687	E-MAIL ADDRESS:	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A: ACE American Insurance Company	22667
	INSURER B: Ironshore Europe DAC	N/A
	INSURER C: XL Specialty Insurance Company	37885
	INSURER D:	
INSURER E:		
INSURER F:		

COVERAGES**CERTIFICATE NUMBER:** 44622102**REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> SIR: \$500,000 GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			XSL G27629362	10/1/2018	10/1/2019	EACH OCCURRENCE \$1,500,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$1,500,000 MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$1,500,000 GENERAL AGGREGATE \$2,000,000 PRODUCTS - COMP/OP AGG \$2,000,000 \$
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY <input checked="" type="checkbox"/> SIR: \$500K			XSA H08868700	10/1/2018	10/1/2019	COMBINED SINGLE LIMIT (Ea accident) \$1,500,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ Auto Physical Damage \$ Self Insured
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$			PN1800870	10/1/2018	10/1/2019	EACH OCCURRENCE \$5,000,000 AGGREGATE \$5,000,000 \$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		N/A	RWE5000442-04 (includes WA Stop Gap) SIR: \$1,000,000	10/1/2018	10/1/2019	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$2,000,000 E.L. DISEASE - EA EMPLOYEE \$2,000,000 E.L. DISEASE - POLICY LIMIT \$2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDERHay Road Landfill
6426 Hay Road
Vacaville CA 95687**CANCELLATION**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

(WDHLS) Pam Brooskin

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Jared Blumenfeld
Secretary for
Environmental Protection



Department of Toxic Substances Control

Meredith Williams, Ph.D.
Acting Director
1001 "I" Street
P.O. Box 806
Sacramento, California 95812-0806



Gavin Newsom
Governor

EPA ID PROFILE

Map
ID Number:
Name:
County:
NAICS:

CAD982042475
RECOLOGY HAY ROAD
SOLANO
562212

Status:
Inactive Date: ACTIVE
Record Entered:
Last Updated: 6/17/1988 12:00:00 AM
6/17/2019 12:23:54 PM

	Name	Address	City	State	Zip Code	Phone
Location	RECOLOGY HAY ROAD	6426 HAY RD	VACAVILLE	CA	956870000	
Mailing		235 N FIRST ST	DIXON	CA	95620	
Owner	RECOLOGY HAY ROAD	6426 HAY RD	VACAVILLE	CA	956879457	7076784718
Operator/Contact	ENVIRONMENTAL MANAGER	6426 HAY RD	VACAVILLE	CA	956870000	7072493661

Based Only Upon ID Number:

CAD982042475

Calif. Manifests?	Non Calif. Manifests?	Transporter Registration?
Yes	Yes	N/A

California and Non California Manifest Tonnage Total and Waste Code by Year Matrix by Entity Type (if available) are on the next page

Calif. Manifest Counts and Total Tonnage

Top line represents Manifest Count and Bottom line represents Total Tonnage

Year	Generator	Trans. 1	Trans. 2	TSDF	ALT. TSDF
------	-----------	----------	----------	------	-----------

Appendix F

Nosie Measurement Results

Freq Weight : A
Time Weight : FAST
Level Range : 40-100
Max dB : 61.3 - 2019/08/13 11:24:50
Level Range : 40-100
SEL : 71.5
Leq : 42.0

No. s	Date Time	(dB)
1	2019/08/13 11:11:00	41.2
2	2019/08/13 11:11:01	40.7
3	2019/08/13 11:11:02	41.5
4	2019/08/13 11:11:03	44.5
5	2019/08/13 11:11:04	41.7
6	2019/08/13 11:11:05	49.9
7	2019/08/13 11:11:06	42.9
8	2019/08/13 11:11:07	44.1
9	2019/08/13 11:11:08	41.6
10	2019/08/13 11:11:09	42.4
11	2019/08/13 11:11:10	41.1
12	2019/08/13 11:11:11	40.9
13	2019/08/13 11:11:12	40.2
14	2019/08/13 11:11:13	41.1
15	2019/08/13 11:11:14	40.8
16	2019/08/13 11:11:15	40.8
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874	2019/08/13	11: 25: 33	42. 0
875	2019/08/13	11: 25: 34	40. 7
876	2019/08/13	11: 25: 35	44. 1
877	2019/08/13	11: 25: 36	40. 5

878	2019/08/13	11: 25: 37	41. 8
879	2019/08/13	11: 25: 38	42. 2
880	2019/08/13	11: 25: 39	40. 9
881	2019/08/13	11: 25: 40	40. 9
882	2019/08/13	11: 25: 41	41. 2
883	2019/08/13	11: 25: 42	42. 5
884	2019/08/13	11: 25: 43	42. 0
885	2019/08/13	11: 25: 44	41. 9
886	2019/08/13	11: 25: 45	42. 1
887	2019/08/13	11: 25: 46	42. 6
888	2019/08/13	11: 25: 47	41. 7
889	2019/08/13	11: 25: 48	41. 9
890	2019/08/13	11: 25: 49	43. 5
891	2019/08/13	11: 25: 50	41. 6
892	2019/08/13	11: 25: 51	41. 9
893	2019/08/13	11: 25: 52	40. 8
894	2019/08/13	11: 25: 53	41. 4
895	2019/08/13	11: 25: 54	41. 9
896	2019/08/13	11: 25: 55	41. 4
897	2019/08/13	11: 25: 56	43. 3
898	2019/08/13	11: 25: 57	42. 0
899	2019/08/13	11: 25: 58	40. 7
900	2019/08/13	11: 25: 59	39. 8

Freq Weight : A
Time Weight : FAST
Level Range : 30-90
Max dB : 63.3 - 2019/08/13 11: 32: 30
Level Range : 30-90
SEL : 69.0
Leq : 44.3

