2.2 Laboratory Report/Chain of Custody

2.2.1 Asbestos

MATERIALS TESTING & INSPECTION

PAGE 1 OF 2
DATE AUGUST 9, 2016
160256

❑ Environmental Services ❑ Geotechnical Engineering ❑ Construction Materials Testing ❑ Special Inspections

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BOISE, ID

MTI FILE #: B160007E

Project: Clark Fork Fish Hatchery
P.O. Number:

Date Received: 8/2/2016
Date Reported: 8/9/2016

ASBESTOS BULK SAMPLE ANALYSIS REPORT

Sample Number	Lab Number	Sample Type, Location, and Description	Asbestos Fibers	Non-Asbestos Fibers	Non-Fibrous Materials	Comments
CFH-A-01	B134992	Concrete foundation walls, fish pens #1 W of summer quarters-grey cementitious granular	NAD		100% Other	
CFH-A-02	B134993	Concrete foundation walls, fish pens #2 W of summer quarters-grey cementitious granular	NAD		100% Other	
CFH-A-03	B134994	Concrete foundation walls, fish pens #3 & 4 W of hatchery bldg-grey cementitious granular	NAD		100% Other	
SQ-A-01	B134995	Gray batt insulation, attic-brown loose fibrous	NAD	100% Glass		
SQ-A-02	B134996	Gray batt insulation, attic NEC-brown loose fibrous	NAD	100% Glass		
SQ-A-03	B134997	Gray batt insulation attic SE end-brown loose fibrous	NAD	100% Glass		
SQ-A-04	B134998	12"x20" ceiling tiles-semi compact fibrous	NAD	90% Cellulose	10% Other	
SQ-A-05	B134999	12"x20" ceiling tiles, SWC-semi compact fibrous	NAD	90% Cellulose	10% Other	
SQ-A-06	B135000	12"x20" ceiling tiles, light box center of space-semi compact fibrous	NAD	90% Cellulose	10% Other	
SQ-A-07	B135001	Beige/blue sheet vinyl with brown mastic, over wood subfloor-compact layered resilient fibrous	NAD	30% Synthetic	2% Mastic 68% Other	
SQ-A-08	B135002	Beige/blue sheet vinyl with brown mastic, over wood subfloor-compact layered resilient fibrous	NAD	30% Synthetic	2% Mastic 68% Other	
SQ-A-09	B135003	Beige/blue sheet vinyl with brown mastic, over wood subfloor by front door-compact layered resilient fibrous	NAD	30% Synthetic	2% Mastic 68% Other	
SQ-A-10	B135004	Concrete foundation, exterior-beige cementitious granular	NAD		100% Other	
EG-A-01	B135005	Window glazing, frontend (south end)-white hard compact	NAD		100% Other	
EG-A-02	B135006	Window glazing, eastside (south end)-white hard compact	NAD		100% Other	
EG-A-03	B135007	Window glazing, north end (south end)-white hard compact	NAD		100% Other	
EG-A-04	B135008	Brick/mortar chimney-red/white cementitious granular	NAD		100% Other	

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Sample Number	Lab Number	Sample Type, Location, and Description	Asbestos Fibers	Non-Asbestos Fibers	Non-Fibrous Materials	Comments
EG-A-05	B135009	Brick/mortar chimney inside front section-red/white cementitious granular	NAD		100% Other	
EG-A-06	B135010	Brick/mortar chimney roof top-red/white cementitious granular	NAD		100% Other	
EG-A-07	B135011	Concrete foundation, NEC-grey cementitious granular	NAD		100% Other	
WG-A-01	B135012	Window glazing, east end-white hard compact	NAD		100% Other	
WG-A-02	B135013	Window glazing, rear-white hard compact	NAD		100% Other	
WG-A-03	B135014	Window glazing, west end-white hard compact	NAD		100% Other	
WG-A-04	B135015	Concrete foundation, NWC-grey cementitious granular	NAD		100% Other	
OG-A-01	B135016	Window glazing, east side-beige/white hard compact	NAD		100% Other	
OG-A-02	B135017	Window glazing, west side-beige/white hard compact	NAD		100% Other	
OG-A-03	B135018	Window glazing, rear door-beige/white hard compact	NAD		100% Other	
OG-A-04	B135019	Interior drywall, no joint compound-white semi compact powdery with fibers	NAD	15% Cellulose	85% Other	
OG-A-05	B135020	Interior drywall, no joint compound, rear wall-white semi compact powdery with fibers	NAD	15% Cellulose	85% Other	
OG-A-06	B135021	Interior drywall, no joint compound, ceiling-white semi compact powdery with fibers	NAD	15% Cellulose	85% Other	
OG-A-07	B135022	Concrete foundation wall-beige cementitious granular	NAD		100% Other	
OF-A-01	B135023	Window glazing, exterior front-white hard compact	NAD		100% Other	
OF-A-02	B135024	Window glazing, exterior rear-white hard compact	NAD		100% Other	
OF-A-03	B135025	Window glazing, exterior west end-white hard compact	NAD		100% Other	
OF-A-04	B135026	CMU (block/mortar) exterior roof top-grey cementitious granular	NAD		100% Other	
OF-A-05	B135027	CMU (block/mortar) exterior back porch-grey cementitious granular	NAD		100% Other	
OF-A-06	B135028	CMU (block/mortar) exterior attic-grey cementitious granular	NAD		100% Other	
OF-A-07	B135029	Blown-in insulation, attic/exterior walls-tan loose fibrous	NAD	85% Cellulose 15% Synthetic		
OF-A-08	B135030	Blown-in insulation, attic/exterior walls-tan loose fibrous	NAD	85% Cellulose 15% Synthetic		
OF-A-09	B135031	Blown-in insulation, attic/exterior walls-tan loose fibrous	NAD	85% Cellulose 15% Synthetic		

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Sample Number	Lab Number	Sample Type, Location, and Description	Asbestos Fibers	Non-Asbestos Fibers	Non-Fibrous Materials	Comments
OF-A-10	B135032	Batt insulation, attic addition-pink loose fibrous	NAD	100% Glass		
OF-A-11	B135033	Batt insulation, attic addition-pink loose fibrous	NAD	100% Glass		
OF-A-12	B135034	Batt insulation, attic addition-pink loose fibrous	NAD	100% Glass		
OF-A-13	B135035	**Spray-on (hallway) ceiling texture**-white semi compact powdery with fibers	**10% Chrysotile**		90% Other	
OF-A-14	B135036	**Spray-on ceiling texture**, front bedroom-white semi compact powdery with fibers	**10% Chrysotile**		90% Other	
OF-A-15	B135037	**Spray-on ceiling texture,** rear bedroom-white semi compact powdery with fibers	**10% Chrysotile**		90% Other	
OF-A-16	B135038	12"x12" ceiling tile, bedroom-tan semi compact fibrous	NAD	90% Cellulose	10% Other	
OF-A-17	B135039	12"x12" ceiling tile, north bedroom-tan semi compact fibrous	NAD	90% Cellulose	10% Other	
OF-A-18	B135040	12"x12" ceiling tile, SWC-tan semi compact fibrous	NAD	90% Cellulose	10% Other	
OF-A-19	B135041	**Plaster wall/ceiling finish**-white semi compact powdery to cementitious granular	**3% Chrysotile in skim coat layer**		98% Other	
OF-A-20	B135042	**Plaster wall/ceiling finish,** kitchen interior walls-white semi compact powdery to cementitious granular	**3% Chrysotile in skim coat layer**		98% Other	
OF-A-21	B135043	**Plaster wall/ceiling finish,** bathroom ceiling-white semi compact powdery to cementitious granular	**3% Chrysotile in skim coat layer**		98% Other	
OF-A-22	B135044	Ceramic tile grout-white compact	NAD		100% Other	
OF-A-23	B135045	Ceramic tile grout, kitchen-white compact	NAD		100% Other	
OF-A-24	B135046	Ceramic tile grout, bathroom-white compact	NAD		100% Other	
OF-A-25	B135047	**Grey 9" floor tile with black mastic**-hard compact granular with fibers	**5% Chrysotile in tile and mastic**		5% Mastic 90% Other	
OF-A-26	B135048	**Grey 9" floor tile with black mastic,** over tar paper, rear porch at damage-hard compact granular with fibers	**5% Chrysotile in tile and mastic**		5% Mastic 90% Other	
OF-A-27	B135049	**Grey 9" floor tile with black mastic,** over tar paper, by furnace-hard compact granular with fibers	**5% Chrysotile in tile and mastic**		5% Mastic 90% Other	
OF-A-28	B135050	**Green 9" floor tile with black mastic**-hard compact granular with fibers	**5% Chrysotile in tile >1% Chrysotile in black mastic**		5% Mastic 90% Other	
OF-A-29	B135051	**Green 9" floor tile with black mastic,** kitchen-hard compact granular with fibers	**5% Chrysotile in tile >1% Chrysotile in black mastic**		5% Mastic 90% Other	