No. s	Date Time	(dB)
1	2019/08/13 11: 28: 03	45.7
2	2019/08/13 11: 28: 04	42.3
3	2019/08/13 11: 28: 05	41.2
4	2019/08/13 11: 28: 06	42.6
5	2019/08/13 11: 28: 07	42.3
6	2019/08/13 11: 28: 08	44.5
7	2019/08/13 11: 28: 09	47.0
8	2019/08/13 11: 28: 10	48.7
9	2019/08/13 11: 28: 11	49.3
10	2019/08/13 11: 28: 12	54.4
11	2019/08/13 11: 28: 13	44.3
12	2019/08/13 11: 28: 14	44.8
13	2019/08/13 11: 28: 15	42.1
14	2019/08/13 11: 28: 16	41.4
15	2019/08/13 11: 28: 17	41.8
16	2019/08/13 11: 28: 18	42.2
17	2019/08/13 11: 28: 19	42.6
18	2019/08/13 11: 28: 20	42.3
19	2019/08/13 11: 28: 21	41.8
20	2019/08/13 11: 28: 22	41.5
21	2019/08/13 11: 28: 23	49.8
22	2019/08/13 11: 28: 24	42.6
23	2019/08/13 11: 28: 25	43.4
24	2019/08/13 11: 28: 26	42.7
25	2019/08/13 11: 28: 27	43.6
26	2019/08/13 11: 28: 28	41.3
27	2019/08/13 11: 28: 29	44.4
28	2019/08/13 11: 28: 30	43.1
29	2019/08/13 11: 28: 31	44.2
30	2019/08/13 11: 28: 32	43.5
31	2019/08/13 11: 28: 33	43.3
32	2019/08/13 11: 28: 34	43.0
33	2019/08/13 11: 28: 35	43.8
34	2019/08/13 11: 28: 36	41.9
35	2019/08/13 11: 28: 37	41.7
36	2019/08/13 11: 28: 38	42.8
37	2019/08/13 11: 28: 39	42.3
38	2019/08/13 11: 28: 40	45.4
39	2019/08/13 11: 28: 41	46.8
40	2019/08/13 11: 28: 42	45.9
41	2019/08/13 11: 28: 43	42.6
42	2019/08/13 11: 28: 44	44.0
43	2019/08/13 11: 28: 45	42.5
44	2019/08/13 11: 28: 46	42.6
45	2019/08/13 11: 28: 47	43.8
46	2019/08/13 11: 28: 48	43.2
47	2019/08/13 11: 28: 49	45.1
48	2019/08/13 11: 28: 50	43.6
49	2019/08/13 11: 28: 51	47.1
50	2019/08/13 11: 28: 52	43.3
51	2019/08/13 11: 28: 53	43.8
52	2019/08/13 11: 28: 54	41.7
53	2019/08/13 11: 28: 55	45.0
54	2019/08/13 11: 28: 56	45.1
55	2019/08/13 11: 28: 57	44.4
56	2019/08/13 11: 28: 58	45.0
57	2019/08/13 11: 28: 59	43.7
58	2019/08/13 11: 29: 00	43.5
59	2019/08/13 11: 29: 01	44.5
60	2019/08/13 11: 29: 02	42.9
61	2019/08/13 11: 29: 03	42.9
62	2019/08/13 11: 29: 04	43.5
63	2019/08/13 11: 29: 05	42.5
64	2019/08/13 11: 29: 06	43.0
65	2019/08/13 11: 29: 07	41.9
66	2019/08/13 11: 29: 08	42.8
67	2019/08/13 11: 29: 09	42.5
68	2019/08/13 11: 29: 10	42.8
69	2019/08/13 11: 29: 11	45.1
70	2019/08/13 11: 29: 12	45.9
71	2019/08/13 11: 29: 13	47.6
72	2019/08/13 11: 29: 14	45.8
73	2019/08/13 11: 29: 15	45.4
74	2019/08/13 11: 29: 16	45.2
75	2019/08/13 11: 29: 17	48.1
76	2019/08/13 11: 29: 18	46.1
77	2019/08/13 11: 29: 19	44.0
78	2019/08/13 11: 29: 20	44.0
79	2019/08/13 11: 29: 21	43.9
80	2019/08/13 11: 29: 22	43.8
81	2019/08/13 11: 29: 23	43.2
82	2019/08/13 11: 29: 24	43.6
83	2019/08/13 11: 29: 25	44.5
84	2019/08/13 11: 29: 26	43.6
85	2019/08/13 11: 29: 27	41.1

86	2019/08/13	11: 29: 28	40. 0
87	2019/08/13	11: 29: 29	40. 1
88	2019/08/13	11: 29: 30	41. 3
89	2019/08/13	11: 29: 31	39. 9
90	2019/08/13	11: 29: 32	41. 9
91	2019/08/13	11: 29: 33	41. 3
92	2019/08/13	11: 29: 34	41. 1
93	2019/08/13	11: 29: 35	41. 8
94	2019/08/13	11: 29: 36	41. 1
95	2019/08/13	11: 29: 37	40. 8
96	2019/08/13	11: 29: 38	41. 3
97	2019/08/13	11: 29: 39	41. 5
98	2019/08/13	11: 29: 40	41. 0
99	2019/08/13	11: 29: 41	42. 2
100	2019/08/13	11: 29: 42	41. 4
101	2019/08/13	11: 29: 43	40. 5
102	2019/08/13	11: 29: 44	40. 9
103	2019/08/13	11: 29: 45	40. 4
104	2019/08/13	11: 29: 46	40. 5
105	2019/08/13	11: 29: 47	41. 9
106	2019/08/13	11: 29: 48	40. 4
107	2019/08/13	11: 29: 49	40. 6
108	2019/08/13	11: 29: 50	40. 4
109	2019/08/13	11: 29: 51	40. 2
110	2019/08/13	11: 29: 52	39. 7
111	2019/08/13	11: 29: 53	39. 6
112	2019/08/13	11: 29: 54	39. 7
113	2019/08/13	11: 29: 55	40. 3
114	2019/08/13	11: 29: 56	40. 2
115	2019/08/13	11: 29: 57	40. 6
116	2019/08/13	11: 29: 58	40. 2
117	2019/08/13	11: 29: 59	40. 4
118	2019/08/13	11: 30: 00	40. 3
119	2019/08/13	11: 30: 01	40. 4
120	2019/08/13	11: 30: 02	40. 4
121	2019/08/13	11: 30: 03	39. 9
122	2019/08/13	11: 30: 04	39. 7
123	2019/08/13	11: 30: 05	40. 1
124	2019/08/13	11: 30: 06	40. 5
125	2019/08/13	11: 30: 07	40. 5
126	2019/08/13	11: 30: 08	40. 9
127	2019/08/13	11: 30: 09	40. 3
128	2019/08/13	11: 30: 10	40. 4
129	2019/08/13	11: 30: 11	43. 0
130	2019/08/13	11: 30: 12	39. 9
131	2019/08/13	11: 30: 13	39. 6
132	2019/08/13	11: 30: 14	39. 7
133	2019/08/13	11: 30: 15	40. 1
134	2019/08/13	11: 30: 16	40. 5
135	2019/08/13	11: 30: 17	41. 7
136	2019/08/13	11: 30: 18	41. 2
137	2019/08/13	11: 30: 19	39. 8
138	2019/08/13	11: 30: 20	41. 3
139	2019/08/13	11: 30: 21	40. 0
140	2019/08/13	11: 30: 22	40. 2
141	2019/08/13	11: 30: 23	40. 3
142	2019/08/13	11: 30: 24	40. 6
143	2019/08/13	11: 30: 25	39. 9
144	2019/08/13	11: 30: 26	43. 4
145	2019/08/13	11: 30: 27	41. 6
146	2019/08/13	11: 30: 28	41. 4
147	2019/08/13	11: 30: 29	40. 8
148	2019/08/13	11: 30: 30	44. 0
149	2019/08/13	11: 30: 31	44. 9
150	2019/08/13	11: 30: 32	43. 2
151	2019/08/13	11: 30: 33	41. 5
152	2019/08/13	11: 30: 34	40. 7
153	2019/08/13	11: 30: 35	40. 9
154	2019/08/13	11: 30: 36	40. 4
155	2019/08/13	11: 30: 37	40. 9
156	2019/08/13	11: 30: 38	41. 3
157	2019/08/13	11: 30: 39	41. 2
158	2019/08/13	11: 30: 40	42. 1
159	2019/08/13	11: 30: 41	41. 2
160	2019/08/13	11: 30: 42	42. 3
161	2019/08/13	11: 30: 43	43. 7
162	2019/08/13	11: 30: 44	44. 5
163	2019/08/13	11: 30: 45	43. 3
164	2019/08/13	11: 30: 46	43. 7
165	2019/08/13	11: 30: 47	42. 6
166	2019/08/13	11: 30: 48	42. 2
167	2019/08/13	11: 30: 49	43. 1
168	2019/08/13	11: 30: 50	42. 5
169	2019/08/13	11: 30: 51	43. 6
170	2019/08/13	11: 30: 52	45. 8
171	2019/08/13	11: 30: 53	46. 4
172	2019/08/13	11: 30: 54	44. 1
173	2019/08/13	11: 30: 55	42. 4
174	2019/08/13	11: 30: 56	44. 4
175	2019/08/13	11: 30: 57	44. 6
176	2019/08/13	11: 30: 58	42. 3
177	2019/08/13	11: 30: 59	41. 6
178	2019/08/13	11: 31: 00	40. 3
179	2019/08/13	11: 31: 01	43. 7
180	2019/08/13	11: 31: 02	43. 2
181	2019/08/13	11: 31: 03	44. 3
182	2019/08/13	11: 31: 04	43. 8
183	2019/08/13	11: 31: 05	44. 2
184	2019/08/13	11: 31: 06	43. 4