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OF-A-30	B135052	**Green 9" floor tile with black mastic**-hard compact granular with fibers	**5% Chrysotile in tile =1% Chrysotile in black mastic**		5% Mastic 90% Other	
OF-A-31	B135053	**Tar paper beneath 9" tile**-black bituminous fibrous	**5% Chrysotile in tile**	70% Cellulose	30% Other	**Tar paper and green tile are inseparable**
OF-A-32	B135054	**Tar paper beneath 9" tile**, kitchen-black bituminous fibrous	**5% Chrysotile in tile**	70% Cellulose	30% Other	**Tar paper and green tile are inseparable**
OF-A-33	B135055	**Tar paper beneath 9" tile**, porch-black bituminous fibrous	**5% Chrysotile in tile**	70% Cellulose	30% Other	**Tar paper and green tile are inseparable**
OF-A-34	B135056	Brown sheet vinyl with yellow mastic-compact layered resilient fibrous	NAD	30% Synthetic	2% Mastic 68% Other	
OF-A-35	B135057	Brown sheet vinyl with yellow mastic, kitchen over 9" green tile-compact layered resilient fibrous	NAD	30% Synthetic	2% Mastic 68% Other	
OF-A-36	B135058	Brown sheet vinyl with yellow mastic, by hallway-compact layered resilient fibrous	NAD	30% Synthetic	2% Mastic 68% Other	
OF-A-37	B135059	**Beige sheet vinyl**-compact layered resilient fibrous	**60% Chrysotile in backing**	16% Cellulose	60% Other	
OF-A-38	B135060	**Beige sheet vinyl**, bathroom-compact layered resilient fibrous	**60% Chrysotile in backing**	16% Cellulose	60% Other	
OF-A-39	B135061	**Beige sheet vinyl**, bathroom by tub-compact layered resilient fibrous	**60% Chrysotile in backing**	16% Cellulose	60% Other	
OF-A-40	B135062	Concrete foundation wall SWC-grey/beige cementitious granular	NAD		100% Other	
HB-A-01	B135063	**Window glazing**, front window-yellow/grey hard compact with fibers	**5% Chrysotile in grey window glazing**		97% Other	
HB-A-02	B135064	**Window glazing**, east side-yellow/grey hard compact with fibers	**5% Chrysotile in grey window glazing**		97% Other	
HB-A-03	B135065	Window glazing, west side-yellow hard compact	NAD		100% Other	
HB-A-04	B135066	Stucco finish, exterior over concrete foundation-beige cementitious granular	NAD		100% Other	
HB-A-05	B135067	Stucco finish, exterior over concrete foundation west side-beige cementitious granular	NAD		100% Other	
HB-A-06	B135068	Stucco finish, exterior over concrete foundation front-beige cementitious granular	NAD		100% Other	
HB-A-07	B135069	Concrete foundation, exterior walls-grey cementitious granular	NAD		100% Other	
HB-A-08	B135070	Concrete foundation, interior walls-grey cementitious granular	NAD		100% Other	
HB-A-09	B135071	Concrete foundation, fish well/tank-grey cementitious granular	NAD		100% Other	
HB-A-10	B135072	Grey coating, interior of fish well-grey compact	NAD		100% Other	
HB-A-11	B135073	Grey coating, interior of fish well south tank-grey compact	NAD		100% Other	

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HB-A-12	B135074	Grey coating, interior of fish wall north tank-grey compact	NAD		100% Other	
HB-A-13	B135075	Brick/mortar chimney-orange/beige cementitious granular	NAD		100% Other	
HB-A-14	B135076	Brick/mortar chimney attic-orange/beige cementitious granular	NAD		100% Other	
HB-A-15	B135077	Brick/mortar chimney roof top-orange/beige cementitious granular	NAD		100% Other	
HB-A-16	B135078	Blown-in insulation-tan loose fibrous	NAD	85% Cellulose 15% Synthetic		
HB-A-17	B135079	Blown-in insulation-tan loose fibrous	NAD	85% Cellulose 15% Synthetic		
HB-A-18	B135080	Blown-in insulation-tan loose fibrous	NAD	85% Cellulose 15% Synthetic		
HB-A-19	B135081	Rigid foil covered foam board-silver/beige compact	NAD		100% Other	
HB-A-20	B135082	Rigid foil covered foam board-silver/beige compact	NAD		100% Other	
HB-A-21	B135083	Rigid foil covered foam board, walls of stairwell to attic-silver/beige compact	NAD		100% Other	
MH-A-01	B135084	**Window glazing**, exterior windows-white hard compact with fibers	**3% Chrysotile**		97% Other	
MH-A-02	B135085	**Window glazing**, exterior windows front-white hard compact with fibers	**3% Chrysotile**		97% Other	
MH-A-03	B135086	**Window glazing**, exterior windows north end-white hard compact with fibers	**3% Chrysotile**		97% Other	
MH-A-04	B135087	Brick/mortar chimney-red/beige cementitious granular	NAD		100% Other	
MH-A-05	B135088	Brick/mortar chimney roof top-red/beige cementitious granular	NAD		100% Other	
MH-A-06	B135089	Brick/mortar chimney basement-red/beige cementitious granular	NAD		100% Other	
MH-A-07	B135090	Blown-in insulation, attic/exterior walls-tan loose fibrous	NAD	100% Cellulose		
MH-A-08	B135091	Blown-in insulation, attic-tan loose fibrous	NAD	100% Cellulose		
MH-A-09	B135092	Blown-in insulation, exterior walls-tan loose fibrous	NAD	100% Cellulose		
MH-A-10	B135093	Batt insulation, back porch-yellow/pink loose fibrous	NAD	100% Glass		
MH-A-11	B135094	Batt insulation, drywall above ceiling-yellow/pink loose fibrous	NAD	100% Glass		
MH-A-12	B135095	Batt insulation, at damaged drywall-yellow/pink loose fibrous	NAD	100% Glass		
MH-A-13	B135096	Plaster over lath, interior walls/ceilings-beige cementitious granular	NAD		100% Other	
MH-A-14	B135097	Plaster over lath, front room wall-beige cementitious granular	NAD		100% Other	
MH-A-15	B135098	Plaster over lath, kitchen ceiling-beige cementitious granular	NAD		100% Other	

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Sample Number	Lab Number	Sample Type, Location, and Description	Asbestos Fibers	Non-Asbestos Fibers	Non-Fibrous Materials	Comments
MH-A-16	B135099	Drywall/joint compound-white semi compact powdery with fibers	NAD	15% Cellulose	85% Other	
MH-A-17	B135100	Drywall/joint compound, porch wall-white semi compact powdery with fibers	NAD	15% Cellulose	85% Other	
MH-A-18	B135101	Drywall/joint compound, porch ceiling-white semi compact powdery with fibers	NAD	15% Cellulose	85% Other	
MH-A-19	B135102	Ceramic tile grout, kitchen-white compact	NAD		100% Other	
MH-A-20	B135103	Ceramic tile grout, kitchen SW wall-white compact	NAD		100% Other	
MH-A-21	B135104	Ceramic tile grout, bathroom-white compact	NAD		100% Other	
MH-A-22	B135105	Off-white sheet vinyl with white mastic, kitchen-compact layered resilient	NAD		5% Mastic 95% Other	
MH-A-23	B135106	Off-white sheet vinyl with white mastic, dining-compact layered resilient	NAD		5% Mastic 95% Other	
MH-A-24	B135107	Off-white sheet vinyl with white mastic, laundry-compact layered resilient	NAD		5% Mastic 95% Other	
MH-A-25	B135108	Off-white sheet vinyl with white mastic, new over old yellow sheeting-compact layered resilient	NAD		5% Mastic 95% Other	
MH-A-26	B135109	Off-white sheet vinyl with white mastic, new over old yellow sheeting, bathroom-compact layered resilient	NAD		5% Mastic 95% Other	
MH-A-27	B135110	Off-white sheet vinyl with white mastic, new over old yellow sheeting, bathroom by tub-compact layered resilient	NAD		5% Mastic 95% Other	
MH-A-28	B135111	**Old yellow sheet vinyl** concealed beneath new bathroom vinyl-beige compact layered resilient fibrous	**60% Chrysotile in backing**	16% Cellulose	60% Other	
MH-A-29	B135112	**Old yellow sheet vinyl** concealed beneath new bathroom vinyl-beige compact layered resilient fibrous	**60% Chrysotile in backing**	16% Cellulose	60% Other	
MH-A-30	B135113	**Old yellow sheet vinyl** concealed beneath new bathroom vinyl by tub-beige compact layered resilient fibrous	**60% Chrysotile in backing**	16% Cellulose	60% Other	
MH-A-31	B135114	**White duct tape (paper) heating duct** basement-pliable fibrous	**65% Chrysotile**	20% Synthetic	15% Other	
MH-A-32	B135115	Concrete basement/foundation walls-grey cementitious granular	NAD		100% Other	
SF-A-01	B135116	Window glazing, exterior windows-white compact	NAD		100% Other	
SF-A-02	B135117	Window glazing, exterior windows front-white compact	NAD		100% Other	
SF-A-03	B135118	Window glazing, exterior windows west side-white compact	NAD		100% Other	
SF-A-04	B135119	CMU block/mortar chimney-grey	NAD		100% Other	

Sample Number	Lab Number	Sample Type, Location, and Description	Asbestos Fibers	Non-Asbestos Fibers	Non-Fibrous Materials	Comments
		cementitious granular				
SF-A-05	B135120	CMU block/mortar chimney-grey cementitious granular	NAD		100% Other	
SF-A-06	B135121	CMU block/mortar chimney roof top-grey cementitious granular	NAD		100% Other	
SF-A-07	B135122	Plaster, interior walls/ceilings shop-beige cementitious granular	NAD		100% Other	
SF-A-08	B135123	Plaster, interior walls/ceilings large freezer-beige cementitious granular	NAD		100% Other	
SF-A-09	B135124	Plaster, interior walls/ceilings visitor center-beige cementitious granular	NAD		100% Other	
SF-A-10	B135125	Blown-in insulation, attic/inside exterior walls-brown loose fibrous	NAD	40% Cellulose 60% Glass		
SF-A-11	B135126	Blown-in insulation, attic-brown loose fibrous	NAD	40% Cellulose 60% Glass		
SF-A-12	B135127	Blown-in insulation, inside walls beneath wood-brown loose fibrous	NAD	40% Cellulose 60% Glass		
SF-A-13	B135128	Rigid fiberglass insulation-yellow/black compact to loose bituminous fibrous	NAD	60% Glass	40% Other	
SF-A-14	B135129	Rigid fiberglass insulation, ceiling of large freezer-yellow/black compact to loose bituminous fibrous	NAD	60% Glass	40% Other	
SF-A-15	B135130	Rigid fiberglass insulation, ceiling of small freezer-yellow/black compact to loose bituminous fibrous	NAD	60% Glass	40% Other	
SF-A-16	B135131	Concrete foundation-grey cementitious granular	NAD		100% Other	
NH-A-01	B135132	Drywall/joint compound, interior walls/ceiling-white semi compact powdery with fibers	NAD	15% Cellulose	85% Other	
NH-A-02	B135133	Drywall/joint compound, kitchen wall - white semi compact powdery with fibers	NAD	15% Cellulose	85% Other	
NH-A-03	B135134	Drywall/joint compound, haliway ceiling-white semi compact powdery with fibers	NAD	15% Cellulose	85% Other	
NH-A-04	B135135	**Drywall texture,** interior walls/ceilings-white semi compact powdery with fibers	**3% Chrysotile in texture**	70% Cellulose	30% Other	
NH-A-05	B135136	**Drywall texture,** kitchen wall-white semi compact powdery with fibers	**3% Chrysotile in texture**	70% Cellulose	30% Other	
NH-A-06	B135137	**Drywall texture,** hallway ceiling-white semi compact powdery with fibers	**3% Chrysotile in texture**	70% Cellulose	30% Other	
NH-A-07	B135138	Drywall, no joint compound-white semi compact powdery with fibers	NAD	15% Cellulose	85% Other	
NH-A-08	B135139	Drywall, no joint compound, interior garage walls-white semi compact powdery with fibers	NAD	15% Cellulose	85% Other	
NH-A-09	B135140	Drywall, no joint compound, garage ceiling-white semi compact powdery	NAD	15% Cellulose	85% Other	