185	2019/08/13	11:31:07	45.4
186	2019/08/13	11:31:08	45.3
187	2019/08/13	11:31:09	45.1
188	2019/08/13	11:31:10	44.4
189	2019/08/13	11:31:11	46.8
190	2019/08/13	11:31:12	49.5
191	2019/08/13	11:31:13	46.4
192	2019/08/13	11:31:14	43.8
193	2019/08/13	11:31:15	46.5
194	2019/08/13	11:31:16	44.8
195	2019/08/13	11:31:17	47.4
196	2019/08/13	11:31:18	47.9
197	2019/08/13	11:31:19	49.2
198	2019/08/13	11:31:20	49.1
199	2019/08/13	11:31:21	48.7
200	2019/08/13	11:31:22	46.9
201	2019/08/13	11:31:23	46.0
202	2019/08/13	11:31:24	45.6
203	2019/08/13	11:31:25	44.3
204	2019/08/13	11:31:26	44.9
205	2019/08/13	11:31:27	45.3
206	2019/08/13	11:31:28	43.9
207	2019/08/13	11:31:29	44.5
208	2019/08/13	11:31:30	45.2
209	2019/08/13	11:31:31	43.2
210	2019/08/13	11:31:32	43.0
211	2019/08/13	11:31:33	42.2
212	2019/08/13	11:31:34	42.8
213	2019/08/13	11:31:35	41.5
214	2019/08/13	11:31:36	42.3
215	2019/08/13	11:31:37	41.1
216	2019/08/13	11:31:38	42.2
217	2019/08/13	11:31:39	42.6
218	2019/08/13	11:31:40	41.7
219	2019/08/13	11:31:41	40.8
220	2019/08/13	11:31:42	42.1
221	2019/08/13	11:31:43	43.2
222	2019/08/13	11:31:44	42.5
223	2019/08/13	11:31:45	41.0
224	2019/08/13	11:31:46	43.0
225	2019/08/13	11:31:47	42.4
226	2019/08/13	11:31:48	40.7
227	2019/08/13	11:31:49	40.1
228	2019/08/13	11:31:50	58.6
229	2019/08/13	11:31:51	41.6
230	2019/08/13	11:31:52	42.7
231	2019/08/13	11:31:53	41.9
232	2019/08/13	11:31:54	40.2
233	2019/08/13	11:31:55	40.0
234	2019/08/13	11:31:56	42.0
235	2019/08/13	11:31:57	40.0
236	2019/08/13	11:31:58	40.6
237	2019/08/13	11:31:59	40.1
238	2019/08/13	11:32:00	43.0
239	2019/08/13	11:32:01	39.6
240	2019/08/13	11:32:02	41.5
241	2019/08/13	11:32:03	41.2
242	2019/08/13	11:32:04	40.0
243	2019/08/13	11:32:05	40.9
244	2019/08/13	11:32:06	41.1
245	2019/08/13	11:32:07	40.3
246	2019/08/13	11:32:08	39.9
247	2019/08/13	11:32:09	40.5
248	2019/08/13	11:32:10	48.0
249	2019/08/13	11:32:11	39.7
250	2019/08/13	11:32:12	41.3
251	2019/08/13	11:32:13	47.1
252	2019/08/13	11:32:14	49.8
253	2019/08/13	11:32:15	47.9
254	2019/08/13	11:32:16	42.4
255	2019/08/13	11:32:17	46.8
256	2019/08/13	11:32:18	40.2
257	2019/08/13	11:32:19	42.5
258	2019/08/13	11:32:20	44.4
259	2019/08/13	11:32:21	52.0
260	2019/08/13	11:32:22	49.8
261	2019/08/13	11:32:23	40.1
262	2019/08/13	11:32:24	39.8
263	2019/08/13	11:32:25	40.1
264	2019/08/13	11:32:26	39.8
265	2019/08/13	11:32:27	39.8
266	2019/08/13	11:32:28	43.4
267	2019/08/13	11:32:29	56.3
268	2019/08/13	11:32:30	50.4
269	2019/08/13	11:32:31	53.2
270	2019/08/13	11:32:32	47.4
271	2019/08/13	11:32:33	47.5
272	2019/08/13	11:32:34	41.1
273	2019/08/13	11:32:35	40.7
274	2019/08/13	11:32:36	41.0
275	2019/08/13	11:32:37	40.3
276	2019/08/13	11:32:38	42.4
277	2019/08/13	11:32:39	41.5
278	2019/08/13	11:32:40	39.2
279	2019/08/13	11:32:41	39.0
280	2019/08/13	11:32:42	40.1
281	2019/08/13	11:32:43	38.7
282	2019/08/13	11:32:44	42.3
283	2019/08/13	11:32:45	38.9

284	2019/08/13	11: 32: 46	39. 1
285	2019/08/13	11: 32: 47	39. 4
286	2019/08/13	11: 32: 48	53. 0
287	2019/08/13	11: 32: 49	39. 8
288	2019/08/13	11: 32: 50	40. 0
289	2019/08/13	11: 32: 51	40. 7
290	2019/08/13	11: 32: 52	42. 1
291	2019/08/13	11: 32: 53	41. 4
292	2019/08/13	11: 32: 54	40. 4
293	2019/08/13	11: 32: 55	40. 8
294	2019/08/13	11: 32: 56	40. 1
295	2019/08/13	11: 32: 57	40. 4
296	2019/08/13	11: 32: 58	39. 3
297	2019/08/13	11: 32: 59	41. 3
298	2019/08/13	11: 33: 00	40. 0
299	2019/08/13	11: 33: 01	40. 6
300	2019/08/13	11: 33: 02	40. 2

Appendix G

Roadway Construction Noise Model (RCNM) Results

Roadway Construction Noise Model (RCNM),Version 1.1

Report dat #####

Case Descr Nike Site Demolition Project

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Memorial	Commercial	65	55	45

Equipment

	Impact	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Description	Device					
Concrete Saw	No	20		89.6	230	0
Backhoe	No	40		77.6	230	0
Dozer	No	40		81.7	230	0
Tractor	No	40	84		230	0

Results

Calculated (dBA)		Noise Limits (dBA)						
		Day		Evening		Night		
Equipment	*Lmax	L10	Lmax	L10	Lmax	L10	Lmax	L10
Concrete Saw	76.3	72.3	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	64.3	63.3	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	68.4	67.4	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	70.7	69.8	N/A	N/A	N/A	N/A	N/A	N/A
Total	76.3	75.4	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Juvenile Ju	Residential	65	55	45

Equipment

	Impact	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Description	Device					
Concrete Saw	No	20		89.6	2000	0
Backhoe	No	40		77.6	2000	0
Dozer	No	40		81.7	2000	0
Tractor	No	40	84		2000	0

Results

Calculated (dBA)	Noise Limits (dBA)		
	Day	Evening	Night

Equipment	*Lmax	L10	Lmax	L10	Lmax	L10	Lmax	L10
Concrete Saw	57.5	53.5	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	45.5	44.5	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	49.6	48.6	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	52	51	N/A	N/A	N/A	N/A	N/A	N/A
Total	57.5	56.6	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Bay-O-Vist Residential		65	55	45

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Concrete Saw	No	20		89.6	1400	0
Backhoe	No	40		77.6	1400	0
Dozer	No	40		81.7	1400	0
Tractor	No	40	84		1400	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)					
	*Lmax	L10	Day Lmax	L10	Evening Lmax	L10	Night Lmax	L10
Concrete Saw	60.6	56.6	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	48.6	47.6	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	52.7	51.7	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	55.1	54.1	N/A	N/A	N/A	N/A	N/A	N/A
Total	60.6	59.7	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Noise Limit Exceedance (dBA)					
Day	Evening			Night	
Lmax	L10	Lmax	L10	Lmax	L10
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

Noise Limit Exceedance (dBA)		
Day	Evening	Night

Lmax	L10	Lmax	L10	Lmax	L10
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

Noise Limit Exceedance (dBA)					
Day	Evening		Night		
Lmax	L10	Lmax	L10	Lmax	L10
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM),Version 1.1

Report dat #####

Case Descr Nike Site Demolition Project

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Memorial	Commercial	65	55	45

Equipment

	Impact	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Description	Device					
Concrete Saw	No	20		89.6	230	0
Backhoe	No	40		77.6	230	0
Dozer	No	40		81.7	230	0
Tractor	No	40	84		230	0

Results

Calculated (dBA)		Noise Limits (dBA)						
		Day		Evening		Night		
Equipment	*Lmax	L10	Lmax	L10	Lmax	L10	Lmax	L10
Concrete Saw	76.3	72.3	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	64.3	63.3	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	68.4	67.4	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	70.7	69.8	N/A	N/A	N/A	N/A	N/A	N/A
Total	76.3	75.4	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Juvenile Ju	Residential	65	55	45

Equipment

	Impact	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Description	Device					
Concrete Saw	No	20		89.6	2000	0
Backhoe	No	40		77.6	2000	0
Dozer	No	40		81.7	2000	0
Tractor	No	40	84		2000	0

Results

Calculated (dBA)		Noise Limits (dBA)		
		Day	Evening	Night

Equipment	*Lmax	L10	Lmax	L10	Lmax	L10	Lmax	L10
Concrete Saw	57.5	53.5	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	45.5	44.5	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	49.6	48.6	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	52	51	N/A	N/A	N/A	N/A	N/A	N/A
Total	57.5	56.6	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Bay-O-Vist Residential		65	55	45

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Concrete Saw	No	20		89.6	1400	0
Backhoe	No	40		77.6	1400	0
Dozer	No	40		81.7	1400	0
Tractor	No	40	84		1400	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)					
	*Lmax	L10	Day Lmax	L10	Evening Lmax	L10	Night Lmax	L10
Concrete Saw	60.6	56.6	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	48.6	47.6	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	52.7	51.7	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	55.1	54.1	N/A	N/A	N/A	N/A	N/A	N/A
Total	60.6	59.7	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Noise Limit Exceedance (dBA)					
Day	Evening			Night	
Lmax	L10	Lmax	L10	Lmax	L10
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

Noise Limit Exceedance (dBA)		
Day	Evening	Night

Lmax	L10	Lmax	L10	Lmax	L10
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

Noise Limit Exceedance (dBA)					
Day	Evening		Night		
Lmax	L10	Lmax	L10	Lmax	L10
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

Appendix H

Assembly Bill 52 Consultation Correspondence



September 23, 2019

Amah Mutsun Tribal Band
Valentin Lopez, Chairperson
P.O. Box 5272
Galt, CA, 95632
Phone: (916) 743 - 5833
vlopez@amahmutsun.org

RE: Assembly Bill 52 Consultation for the Nike Site Demolition Project, City of San Leandro, Alameda County, California

Dear Chairperson Lopez:

The County of Alameda General Services Agency (County) is preparing an Initial Study-Mitigated Negative Declaration (IS-MND) for the Nike Site Demolition Project. The proposed project consists of the demolition of two structures that were previously associated with the Nike Missile Site in San Leandro. The project would involve stabilization of loose and peeling lead containing paint; removal and proper disposal of components coated with lead containing paint; demolition of the Quarters Building (Building D); and demolition the Radar Storage shed portion of Building B. There are no current redevelopment plans for the site. The proposed project is subject to the California Environmental Quality Act (CEQA), and the County is the lead agency for the project.