Sample Number	Lab Number	Sample Type, Location, and Description	Asbestos Fibers	Non-Asbestos Fibers	Non-Fibrous Materials	Comments
		with fibers				
NH-A-10	B135141	White sheet vinyl with yellow mastic, front entry-compact layered resilient fibrous	NAD	30% Synthetic	2% Mastic 68% Other	
NH-A-11	B135142	White sheet vinyl with yellow mastic, front entry-compact layered resilient fibrous	NAD	30% Synthetic	2% Mastic 68% Other	
NH-A-12	B135143	White sheet vinyl with yellow mastic, front entry-compact layered resilient fibrous	NAD	30% Synthetic	2% Mastic 68% Other	
NH-A-13	B135144	Grey sheet vinyl over beige sheet vinyl, kitchen-compact layered resilient fibrous	NAD	30% Synthetic	2% Mastic 68% Other	
NH-A-14	B135145	Grey sheet vinyl over beige sheet vinyl, dining-compact layered resilient fibrous	NAD	30% Synthetic	2% Mastic 68% Other	
NH-A-15	B135146	Grey sheet vinyl over beige sheet vinyl, back rest room-compact layered resilient fibrous	NAD	30% Synthetic	2% Mastic 68% Other	
NH-A-16	B135147	Off-white sheet vinyl with white mastic, bathroom-compact layered resilient	NAD		2% Mastic 98% Other	
NH-A-17	B135148	Off-white sheet vinyl with white mastic, bathroom closet-compact layered resilient	NAD		2% Mastic 98% Other	
NH-A-18	B135149	Off-white sheet vinyl with white mastic, bathroom, over old vinyl-compact layered resilient	NAD		2% Mastic 98% Other	
NH-A-19	B135150	Old sheet vinyl beneath new vinyl-beige compact layered resilient fibrous	NAD	30% Synthetic	70% Other	
NH-A-20	B135151	Old sheet vinyl beneath new vinyl, closet-beige compact layered resilient fibrous	NAD	30% Synthetic	70% Other	
NH-A-21	B135152	Old sheet vinyl beneath new vinyl, bathroom-beige compact layered resilient fibrous	NAD	30% Synthetic	70% Other	
NH-A-22	B135153	Exterior siding, rear of house-tan semi compact fibrous	NAD	90% Cellulose	10% Other	
NH-A-23	B135154	Exterior siding, north end-tan semi compact fibrous	NAD	90% Cellulose	10% Other	
NH-A-24	B135155	Exterior siding, south end-tan semi compact fibrous	NAD	90% Cellulose	10% Other	
NH-A-25	B135156	Batt/blown-in insulation, attic-pink loose fibrous	NAD	100% Glass		
NH-A-26	B135157	Foil covered batt insulation, walls-silver/pink loose fibrous	NAD	80% Glass	20% Other	
NH-A-27	B135158	Batt insulation, floor crawlspace-pink loose fibrous	NAD	100% Glass		
NH-A-28	B135159	CMU block/mortar, chimney-grey cementitious granular	NAD		100% Other	
NH-A-29	B135160	CMU block/mortar, chimney garage-	NAD		100% Other	

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Sample Number	Lab Number	Sample Type, Location, and Description	Asbestos Fibers	Non-Asbestos Fibers	Non-Fibrous Materials	Comments
		grey cementitious granular				
NH-A-30	B135161	Concrete foundation, SEC-grey cementitious granular	NAD		100% Other	

Sample component percentages may not total 100% for multi-layered samples

Glossary of Acronyms

NAD - No Asbestos Detected
PP-NAR - Presume Positive-No Analysis Required
AFC - Asbestos Found As Contaminant
TRACE - Detectable but not quantifiable
IS - Insufficient Sample -percentages may be inaccurate

Sampled by: Tim A. Bird

Analyzed by: Laurie Kuther
Chief Microscopist

Reviewed by: Jennifer Babione
Environmental Services Asst. Manager

Sample components are identified using polarized light microscopy (PLM) coupled with dispersion staining methods as determined by visual estimation. Small asbestos fibers may not be detected by PLM due to the resolution limitations of the optical microscope. Detecting asbestos in non-friable organically bound materials is not consistently reliable using PLM analysis. This test report relates only to the items tested in the sample as submitted to the laboratory.
Analysis method: Polarized Light Microscopy (PLM) by EPA/600/R-93/116 with Central Stop Dispersion by NIOSH 9002
American Industrial Hygiene Association (AIHA) Performance Analytical Testing (PAT) Laboratory Number 101571

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Contact Person: Josh Lewis
Project/P.O.#: DPW#17902

ASBESTOS/LEAD CHAIN OF CUSTODY/ SAMPLE TRANSMITTAL FORM

No.

Special Notes: Standard Turn
Please e-mail results/COC to:
tim.a.bird@aecom.com
thank you!
Tim Bird

Contact Person: Tim A. Bird W.O. # 2547.
Project Name: Clark Fork Fish Hatchery
Analysis Type: ✓PLM ☐PCM ☐TEM ☐LEAD ☐AIR ✓BULK ☐AA ☐TCLP ☐QA-QC (SPLIT) ☐Other
Turnaround Time: ☐Rush ☐24 Hour ✓Standard Requested: ✓Hard Copy ✓E-mail
Sample Status: ☐Return to client ☐Archive Sample for One Year
Samples Collected by: Tim Bird Calibration Method:

Lab #	Client Sample #	Date	Sample Type	Sample Description	Type Pump#	Time Started	Time Ended	Total Minutes	Flow Rate LPM	Volume (Liters)	Analyst	Fibers / Fields	F/mm	F/cc
	1 CFH-A-01	7/28/	Bulk	Concrete Foundation walls Fish Pens #1 W. of Summer Quarters										
	2 CFH-A-02			" " " Fish Pens #2 West of Summer Quarters										
	3 CFH-A-03			" " " Fish Pens #3 & 4 West of Hatchery Bldg.										
	4 SQ-A-01			Gray Batt Insulation Attic										
	5 SQ-A-02			" " " North east Corner										
	6 SQ-A-03			" " " South E. End										
	7 SQ-A-04			12"x20" Ceiling Tiles										
	8 SQ-A-05			" " " S. West Corner										
	9 SQ-A-06			" " " Light box Center of Space										
	10 SQ-A-07			Sheet Vinyl Flooring Over wood Subfloor										

TYPE: P = Personal, EL = Exclusion Limit, PA = Pre Abatement, C = Clearance, IWA = Inside Work Area, OWA = Outside Work Area, NAM = Negative Air Machine Exhaust, HF = High Flow, LF = Low Flow

Relinquished by (Date/Time)	Received by (Date/Time)	Relinquished by (Date/Time)	Received by (Date/Time)
8/2/16			

White = Client Copy Yellow = WA Copy Pink = with Sample

AECOM

AECOM - URS Professional Solutions
756 East Winchester Street, Suite 400
Salt Lake City, UT 84107

INVOICE TO:
Company Name: State of Idaho DPW
Address: 502 N. 4th Street
City/State/Zip: Boise, ID 83720
Phone#: (208) 332-1908
Contact Person: Josh Lewis
Project/P.O.#: DPW#17902

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Turnaround Time: ☐ Rush ☐ 24 Hour ☑ Standard Requested: ☑ Hard Copy ☑ E-mail
Sample Status: ☐ Return to client ☐ Archive Sample for One Year
Samples Collected by: Tim Bird Calibration Method:

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	1 SQ-A-08	7/28/16	Bulk	Sheet Vinyl Flooring over wood Sub Floor										
	2 SQ-A-09			" " " by Front door										
	3 SQ-A-10			Concrete foundation Exterior										
	4 EG-A-01			Window Glazing FrontEnd (South end)										
	5 EG-A-02			" " " Eastside										
	6 EG-A-03			" " " North end										
	7 EG-A-04			Brick/Mortar Chimney										
	8 EG-A-05			" " " Inside Front Section										
	9 EG-A-06			" " " Roof Top										
	10 EG-A-07			Concrete foundation NE Corner										

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	1 WG-A-01	7/28/16	Bulk	Window Glazing East end										
	2 WG-A-02			" " " Rear										
	3 WG-A-03			" " " West end										
	4 WG-A-04			Concrete Foundation NW Corner										
	5 OG-A-01	7/29/16		Window Glazing Eastside										
	6 OG-A-02			" " Westside										
	7 OG-A-03			" " Rear door										
	8 OG-A-04			Interior Drywall No Joint Compound										
	9 OG-A-05			" " " Rear wall										
	10 OG-A-06			" " " Ceiling										

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Lab #	Client Sample #	Date	Sample Type	Sample Description	Type Pump#	Time Started	Time Ended	Total Minutes	Flow Rate LPM	Volume (Liters)	Analyst	Fibers / Fields	F/mm	F/cc
	1 OG-A-07	7/29/16	Bulk	Concrete Foundation Wall										
	2 OF-A-01	"	"	Window Glazing Exterior (Front)										
	3 OF-A-02	"	"	" " " Rear										
	4 OF-A-03	"	"	" " " West end										
	5 OF-A-04	"	"	CMU (Block/Mortar) Exterior Roof Top										
	6 OF-A-05	"	"	" " " back porch										
	7 OF-A-06	"	"	" " " Attic										
	8 OF-A-07	"	"	Blown-In Insulation Attic/Exterior Walls										
	9 OF-A-08	"	"	" " " by Attic Access opening										
	10 OF-A-09	"	"	" " " West Exterior Wall										

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Lab #	Client Sample #	Date	Sample Type	Sample Description	Type Pump#	Time Started	Time Ended	Total Minutes	Flow Rate LPM	Volume (Liters)	Analyst	Fibers / Fields	F/mm	F/cc
	1 OF-A-10	7/29/16	Bulk	Batt Insulation Attic Addition										
	2 OF-A-11			" " " Crawlspace										
	3 OF-A-12			" " " NE Crawlspace										
	4 OF-A-13			Spray-on (Hallway) Ceiling Texture various locations										
	5 OF-A-14			" " " Front Bedroom										
	6 OF-A-15			" " " Rear Bedroom										
	7 OF-A-16			12"x12" Ceiling Tile Bed Room										
	8 OF-A-17			" " " North Bedroom										
	9 OF-A-18			" " " South west corner										
	10 OF-A-19			Plaster Wall/ Ceiling Finish various location										

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Lab #	Client Sample #	Date	Sample Type	Sample Description	Type Pump#	Time Started	Time Ended	Total Minutes	Flow Rate LPM	Volume (Liters)	Analyst	Fibers / Fields	F/mm	F/cc
	1 OF-A-20	7/29/16	Bulk	Plaster Finish Kitchen Interior Walls										
	2 OF-A-21			" " " bathroom Ceiling										
	3 OF-A-22			Ceramic tile Grout										
	4 OF-A-23			" " " Kitchen										
	5 OF-A-24			" " " Bath room										
	6 OF-A-25			Grey 9" Vinyl Floor Tile Black Mastic										
	7 OF-A-26			" " " over tar paper Rear porch at damage										
	8 OF-A-27			" " " Over Tar paper by Furnace										
	9 OF-A-28			Green Vinyl Floor Tile 9" & Black Mastic										
	10 OF-A-29			" " " Kitchen										

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Samples Collected by: Tim Bird Calibration Method:

Lab #	Client Sample #	Date	Sample Type	Sample Description	Type Pump#	Time Started	Time Ended	Total Minutes	Flow Rate LPM	Volume (Liters)	Analyst	Fibers / Fields	F/mm	F/cc
	1 OF-A-30	7/29/16	Bulk											
	2 OF-A-31			Tar paper beneath 9" VAT										
	3 OF-A-32			" " " Kitchen										
	4 OF-A-33			" " " Porch										
	5 OF-A-34			Brown Sheet Vinyl Flooring										
	6 OF-A-35			" " " Kitchen over 9" Green VAT										
	7 OF-A-36			" " " by hallway										
	8 OF-A-37			Beige Sheet Vinyl Flooring										
	9 OF-A-38			" " " Bath room										
	10 OF-A-39			" " " by Tub										

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Samples Collected by: Tim Bird Calibration Method:

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	1 OF-A-40	7/29/16	Bulk	Concrete Foundation Wall SW Corner										
	2 HB-A-01	7/28/16		Window Glazing Front Window										
	3 HB-A-02			" " " East side										
	4 HB-A-03			" " " Westside										
	5 HB-A-04			Stucco finish Exterior over Concrete Foundation										
	6 HB-A-05			" " " Westside										
	7 HB-A-06			" " " Front										
	8 HB-A-07			Concrete Foundation Exterior Walls										
	9 HB-A-08			" " " Interior Wall										
	10 HB-A-09			" " " Fish Well/Tank										

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Samples Collected by: Tim Bird Calibration Method:

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	1 HB-A-10	7/28/16	Bulk	Grey Coating Interior of Fish Well										
	2 HB-A-11			" " " South Tank										
	3 HB-A-12			" " " North Tank										
	4 HB-A-13			Brick/Mortar Chimney										
	5 HB-A-14			" " " Attic										
	6 HB-A-15			" " " Roof Top										
	7 HB-A-16			Blown-in Insulation										
	8 HB-A-17			" " " Attic										
	9 HB-A-18			" " " North end										
	10 HB-A-19			Rigid Foil Covered Foam board										

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	1 HB-A-20	7/28/16	Bulk	Rigid Foil Covered Foam Board										
	2 HB-A-21	"	"	" Walls of " Stair Well to Attic										
	3 MH-A-01	"	"	Window Glazing Exterior Windows										
	4 MH-A-02	"	"	" " " Front										
	5 MH-A-03	"	"	" " " North End										
	6 MH-A-04	"	"	Brick/Mortar Chimney										
	7 MH-A-05	"	"	" " " Roof Top										
	8 MH-A-06	"	"	" " " Basement										
	9 MH-A-07	"	"	Blown-in Insulation Attic/Ext. Walls										
	10 MH-A-08	"	"	" " " Attic										

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	1 MH-A-09	7/28/16	Bulk	Blown-in Insulation Exterior Walls										
	2 MH-A-10			Batt Insulation Back Porch										
	3 MH-A-11			" " " Dry-wall above Ceiling										
	4 MH-A-12			" " " at damaged Drywall										
	5 MH-A-13			Plaster over Lath Interior Walls/Ceilings										
	6 MH-A-14			" " " Front Room Wall										
	7 MH-A-15			" " " Kitchen Ceiling										
	8 MH-A-16			Drywall/Joint Compound										
	9 MH-A-17			" " " Porch Wall										
	10 MH-A-18			" " " Porch Ceiling										

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Samples Collected by: Tim Bird Calibration Method:

Lab #	Client Sample #	Date	Sample Type	Sample Description	Type Pump#	Time Started	Time Ended	Total Minutes	Flow Rate LPM	Volume (Liters)	Analyst	Fibers / Fields	F/mm	F/cc
	1 MH-A-19	7/28/16	Bulk	Ceramic Tile Kitchen										
	2 MH-A-20			" " " S.W. wall										
	3 MH-A-21			" " " Bathroom										
	4 MH-A-22			Sheet Vinyl off white Flooring Kitchen										
	5 MH-A-23			" " " Dining Area										
	6 MH-A-24			" " " Laundry										
	7 MH-A-25			Sheet Vinyl Flooring New over old Yellow Sheeting										
	8 MH-A-26			" " " Bathroom										
	9 MH-A-27			" " " by Tub										
	10 MH-A-28			Old Yellow Sheet Vinyl concealed beneath										

TYPE: P = Personal, EL = Excursion Limit, PA = Pre-Abatement, C = Clearance, IWA = Inside Work Area, OWA = Outside Work Area, NAM = Negative Air Machine Exhaust, HF = High Flow, LF = Low Flow

Relinquished by (Date/Time)	Received by (Date/Time)	Relinquished by (Date/Time)	Received by (Date/Time)
8/2/16			

White = Client Copy Yellow = WA Copy Pink = with Sample

AECOM – URS Professional Solutions
756 East Winchester Street Suite 400
Salt Lake City, UT 84107

INVOICE TO:
Company Name: State of Idaho DPW
Address: 502 N. 4th Street
City/State/Zip: Boise, ID 83720
Phone#: (208) 332-1908
Contact Person: Josh Lewis
Project/P.O.#: DPW#17902

ASBESTOS/LEAD CHAIN OF CUSTODY/ SAMPLE TRANSMITTAL FORM

No.

Special Notes: Standard Turn
Please e-mail results/COC to:
tim.a.bird@aecom.com
thank you!
Tim Bird

Contact Person: Tim A. Bird W.O. # 2547.
Project Name: Clark Fork Fish Hatchery

Analysis Type: ✓PLM ☐PCM ☐TEM ☐LEAD ☐AIR ✓BULK ☐AA ☐TCLP ☐QA/QC (SPLIT) ☐Other
Turnaround Time: ☐Rush ☐24 Hour ✓Standard Requested ✓Hard Copy ✓E-mail
Sample Status: ☐Return to client ☐Archive Sample for One Year

Samples Collected by: Tim Bird Calibration Method

Lab #	Client Sample #	Date	Sample Type	Sample Description	Type Pump#	Time Started	Time Ended	Total Minutes	Flow Rate LPM	Volume (Liters)	Analyst	Fibers / Fields	F/mm	F/cc
	1 MH-A-29	7/28/16	Bulk	old Sheet Vinyl Beneath New Bathroom Vinyl										
	2 MH-A-30			" " " by Tub										
	3 MH-A-31			White Duct Tap (paper) Heating Duct Basement										
	4 MH-A-32			Concrete Basement/ Foundation walls										
	5 SF-A-01			Window Glazing Exterior Windows										
	6 SF-A-02			" " " Front										
	7 SF-A-03			" " " West side										
	8 SF-A-04			CMU Block/Mortar Chimney										
	9 SF-A-05			" " "										
	10 SF-A-06			" " " Roof Top										

TYPE: P = Personal, EL = Excursion Limit, PA = Pre Abatement, C = Clearance, IWA = Inside Work Area, OWA = Outside Work Area, NAM = Negative Air Machine Exhaust, HF = High Flow, LF = Low Flow

Relinquished by (Date/Time)	Received by (Date/Time)	Relinquished by (Date/Time)	Received by (Date/Time)
8/2/16			

FM0011 3/12 White = Client Copy Yellow = WA Copy Pink = with Sample

Page 13 of 17

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Salt Lake City, UT 84107

INVOICE TO:
Company Name: State of Idaho DPW
Address: 502 N. 4th Street
City/State/Zip: Boise, ID 83720
Phone#: (208) 332-1908
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Project/P.O.#: DPW#17902

ASBESTOS/LEAD CHAIN OF CUSTODY/ SAMPLE TRANSMITTAL FORM

No.