The proposed Project must comply with California Public Resources Code § 21080.3.1 (Assembly Bill [AB] 52 of 2014), which requires local governments to conduct meaningful consultation with California Native American tribes that have requested to be notified by lead agencies of proposed projects in the geographic area with which the tribe is traditionally and culturally affiliated.

The input of the Amah Mutsun Tribal Band is important to the County's planning process. Under AB 52, you have 30 days from receipt of this letter to respond in writing if you wish to consult on the proposed project. If you require any additional information or have any questions, please contact me at (510) 208-9520 or via e-mail at jason.garrison@acgov.org. Thank you for your assistance.

Sincerely,

DocuSigned by:

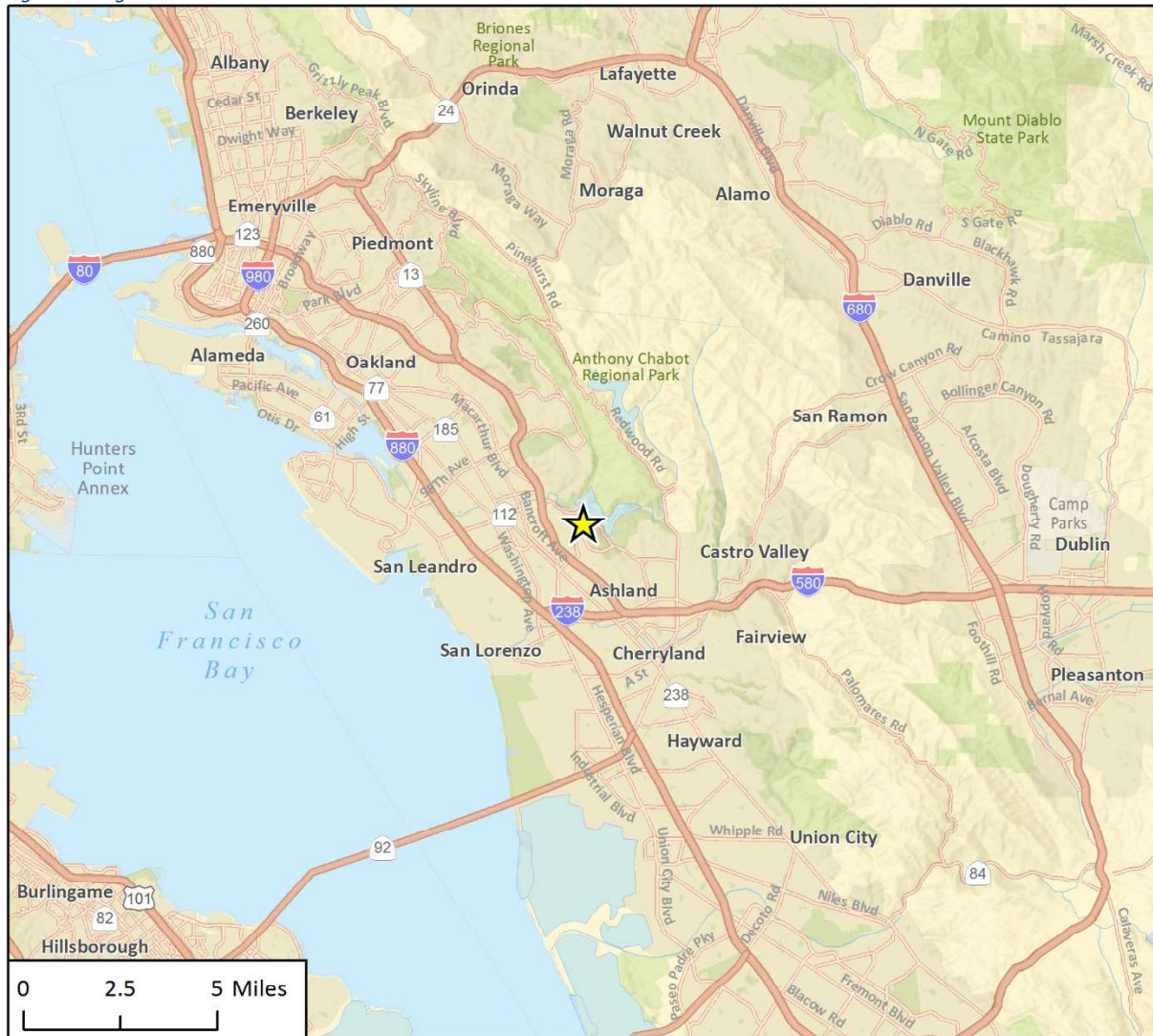
Jason B. Garrison

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Jason B. Garrison

County of Alameda General Services Agency
Environmental Department – Capital Programs

Enclosure: Project Location Maps

Figure 1. Regional Location



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★ Project Location



Fig 1 Regional Location

Figure 2. Project Location



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Fig 2. Project Site Neighborhood



September 23, 2019

Amah Mutsun Tribal Band of Mission San Juan Batista
Irenne Zwierlein, Chairperson
789 Canada Road
Woodside, CA, 94062
Phone: (650) 851 – 7489
amahmutsuntribal@gmail.com

RE: Assembly Bill 52 Consultation for the Nike Site Demolition Project, City of San Leandro, Alameda County, California

Dear Chairperson Zwierlein:

The County of Alameda General Services Agency (County) is preparing an Initial Study-Mitigated Negative Declaration (IS-MND) for the Nike Site Demolition Project. The proposed project consists of the demolition of two structures that were previously associated with the Nike Missile Site in San Leandro. The project would involve stabilization of loose and peeling lead containing paint; removal and proper disposal of components coated with lead containing paint; demolition of the Quarters Building (Building D); and demolition the Radar Storage shed portion of Building B. There are no current redevelopment plans for the site. The proposed project is subject to the California Environmental Quality Act (CEQA), and the County is the lead agency for the project.

The proposed Project must comply with California Public Resources Code § 21080.3.1 (Assembly Bill [AB] 52 of 2014), which requires local governments to conduct meaningful consultation with California Native American tribes that have requested to be notified by lead agencies of proposed projects in the geographic area with which the tribe is traditionally and culturally affiliated.

The input of the Amah Mutsun Tribal Band of Mission San Juan Batista is important to the County's planning process. Under AB 52, you have 30 days from receipt of this letter to respond in writing if you wish to consult on the proposed project. If you require any additional information or have any questions, please contact me at (510) 208-9520 or via e-mail at jason.garrison@acgov.org. Thank you for your assistance.