Special Notes: Standard Turn
Please e-mail results/COC to:
tim.a.bird@aecom.com
thank you!
Tim Bird

Contact Person: Tim A. Bird W.O. # 2547.
Project Name: Clark Fork Fish Hatchery
Analysis Type: ✓PLM ☐PCM ☐TEM ☐LEAD ☐AIR ✓BULK ☐AA ☐TCLP ☐QA-QC (SPLIT) ☐Other
Turnaround Time: ☐Rush ☐24 Hour ✓Standard Requested: ✓Hard Copy ✓E-mail
Sample Status: ☐Return to client ☐Archive Sample for One Year
Samples Collected by: Tim Bird Calibration Method

Lab #	Client Sample #	Date	Sample Type	Sample Description	Type Pump#	Time Started	Time Ended	Total Minutes	Flow Rate LPM	Volume (Liters)	Analyst	Fibers / Fields	F/mm	F/cc
	1 SF-A-07	7/28/16	Bulk	Plaster Interior walls/Ceilings Shop										
	2 SF-A-08			" " " Large Freezer										
	3 SF-A-09			" " " Visitor Center										
	4 SF-A-10			Blown-in Insulation Attic/Inside Exterior Walls										
	5 SF-A-11			" " " ATTIC										
	6 SF-A-12			" " " Inside walls beneath wood										
	7 SF-A-13			Rigid Fiberglass Insulation										
	8 SF-A-14			" " " Ceiling of Large Freezer										
	9 SF-A-15			" " " Ceiling of Small Freezer										
	10 SF-A-16			Concrete Foundation										

TYPE: P = Personal, EL = Exclusion Limit, PA = Pre-Abatement, C = Clearance, IWA = Inside Work Area, OWA = Outside Work Area, NAM = Negative Air Machine Exhaust, HF = High Flow, LF = Low Flow

Relinquished by (Date/Time)	Received by (Date/Time)	Relinquished by (Date/Time)	Received by (Date/Time)
8/2/16			

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756 East Winchester Street, Suite 400
Salt Lake City, UT 84107

INVOICE TO:
Company Name: State of Idaho DPW
Address: 502 N. 4th Street
City/State/Zip: Boise, ID 83720
Phone#: (208) 332-1908
Contact Person: Josh Lewis
Project/P.O.#: DPW#17902

ASBESTOS/LEAD CHAIN OF CUSTODY/ SAMPLE TRANSMITTAL FORM

No.

Special Notes: Standard Turn
Please e-mail results/COC to:
tim.a.bird@accomcom
thank you!
Tim Bird

Contact Person: Tim A. Bird W.O. # 2547.
Project Name: Clark Fork Fish Hatchery

Analysis Type: ☑ PLM ☐ PCM ☐ TEM ☐ LEAD ☐ AIR ☑ BULK ☐ AA ☐ TCLP ☐ QA/QC (SPLIT) ☐ Other
Turnaround Time: ☐ Rush ☐ 24 Hour ☑ Standard Requested: ☑ Hard Copy ☑ E-mail
Sample Status: ☐ Return to client ☐ Archive Sample for One Year

Samples Collected by: Tim Bird Calibration Method:

Lab #	Client Sample #	Date	Sample Type	Sample Description	Type Pump#	Time Started	Time Ended	Total Minutes	Flow Rate LPM	Volume (Liters)	Analyst	Fibers / Fields	F/mm	F/cc
	1 NH-A-01	7/28/16	Bulk	Drywall/Joint Compound Interior Walls/Ceilings										
	2 NH-A-02			Kitchen Wall										
	3 NH-A-03			Hallway Ceiling										
	4 NH-A-04			Drywall Texture Interior Walls/Ceilings										
	5 NH-A-05			Kitchen Wall										
	6 NH-A-06			Hallway Ceiling										
	7 NH-A-07			Drywall No Joint Compound										
	8 NH-A-08			Interior Garage Walls										
	9 NH-A-09			Garage Ceiling										
	10 NH-A-10			Sheet Vinyl Flooring Front Entry										

TYPE: P = Personal, EL = Exclusion Limit, PA = Pre-Abatement, C = Clearance, IWA = Inside Work Area, OWA = Outside Work Area, NAM = Negative Air Machine Exhaust, HF = High Flow, LF = Low Flow

Relinquished by (Date/Time)	Received by (Date/Time)	Relinquished by (Date/Time)	Received by (Date/Time)
8/2/16			

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Version 3/12 White = Client Copy Yellow = WA Copy Pink = with Sample

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Phone#: (208) 332-1908
Contact Person: Josh Lewis
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ASBESTOS/LEAD CHAIN OF CUSTODY/ SAMPLE TRANSMITTAL FORM

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tim.a.bird@aecom.com
thank you!
Tim Bird

Contact Person: Tim A. Bird W.O. # 2547.
Project Name: Clark Fork Fish Hatchery

Analysis Type: ✓PLM ☐PCM ☐TEM ☐LEAD ☐AIR ✓BULK ☐AA ☐TCLP ☐QA-QC (SPLIT) ☐Other
Turnaround Time ☐Rush ☐24 Hour ✓Standard Requested: ✓Hard Copy ✓E-mail
Sample Status ☐Return to client ☐Archive Sample for One Year

Samples Collected by: Tim Bird Calibration Method

Lab #	Client Sample #	Date	Sample Type	Sample Description	Type Pump#	Time Started	Time Ended	Total Minutes	Flow Rate LPM	Volume (Liters)	Analyst	Fibers / Fields	F/mm	F/cc
	1 NH-A-11	7/28/16	Bulk	Sheet Vinyl Flooring Front Entry										
	2 NH-A-12			" " " by Frontdoor										
	3 NH-A-13			Sheet Vinyl Flooring Kitchen										
	4 NH-A-14			" " " Dining Area										
	5 NH-A-15			" " " Back RestRoom										
	6 NH-A-16			Sheet Vinyl Flooring Bathroom										
	7 NH-A-17			" " " Bathroom Closet										
	8 NH-A-18			" " " Over old vinyl										
	9 NH-A-19			Old Sheet Vinyl beneath New Vinyl										
	10 NH-A-20	↓	↓	" " " Closet										

TYPE: P = Personal, EL = Excursion Limit, PA = Pre-Abatement, C = Clearance, IWA = Inside Work Area, OWA = Outside Work Area, NAM = Negative Air Machine Exhaust, HF = High Flow, LF = Low Flow

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8/2/16			

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756 East Winchester Street, Suite 400
Salt Lake City, UT 84107

INVOICE TO:
Company Name: State of Idaho DPW
Address: 502 N. 4th Street
City/State/Zip: Boise, ID 83720
Phone#: (208) 332-1908
Contact Person: Josh Lewis
Project/P.O.#: DPW#17902

ASBESTOS/LEAD CHAIN OF CUSTODY/ SAMPLE TRANSMITTAL FORM

No.

Special Notes: Standard Turn
Please e-mail results/COC to:
tim.a.bird@aecom.com
thank you!
Tim Bird

Contact Person: Tim A. Bird W.O. # 2547.
Project Name: Clark Fork Fish Hatchery

Analysis Type: ✓PLM ☐PCM ☐TEM ☐LEAD ☐AIR ✓BULK ☐AA ☐TCLP ☐QA/QC (SPLIT) ☐Other
Turnaround Time: ☐Rush ☐24 Hour ✓Standard Requested ✓Hard Copy ✓E-mail
Sample Status: ☐Return to client ☐Archive Sample for One Year

Samples Collected by: Tim Bird
Calibration Method:

Lab #	Client Sample #	Date	Sample Type	Sample Description	Type Pump#	Time Started	Time Ended	Total Minutes	Flow Rate LPM	Volume (Liters)	Analyst	Fibers / Fields	F/mm	F/cc
	1 NH-A-21	7/28/16	Bulk	Old Sheet Vinyl beneath New Sheet Vinyl Bathroom										
	2 NH-A-22			Exterior Siding Rear of House										
	3 NH-A-23			" " " North End										
	4 NH-A-24			" " " South End										
	5 NH-A-25			Batt/Blown-in Insulation Attic										
	6 NH-A-26			Foil Covered Batt Insulation Walls										
	7 NH-A-27			Batt Insulation Floor Crawlspace										
	8 NH-A-28			CMU Block/Mortar Chimney										
	9 NH-A-29			" " " Garage										
	10 NH-A-30			Concrete Foundation S.E. Corner										

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8/2/16			

Page 17 of 17

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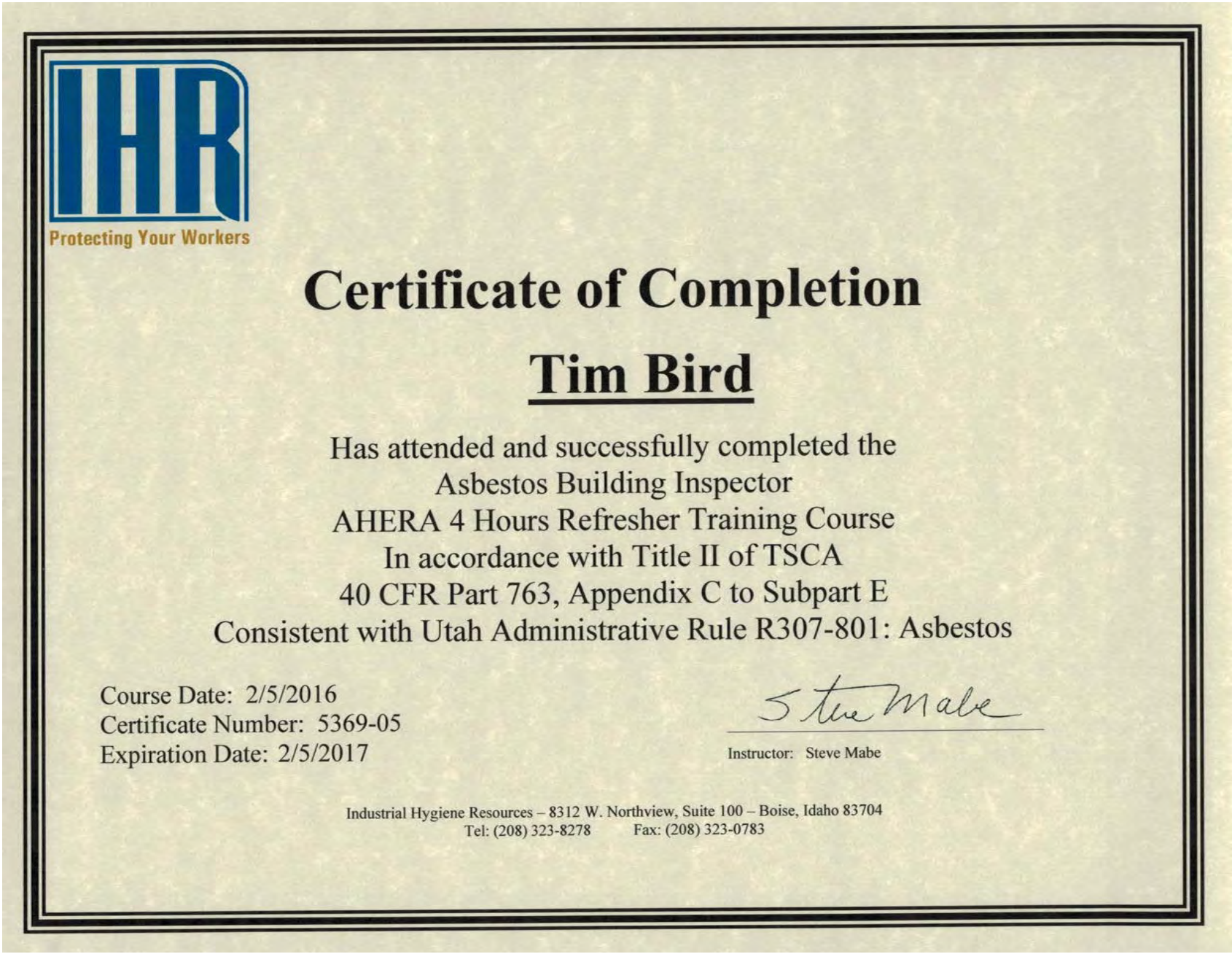

IHR
Protecting Your Workers

Certificate of Completion

Tim Bird

Has attended and successfully completed the
Asbestos Building Inspector
AHERA 4 Hours Refresher Training Course
In accordance with Title II of TSCA
40 CFR Part 763, Appendix C to Subpart E
Consistent with Utah Administrative Rule R307-801: Asbestos

Course Date: 2/5/2016
Certificate Number: 5369-05
Expiration Date: 2/5/2017

Steve Mabe

Instructor: Steve Mabe

Industrial Hygiene Resources – 8312 W. Northview, Suite 100 – Boise, Idaho 83704
Tel: (208) 323-8278 Fax: (208) 323-0783

2.2.2 Lead Paint

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Idaho Division Of Public Works
502 N. 4th St, PO Box 83720
Boise ID 83720-0072

Client: IDA118

Report Date: 8/9/2016
Report No.: 516306 - Lead Paint
Project: Clark Fork Fish Hatchery
Project No.: DPW# 17902

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.:5995929 **Client No.:**OF-L-01	**Description:**Beige **Location:**Ext. Over Wood Siding, 7/28 And 7/29/16	**Result (% by Weight):**2.1 **Result (ppm):**21000 **Comments:**
Lab No.:5995930 **Client No.:**OF-L-02	**Description:**Brown Over White/Green **Location:**Ext. Trim Windows, 7/28 And 7/29/16	**Result (% by Weight):**4.0 **Result (ppm):**40000 **Comments:**
Lab No.:5995931 **Client No.:**OF-L-03	**Description:**Red Over White/Green **Location:**Ext. Trim Windows, 7/28 And 7/29/16	**Result (% by Weight):**4.5 **Result (ppm):**45000 **Comments:**
Lab No.:5995932 **Client No.:**OF-L-04	**Description:**Off-White **Location:**Int. Walls Various Locations, 7/28 And 7/29/16	**Result (% by Weight):**<0.0069 **Result (ppm):**<69 **Comments:**
Lab No.:5995933 **Client No.:**OF-L-05	**Description:**Off-White **Location:**Int. Kitchen Cabinets/Trim, 7/28 And 7/29/16	**Result (% by Weight):**17 **Result (ppm):**170000 **Comments:**
Lab No.:5995934 **Client No.:**OG-L-01	**Description:**Beige **Location:**Ext. Over Wood Siding, 7/28 And 7/29/16	**Result (% by Weight):**0.84 **Result (ppm):**8400 **Comments:**
Lab No.:5995935 **Client No.:**OG-L-02	**Description:**Brown **Location:**Ext. Windows, 7/28 And 7/29/16	**Result (% by Weight):**1.3 **Result (ppm):**13000 **Comments:**
Lab No.:5995936 **Client No.:**EG-L-01	**Description:**Pale Pink **Location:**Ext. Wood Siding, 7/28 And 7/29/16	**Result (% by Weight):**7.4 **Result (ppm):**74000 **Comments:**

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 8/2/2016
Date Analyzed: 08/09/2016
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

Dated : 8/9/2016 2:59:37 PM

Page 1 of 7

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Asbestos Testing Laboratories

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Idaho Division Of Public Works
502 N. 4th St, PO Box 83720
Boise ID 83720-0072

Client: IDA118

Report Date: 8/9/2016
Report No.: 516306 - Lead Paint
Project: Clark Fork Fish Hatchery
Project No.: DPW# 17902

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.:5995937 **Client No.:**EG-L-02	**Description:**Red Over Green **Location:**Ext. Trim Over Windows, 7/28 And 7/29/16	**Result (% by Weight):**7.8 **Result (ppm):**78000 **Comments:**
Lab No.:5995938 **Client No.:**EG-L-03	**Description:**Pale Pink **Location:**Int. Wood, 7/28 And 7/29/16	**Result (% by Weight):**9.6 **Result (ppm):**96000 **Comments:**
Lab No.:5995939 **Client No.:**WG-L-01	**Description:**Off-White **Location:**Ext. Over Wood Siding, 7/28 And 7/29/16	**Result (% by Weight):**6.5 **Result (ppm):**65000 **Comments:**
Lab No.:5995940 **Client No.:**WG-L-02	**Description:**Beige **Location:**Ext. Concrete Foundation, 7/28 And 7/29/16	**Result (% by Weight):**0.051 **Result (ppm):**510 **Comments:**
Lab No.:5995941 **Client No.:**WG-L-03	**Description:**Off-White **Location:**Int. Over Wood Walls/Trim, 7/28 And 7/29/16	**Result (% by Weight):**3.9 **Result (ppm):**39000 **Comments:**
Lab No.:5995942 **Client No.:**NH-L-01	**Description:**Beige **Location:**Ext. Over Wood Siding, 7/28 And 7/29/16	**Result (% by Weight):**0.099 **Result (ppm):**990 **Comments:**
Lab No.:5995943 **Client No.:**NH-L-02	**Description:**Dk.Brown **Location:**Ext. Trim , 7/28 And 7/29/16	**Result (% by Weight):**0.12 **Result (ppm):**1200 **Comments:**
Lab No.:5995944 **Client No.:**NH-L-03	**Description:**Off-White **Location:**Int. Walls/Ceiling/Trim, 7/28 And 7/29/16	**Result (% by Weight):**0.0072 **Result (ppm):**72 **Comments:**

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 8/2/2016
Date Analyzed: 08/09/2016
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

Dated : 8/9/2016 2:59:37 PM

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CERTIFICATE OF ANALYSIS

Client: Idaho Division Of Public Works
502 N. 4th St, PO Box 83720
Boise ID 83720-0072

Client: IDA118

Report Date: 8/9/2016
Report No.: 516306 - Lead Paint
Project: Clark Fork Fish Hatchery
Project No.: DPW# 17902

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.:5995945 **Client No.:**SF-L-01	**Description:**Off-White **Location:**Ext. Siding/Trim, 7/28 And 7/29/16	**Result (% by Weight):**2.5 **Result (ppm):**25000 **Comments:**
Lab No.:5995946 **Client No.:**SF-L-02	**Description:**Red Over Green **Location:**Ext. Trim Windows, 7/28 And 7/29/16	**Result (% by Weight):**3.7 **Result (ppm):**37000 **Comments:**
Lab No.:5995947 **Client No.:**SF-L-03	**Description:**White **Location:**Int. Walls/Ceiling, 7/28 And 7/29/16	**Result (% by Weight):**0.012 **Result (ppm):**120 **Comments:**
Lab No.:5995948 **Client No.:**SF-L-04	**Description:**Grey **Location:**Int. Trim Walls/Doors/Wainscot	**Result (% by Weight):**0.096 **Result (ppm):**960 **Comments:**
Lab No.:5995949 **Client No.:**SF-L-05	**Description:**Off-White Over Teal **Location:**Int. Walls/Ceiling, 7/28 And 7/29/16	**Result (% by Weight):**0.0099 **Result (ppm):**99 **Comments:**
Lab No.:5995950 **Client No.:**SQ-L-01	**Description:**Off-White **Location:**Ext, Wood Siding, 7/28 And 7/29/16	**Result (% by Weight):**4.8 **Result (ppm):**48000 **Comments:**
Lab No.:5995951 **Client No.:**SQ-L-02	**Description:**Red **Location:**Ext. Trim Wood Windows, 7/28 And 7/29/16	**Result (% by Weight):**4.5 **Result (ppm):**45000 **Comments:**
Lab No.:5995952 **Client No.:**SQ-L-03	**Description:**Off-White **Location:**Int. Wood Trim/Paneling, 7/28 And 7/29/16	**Result (% by Weight):**2.5 **Result (ppm):**25000 **Comments:**

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 8/2/2016
Date Analyzed: 08/09/2016
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

Dated : 8/9/2016 2:59:37 PM

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CERTIFICATE OF ANALYSIS

Client: Idaho Division Of Public Works
502 N. 4th St, PO Box 83720
Boise ID 83720-0072

Client: IDA118

Report Date: 8/9/2016
Report No.: 516306 - Lead Paint
Project: Clark Fork Fish Hatchery
Project No.: DPW# 17902