Sincerely,
DocuSigned by:

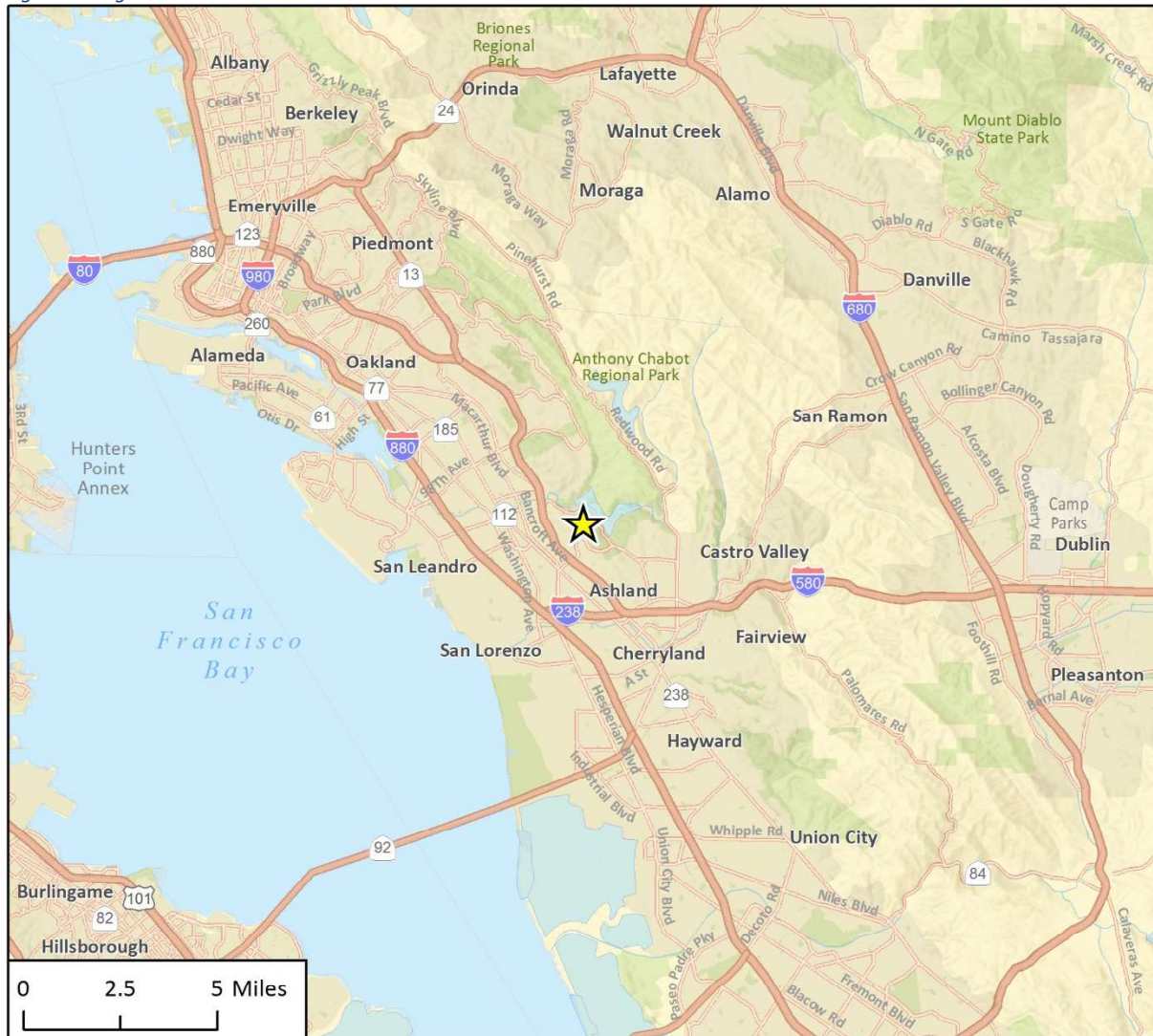
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Jason B. Garrison

County of Alameda General Services Agency
Environmental Department – Capital Programs

Enclosure: Project Location Maps

Figure 1. Regional Location



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Fig 1 Regional Location

Figure 2. Project Location



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Fig 2. Project Site Neighborhood



September 23, 2019

Indian Canyon Mutsun Band of Costanoan
Ann Marie Sayers, Chairperson
P.O. Box 28
Hollister, CA, 95024
Phone: (831) 637 – 4238
ams@indiancanyon.org

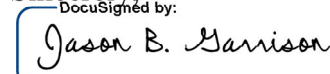
RE: Assembly Bill 52 Consultation for the Nike Site Demolition Project, City of San Leandro, Alameda County, California

Dear Chairperson Sayers:

The County of Alameda General Services Agency (County) is preparing an Initial Study-Mitigated Negative Declaration (IS-MND) for the Nike Site Demolition Project. The proposed project consists of the demolition of two structures that were previously associated with the Nike Missile Site in San Leandro. The project would involve stabilization of loose and peeling lead containing paint; removal and proper disposal of components coated with lead containing paint; demolition of the Quarters Building (Building D); and demolition the Radar Storage shed portion of Building B. There are no current redevelopment plans for the site. The proposed project is subject to the California Environmental Quality Act (CEQA), and the County is the lead agency for the project.

The proposed Project must comply with California Public Resources Code § 21080.3.1 (Assembly Bill [AB] 52 of 2014), which requires local governments to conduct meaningful consultation with California Native American tribes that have requested to be notified by lead agencies of proposed projects in the geographic area with which the tribe is traditionally and culturally affiliated.

The input of the Indian Canyon Mutsun Band of Costanoan is important to the County's planning process. Under AB 52, you have 30 days from receipt of this letter to respond in writing if you wish to consult on the proposed project. If you require any additional information or have any questions, please contact me at (510) 208-9520 or via e-mail at jason.garrison@acgov.org. Thank you for your assistance.

Sincerely,
DocuSigned by:

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Jason B. Garrison
County of Alameda General Services Agency
Environmental Department – Capital Programs

Enclosure: Project Location Maps

This map shows the San Francisco Bay Area, including cities like Albany, Berkeley, Emeryville, Alameda, Oakland, San Leandro, San Lorenzo, Hayward, Union City, and Fremont. Major highways such as I-80, I-980, I-880, I-580, and I-84 are labeled. The map also shows various parks, including Briones Regional Park, Anthony Chabot Regional Park, and Mount Diablo State Park. A yellow star is located in the center of the map, near the city of Oakland, indicating the location of the San Francisco Bay Area. A scale bar at the bottom left shows distances of 0, 2.5, and 5 miles.