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.:5995953 **Client No.:**HB-L-01	**Description:**Off-White **Location:**Ext. Wood Siding, 7/28 And 7/29/16	**Result (% by Weight):**13 **Result (ppm):**130000 **Comments:**
Lab No.:5995954 **Client No.:**HB-L-02	**Description:**Reddish Brown **Location:**Ext. Trim Windows, 7/28 And 7/29/16	**Result (% by Weight):**1.3 **Result (ppm):**13000 **Comments:**
Lab No.:5995955 **Client No.:**HB-L-03	**Description:**Silver (Grey) **Location:**Int. Over Wood, 7/28 And 7/29/16	**Result (% by Weight):**0.25 **Result (ppm):**2500 **Comments:**
Lab No.:5995956 **Client No.:**HB-L-04	**Description:**Green **Location:**Int. Trim, 7/28 And 7/29/16	**Result (% by Weight):**Void **Result (ppm):**Void **Comments:****
Lab No.:5995957 **Client No.:**HB-L-05	**Description:**Grey **Location:**Int./Wood Columns Concrete Fish Tanks, 7/28 And 7/29/16	**Result (% by Weight):**0.013 **Result (ppm):**130 **Comments:**
Lab No.:5995958 **Client No.:**HB-L-06	**Description:**Off-White (Beige) **Location:**Int. Walls/Ceiling Various Locations, 7/28 And 7/29/16	**Result (% by Weight):**0.60 **Result (ppm):**6000 **Comments:**
Lab No.:5995959 **Client No.:**HB-L-07	**Description:**Brown **Location:**Ext. Wood Window Frames, 7/28 And 7/29/16	**Result (% by Weight):**7.5 **Result (ppm):**75000 **Comments:**
Lab No.:5995960 **Client No.:**HB-L-08	**Description:**Beige **Location:**Ext. Concrete Foundation Walls, 7/28 And 7/29/16	**Result (% by Weight):**5.9 **Result (ppm):**59000 **Comments:**

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 8/2/2016
Date Analyzed: 08/09/2016
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

Dated : 8/9/2016 2:59:37 PM

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CERTIFICATE OF ANALYSIS

Client: Idaho Division Of Public Works
502 N. 4th St, PO Box 83720
Boise ID 83720-0072

Client: IDA118

Report Date: 8/9/2016
Report No.: 516306 - Lead Paint
Project: Clark Fork Fish Hatchery
Project No.: DPW#17902

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.:5995961 **Client No.:**MH-L-01	**Description:**Beige **Location:**Ext. Wood Siding, 7/28 And 7/29/16	**Result (% by Weight):**0.040 **Result (ppm):**400 **Comments:**
Lab No.:5995962 **Client No.:**MH-L-02	**Description:**Reddish Brown **Location:**Ext. Windows/Trim, 7/28 And 7/29/16	**Result (% by Weight):**7.1 **Result (ppm):**71000 **Comments:**
Lab No.:5995963 **Client No.:**MH-L-03	**Description:**Off-White **Location:**Int. Trim, Doors/Cabinets, 7/28 And 7/29/16	**Result (% by Weight):**14 **Result (ppm):**140000 **Comments:**
Lab No.:5995964 **Client No.:**MH-L-04	**Description:**Beige **Location:**Int. Back Porch, 7/28 And 7/29/16	**Result (% by Weight):**3.8 **Result (ppm):**38000 **Comments:**
Lab No.:5995965 **Client No.:**MH-L-05	**Description:**Grey **Location:**Int. Floor, Walls, 7/28 And 7/29/16	**Result (% by Weight):**2.8 **Result (ppm):**28000 **Comments:**
Lab No.:5995966 **Client No.:**MH-L-06	**Description:**Off-White **Location:**Int. Walls/Ceilings, 7/28 And 7/29/16	**Result (% by Weight):**<0.0079 **Result (ppm):**<79 **Comments:**

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 8/2/2016
Date Analyzed: 08/09/2016
Signature:
Analyst: Chad Shaffer

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

Dated : 8/9/2016 2:59:37 PM

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9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054
Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Chain of Custody

– Environmental Lead –

Contact Information

Client Company:	State of Idaho DPW	**Project Number:**	DPW# 17902
Office Address:	502 N. 4th Street, P.O. Box 83720	**Project Name:**	Clark Fork Fish Hatchery
City, State, Zip:	Boise, ID 83720-0072	**Primary Contact:**	Josh Lewis
Fax Number:	(208) 334-4031	**Office Phone:**	(208) 332-1908 (Josh Lewis)
Email Address:	tim.a.bird@aecom.com (Tim Bird)	**Cell Phone:**	(208) 890-5062 (Tim Bird,URS)

iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs.

Matrix/Method:

- ☑ Paint by AAS: ASTM D3335-85a, 2009
- ☐ Wipe/Dust by AAS: SW 846: 3050B: 700B, 2010
- ☐ Air by AAS: NIOSH 7082, 1994
- ☐ Soil by AAS: EPA SW 846 (Soil)
- ☐ Water by AAS-GF: ASTM D3559-03D, USEPA 40CFR 141.11B, 2010
- ☐ Other Metals (Cd, Zn, Cr) by AAS
- ☐ Toxicity Characteristic Leaching Procedure (TCLP) by AAS: USEPA 1311
- ☐ Other _____

E-MAILED 8-9-16 AO

Special Instructions:

Please e-mail results to: tim.a.bird@aecom.com

Turnaround Time

Preliminary Results Requested Date: August 9th, 2016 (Specific date / time) ☐ Verbal ■ Email ☐ Fax

☐ 10 Day ■ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day* ☐ 12 Hour** ☐ 6 Hour** ☐ RUSH**

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* End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***

Chain of Custody

Relinquished (Name/Organization):	Tim A. Bird, AECOM	Date: 8-1-16	Time: 1630 hours
Received (Name / iATL):		Date:	Time:
Sample Login (Name / iATL):		Date: 8/2/16	Time:
Analysis(Name(s) / iATL):	COS/9/16	Date:	Time:
QA/QC Review (Name / iATL):		Date: 8/9/16	Time: AUG - 2 2016
Archived / Released: _____	QA/QC InterLAB Use: ____	Date:	Time:

RECEIVED

iATL - 5K

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iATL INTERNATIONAL
9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054
Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Sample Log

–Environmental Lead –

Client: State of Idaho DPW Project: Clark Fork Fish Hatchery

Sampling Date/Time: July 28th & 29th

Client Sample #	iATL #	Location/ Description	Flow Rate	Start / End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
OF-L-01	5995929	Beige Ext. Paint over wood siding				4sq-inches	
OF-L-02	5995930	Brown Ext. Trim windows over white/Green				3sq-inches	
OF-L-03	5995931	Red Ext. Trim windows over White/Green				6sq-inches	
OF-L-04	5995932	Off white Int. Walls various locations				2sq-inches	
OF-L-05	5995933	off white Int. Kitchen Cabinets/Trim				1sq-inch	
OG-L-01	5995934	Beige Ext. Paint over wood siding				3sq-inches	
OG-L-02	5995935	Brown Ext. Paint windows				4sq-inches	
EG-L-01	5995936	Pale Pink Ext. Paint wood siding				3sq-inches	
EG-L-02	5995937	Red Ext. Trim windows-over Green				2sq-inches	
EG-L-03	5995938	Pale Pink Int. Paint over wood				1sq-inch.	
WG-L-01	5995939	Off-white Ext. Paint over wood siding				4sq-inches	
WG-L-02	5995940	Beige Ext. Concrete Foundation				2sq-inches	

** = Insufficient Sample Provided to Perform QC Reanalysis (<200mg)*
*** = Insufficient Sample Provided to Analyze (<50mg) ***= Matrix / Substrate Interference Possible*
FB = Method Requires the submittal of blank(s). ML = Multi Layered Sample. May result in inconsistent results.
These **preliminary results** are issued by iATL to expedite procedures by clients based upon the above data. iATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director Final Certificate of Analysis will follow these preliminary results. The signed COA is to be considered the official results. All EPA, HUD, and NJDEP conditions apply.

iATL INTERNATIONAL
Asbestos Testing Laboratories

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Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Sample Log

–Environmental Lead –

Client: State of Idaho DPW Project: Clark Fork Fish Hatchery

Sampling Date/Time: July 28th & 29th

Client Sample #	iATL #	Location/ Description	Flow Rate	Start / End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
WG-L-03	5995941	Off-White Ext. Paint over wood walls/Trim				2sq-inches	
NH-L-01	5995942	Beige Ext. Paint over wood siding				2sq-inches	
NH-L-02	5995943	Dark Brown Ext Trim over Green				2sq-inches	
NH-L-03	5995944	off-white Interior Paint walls/ceiling/Trim				1sq-inch	
SF-L-01	5995945	Off-White Ext. Paint Siding/Trim				5sq-inches	
SF-L-02	5995946	Red Ext. Trim windows over Green				5sq-inches	
SF-L-03	5995947	White Interior Paint walls/ceiling				14sq-inches	
SF-L-04	5995948	Grey Interior Trim walls/doors/wainscot				2sq-inches	
SF-L-05	5995949	off-White Interior (Beige) walls/ceiling over Teal				8sq-inches	
SQ-L-01	5995950	off-white Ext Paint wood siding				6sq-inches	
SQ-L-02	5995951	Red Ext. Trim wood windows				3sq-inches	
SQ-L-03	5995952	Off-white Interior Paint wood Trim/paneling				1sq-inch	

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Sample Log

–Environmental Lead –

Client: State of Idaho DPW Project: Clark Fork Fish Hatchery

Sampling Date/Time: July 28th & 29th

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
HB-L-01	5995953	Off-White Ext. Paint wood siding			8sq-inches		
HB-L-02	5995954	Reddish Brown Ext. Trim Windows			8sq-inches		
HB-L-03	5995955	Silver Interior (Grey) Paint over wood			6sq-inches		
HB-L-04	5995956	Green Interior Trim			2sq-inches		
HB-L-05	5995957	Grey Interior/wood Columns Concrete fish Tanks			4sq-inches		
HB-L-06	5995958	off-white (Beige) Interior walls/Ceiling various loc.			4sq-inches		
HB-L-07	5995959	Brown Ext. Paint wood window Frames			4sq-inches		
HB-L-08	5995960	Beige Ext Paint Concrete Foundation walls			4sq-inches		
MH-L-01	5995961	Beige Ext. Paint wood Siding			10sq-inches		
MH-L-02	5995962	Reddish Brown Ext. Windows/Trim			4sq-inches		
MH-L-03	5995963	Off-white Interior Paint Trim, Doors/Cabinets			1sq-inch		
MH-L-04	5995964	Beige Interior Paint Back porch			1sq-inch		
MH-L-05	5995965	Grey Interior Paint Floor, Walls			5sq-inches		
MH-L-06	5995966	off-white Interior Paint walls/Ceilings			4sq-inches		

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iATL

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3.0 SURVEY METHODOLOGY, REGULATIONS AND RECOMMENDATIONS

3.1 Survey Methodology

To gather the greatest quantity of information in the time available, several investigative techniques were utilized. These included interviews with building maintenance personnel, a visual inspection and assessment of the building, sampling of suspect materials, and quantification of all confirmed asbestos-containing materials.