 Project Location



Figure 2. Project Location



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Fig 2. Project Site Neighborhood



September 23, 2019

Muwekma Ohlone Indian Tribe of the SF Bay Area
Monica Arellano,
20885 Redwood Road, Suite 232
Castro Valley, CA, 94546
Phone: (408) 205 - 9714
marellano@muwekma.org

RE: Assembly Bill 52 Consultation for the Nike Site Demolition Project, City of San Leandro, Alameda County, California

Dear Ms. Arellano:

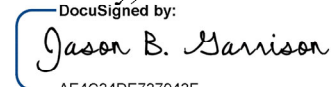
The County of Alameda General Services Agency (County) is preparing an Initial Study-Mitigated Negative Declaration (IS-MND) for the Nike Site Demolition Project. The proposed project consists of the demolition of two structures that were previously associated with the Nike Missile Site in San Leandro. The project would involve stabilization of loose and peeling lead containing paint; removal and proper disposal of components coated with lead containing paint; demolition of the Quarters Building (Building D); and demolition the Radar Storage shed portion of Building B. There are no current redevelopment plans for the site. The proposed project is subject to the California Environmental Quality Act (CEQA), and the County is the lead agency for the project.

The proposed Project must comply with California Public Resources Code § 21080.3.1 (Assembly Bill [AB] 52 of 2014), which requires local governments to conduct meaningful consultation with California Native American tribes that have requested to be notified by lead agencies of proposed projects in the geographic area with which the tribe is traditionally and culturally affiliated.

The input of the Muwekma Ohlone Indian Tribe of the SF Bay Area is important to the County's planning process. Under AB 52, you have 30 days from receipt of this letter to respond in writing if you wish to consult on the proposed project. If you require any additional information or have any questions, please contact me at (510) 208-9520 or via e-mail at jason.garrison@acgov.org. Thank you for your assistance.

Sincerely,

DocuSigned by:

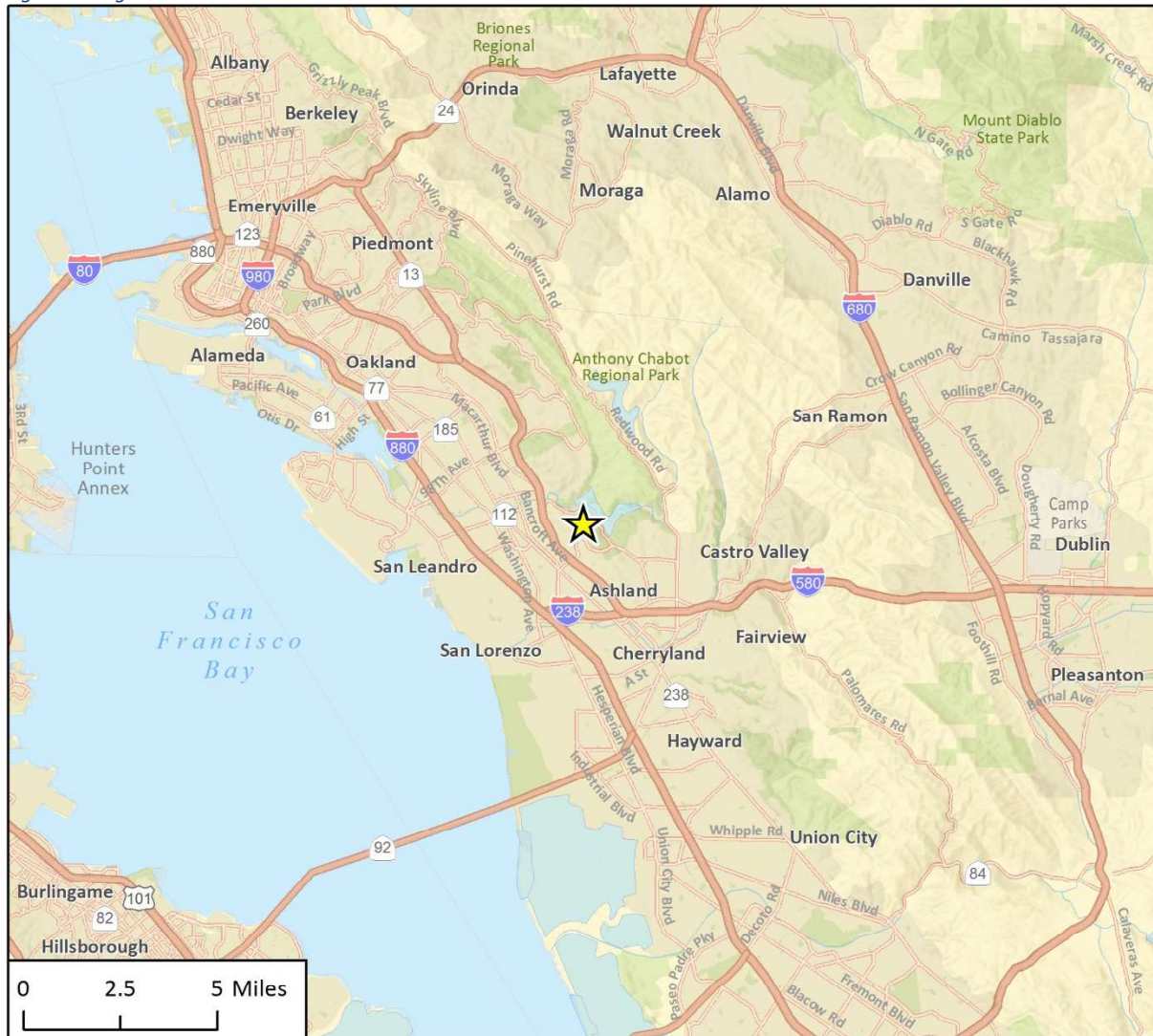


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Jason B. Garrison

County of Alameda General Services Agency
Environmental Department – Capital Programs

Enclosure: Project Location Maps

Figure 1. Regional Location



★ Project Location



Fig 1 Regional Location

Figure 2. Project Location



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Fig 2. Project Site Neighborhood



September 23, 2019

North Valley Yokuts Tribe
Katherine Erolinda Perez, Chairperson
P.O. Box 717
Linden, CA, 95236
Phone: (209) 887 - 3415
canutes@verizon.net

RE: Assembly Bill 52 Consultation for the Nike Site Demolition Project, City of San Leandro, Alameda County, California

Dear Chairperson Perez:

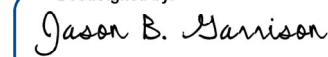
The County of Alameda General Services Agency (County) is preparing an Initial Study-Mitigated Negative Declaration (IS-MND) for the Nike Site Demolition Project. The proposed project consists of the demolition of two structures that were previously associated with the Nike Missile Site in San Leandro. The project would involve stabilization of loose and peeling lead containing paint; removal and proper disposal of components coated with lead containing paint; demolition of the Quarters Building (Building D); and demolition the Radar Storage shed portion of Building B. There are no current redevelopment plans for the site. The proposed project is subject to the California Environmental Quality Act (CEQA), and the County is the lead agency for the project.

The proposed Project must comply with California Public Resources Code § 21080.3.1 (Assembly Bill [AB] 52 of 2014), which requires local governments to conduct meaningful consultation with California Native American tribes that have requested to be notified by lead agencies of proposed projects in the geographic area with which the tribe is traditionally and culturally affiliated.

The input of the North Valley Yokuts Tribe is important to the County's planning process. Under AB 52, you have 30 days from receipt of this letter to respond in writing if you wish to consult on the proposed project. If you require any additional information or have any questions, please contact me at (510) 208-9520 or via e-mail at jason.garrison@acgov.org. Thank you for your assistance.

Sincerely,

DocuSigned by:



Jason B. Garrison

County of Alameda General Services Agency
Environmental Department – Capital Programs

Enclosure: Project Location Maps

This map shows the San Francisco Bay Area, including cities like Albany, Berkeley, Emeryville, Alameda, Oakland, San Leandro, San Lorenzo, Hayward, Union City, and Fremont. Major highways such as I-80, I-980, I-880, I-580, and I-84 are labeled. The map also shows various parks, including Briones Regional Park, Anthony Chabot Regional Park, and Mount Diablo State Park. A yellow star is located in the center of the map, near the city of Oakland, indicating the location of the San Francisco Bay Area. A scale bar at the bottom left shows distances of 0, 2.5, and 5 miles.

 Project Location



Figure 2. Project Location



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Fig 2. Project Site Neighborhood



September 23, 2019

The Ohlone Indian Tribe
Andrew Galvan
P.O. Box 3388
Fremont, CA, 94539
Phone: (510) 882 - 0527
chochenyo@AOL.com

RE: Assembly Bill 52 Consultation for the Nike Site Demolition Project, City of San Leandro, Alameda County, California

Dear Mr. Galvan:

The County of Alameda General Services Agency (County) is preparing an Initial Study-Mitigated Negative Declaration (IS-MND) for the Nike Site Demolition Project. The proposed project consists of the demolition of two structures that were previously associated with the Nike Missile Site in San Leandro. The project would involve stabilization of loose and peeling lead containing paint; removal and proper disposal of components coated with lead containing paint; demolition of the Quarters Building (Building D); and demolition the Radar Storage shed portion of Building B. There are no current redevelopment plans for the site. The proposed project is subject to the California Environmental Quality Act (CEQA), and the County is the lead agency for the project.

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The input of the Ohlone Indian Tribe is important to the County's planning process. Under AB 52, you have 30 days from receipt of this letter to respond in writing if you wish to consult on the proposed project. If you require any additional information or have any questions, please contact me at (510) 208-9520 or via e-mail at jason.garrison@acgov.org. Thank you for your assistance.

Sincerely,

DocuSigned by:

Jason B. Garrison

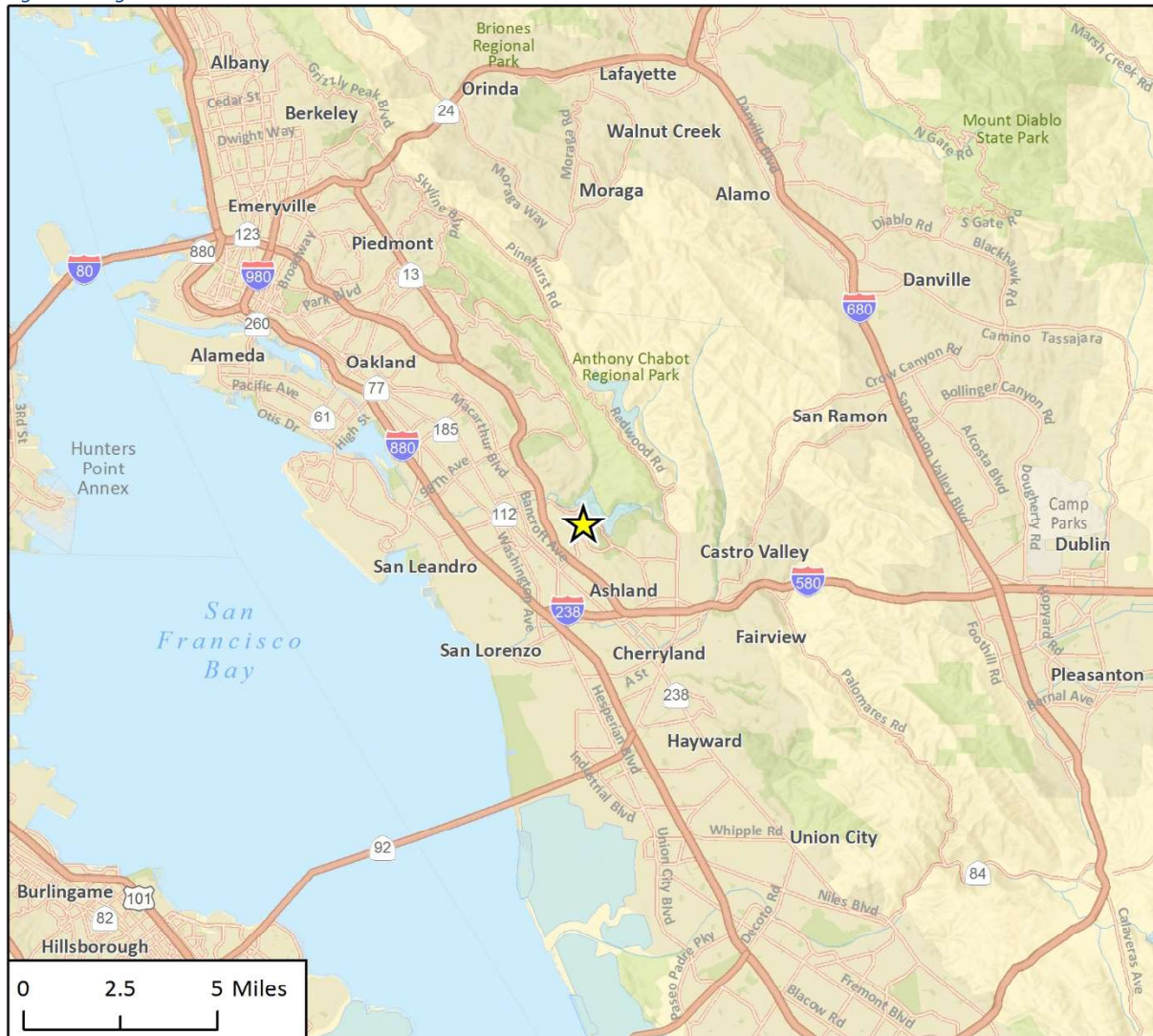
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Jason B. Garrison

County of Alameda General Services Agency
Environmental Department – Capital Programs

Enclosure: Project Location Map

Figure 1. Regional Location



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★ Project Location



Fig 1 Regional Location

Figure 2. Project Location



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Fig 2. Project Site Neighborhood