The inspector obtained and submitted for Polarized Light Microscopy (PLM) analysis multiple bulk samples of all accessible materials suspected of containing asbestos. All bulk samples were collected in accordance with EPA and OSHA guidelines. Samples were taken at various locations representative of homogeneous materials identified throughout each segment of the building.

Lead paint chip samples were collected and analyzed in accordance with EPA and OSHA guidelines. Samples were taken at various locations representative of coatings and conditions identified throughout each segment of the building.

Materials Testing & Inspection (MTI) in Boise, Idaho was the laboratory retained by DPW for PLM bulk sample analysis of samples collected during the inspection. The laboratory is AIHA (American Industrial Hygiene Association) accredited and is a successful participant in AIHA PAT Round Robin Program (Laboratory No. 101571) for quality assurance in proficiency of bulk asbestos identification. All bulk samples collected during the inspection were submitted to MTI for PLM analysis.

All lead paint samples collected during the inspection were submitted to International Asbestos Testing Laboratory (IATL) in Laurel, New Jersey for analysis. The laboratory is accredited and is a successful participant in the NLLAP (National Lead Laboratory Accreditation Program) NYSDOH – ELAP No. 11021.

Samples were randomly chosen to be representative of each homogenous material. However, URS makes no representation, warranty, nor guarantee that the analytical results reported by the laboratory are representative of those conditions existing throughout the homogeneous area, or that material other than or in different proportions to those indicated may exist.

Additionally, all URS Professional Engineer reviews of this document are limited to the project information and data presented in this report; therefore, no representation, warranty, or guarantee is implied or expressed of the site conditions from the URS Professional Engineer review.

3.2 Regulations

Building owners are governed by a variety of federal, state, and local regulations, which influence the way they must deal with ACM and/or lead in their facilities. Some of these regulations, particularly at the state and local level, change frequently. Building owners should contact their state and local government agencies, in addition to organizations such as the National Conference of State Legislatures (NCSL), the National Institute of Building Sciences (NIBS), or EPA environmental assistance centers for updated information on these requirements.

EPA and OSHA regulations require that employers address a number of items when employees may be exposed to asbestos fibers that could be generated during maintenance, removal, renovation, or demolition activities. These regulations are discussed briefly:

- EPA amended the worker protection rule (WPR at 40 CRF Part 763) on December 15, 2000 to adopt OSHA's standard to protect the health of all local and state government employees from the harmful effects of asbestos. The amended EPA worker protection rule extends coverage to all construction projects involving both friable and non-friable asbestos. EPA also expanded the scope of the WPR to all custodial operations that involve activities as basic as sweeping a floor or dusting a table.
- EPA NESHAP (40 CFR 61, November 20, 1990, Final Rule) promulgates emissions standards and reporting criteria for fugitive emissions of asbestos fibers. Additionally, it governs demolition and renovation projects in all facilities with notification requirements to EPA whether regulated quantities of ACM have been found or not.
- The NESHAP rule requires that owners conduct an asbestos inspection prior to demolition/renovation and have all friable regulated asbestos-containing materials (RACM) removed before demolition work begins. For renovation projects where RACM will be disturbed, the NESHAP rule may require appropriate work practices or procedures for the control of asbestos emissions. Any RACM (friable or non-friable which may become friable) poses a potential hazard that should be addressed.
- OSHA has specific requirements concerning worker protection and procedures. These include 29 CFR 1910.1001, General Industry, 29 CFR 1915.1001, Shipyard Industry, 29 CFR 1926.1101, Construction Industry (asbestos) Standard and 29 CFR 1926.62 OSHA Construction (lead) Standard.
- OSHA amended the General Industry Standard for asbestos (1910.1001). The previous existing asbestos standard for construction, 1926.58, was replaced with 1926.1101. A new standard, 1915.1001, was created for the shipyard industry. Analytical methods used by the OSHA laboratory were added as appendices. The Permissible Exposure Limit (PEL) was reduced by half to 0.1 f/cc TWA. OSHA presumes certain materials in pre-1981 buildings asbestos-containing materials (PACM) until sample verification of the materials asbestos content is made by an AHERA accredited building inspector.

3.3 EPA and OSHA Recommendations for ACM and Lead-Based Paint O&M Plans

Generally, the EPA and OSHA recommend that ACM, PACM and lead-based paint (coatings) be managed in place and that an O&M plan be developed considering the following items:

- ACM is defined as any material, which contains greater than 1 percent asbestos (>1%). This means that any material, which contains 1% or less asbestos, is considered a non-regulated ACM.
- All non-friable materials which are positive for asbestos (>1%) which may be subjected to sanding, grinding, cutting, drilling, and/or abrading are categorized by EPA under NESHAP as either Category I or Category II non-friable RACM.

- Lead-based paint is identified as paint containing 0.5% lead by weight under EPA/HUD Guidelines. However, OSHA has no such limits and regulates work exposure based on airborne concentration of lead within the work space and/or by the type of work or activity that may expose the worker above the action level or permissible exposure limit (PEL).
- EPA and OSHA recommend that a proactive, in place asbestos and/or lead-based paint operations and maintenance (O&M) program be implemented whenever ACM and/or lead-containing paint is discovered. In order to prevent significant public exposure to airborne asbestos fibers, EPA requires that building owners remove ACM and/or lead-based paint prior to building demolition or building renovation in which the existing conditions of the ACM and/or lead-based paint may pose an imminent threat to public health.
- An EPA accredited asbestos management planner and/or competent person should be utilized when developing an O&M program.
- EPA and OSHA recommend that building owners make available all written elements of the O&M program to the building O&M staff, as well as to tenants and other building occupants. Facility owners are also encouraged to consult with legal counsel concerning appropriate record keeping strategies as a standard part of their O&M programs.
- Building owners should inform maintenance workers, occupants, and tenants about the location and physical condition of the ACM, PACM and/or lead-based paint that they might disturb, and stress the need to avoid disturbing the material. Occupants should be notified for two reasons: (1) building occupants should be informed of any potential hazard in their vicinity; (2) informed persons are less likely to disturb the material and cause fibers and/or lead to be released.
- Facility owners should control access to the areas where the materials are located, mark materials with appropriate warning labels where applicable, and repair damaged materials as soon as possible (OSHA, 29 CFR 1910.1001 (j) Communication of Hazards to Employees).

3.4 URS Recommendations

The asbestos-containing materials found within the Office and Hatchery Buildings, the Main House and the Netters House are in fair-to-good condition (less than 10% damage or non-friable) and can be managed in place. Place the asbestos-containing materials in an operation and maintenance program and maintain in-place until the materials can be removed and disposed of properly.

The lead-containing paint found on the interiors of the Office Building, Office Garage, West Garage, Shop/Freezer Building, Summer Quarters and the Hatchery Building are in good condition (stable, <10% damage) and can be managed in place. Place the lead-containing paint found on the interior of these buildings in an operation and maintenance program and maintain in-place until the material can be removed and disposed of properly.

However, the lead-containing paint present on the exteriors of the West Garage, Hatchery Building, Shop/Freezer Building, and the Main House is in fair-to-poor condition (unstable, >10% to <25% flaking or damage). In addition the majority of the exterior paint found on the Summer Quarters and East Garage are in poor condition (extremely unstable >25% damage). A substantial amount of the paint is coming loose and peeling (flaking) off of these buildings. The flaking paint needs to be stabilized and cleaned up as soon as possible, and the associated waste disposed of properly at an approved landfill. Once the damaged and flaking exterior paint has been stabilized place the remaining lead-containing paint in an operation and maintenance program and maintain in-place until the material can be removed and disposed of properly

URS makes the following general recommendations for the asbestos-containing materials and lead-containing paints identified by the survey:

- Control access to the asbestos-containing materials and lead-containing paint throughout building, ensuring that the materials are not disturbed and are not subjected to sanding, grinding, cutting, drilling, and/or abrading.
- Develop a plan for managing in place and controlling access to, disturbance of, and/or damage to the asbestos-containing materials and lead-containing paint identified within the building.
- Routinely alert all state employees, applicable visitors, and outside contractor personnel of the presence of asbestos-containing materials and lead-containing paint or coating within the building and/or work areas.
- At the time of removal or demolition, implement an asbestos abatement program as required under NESHAP. An asbestos abatement procedure should be developed that will ensure worker protection per 29 CFR 1926.1101 OSHA construction standard and in compliance with EPA regulations regarding friable ACM and Category I and Category II non-friable RACM that may be subjected to sanding, grinding, cutting, drilling, or abrading.
- Prior to removal or demolition, implement a lead paint awareness program as required under OSHA. A lead hazard awareness and handling procedure should be developed that will ensure worker protection per 29 CFR 1926.62 (lead) OSHA construction standard and in compliance with EPA regulations regarding lead-containing materials that may be subjected to sanding, grinding, cutting, drilling, or abrading.

3.4.1 Permits and Notifications

Prior to demolition and/or renovation of the building, the contractor will need to provide proof satisfactory to the Owner or his Representative that all necessary permits have been secured in conjunction with demolition, removal, hauling, and disposal of the construction debris and provide timely notification of such actions, as may be required by federal, state, regional, and local authorities. Send written notification to the Regional Office of the United States Environmental Protection Agency (EPA), as required by 40 CFR Part 61, Subpart M (NESHAPS), 10 working days prior to commencement of the work.

URS

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