

APPENDIX I-8
Asbestos Report



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ASBESTOS REPORT

PRE-DEMOLITION/RENOVATION SURVEY & EVALUATION

DATE: March 12, 2014

PROJECT: Former General Mills Plant
790 Derr Street
Vallejo, California

PROJECT NO.: 104-AA14

REQUESTED BY: Vortex
Vallejo Marine Terminal
Livingston Street Pier
Oakland, CA 94606

ProTech Consulting & Engineering, Inc. performed a building survey to identify asbestos-containing materials (ACM). The survey was conducted in an effort to comply with pre-demolition regulatory requirements.

Environmental consulting services were performed by ProTech's team of licensed and accredited inspectors as follows:

CONSULTANT	DISCIPLINE	ISSUING AGENCY	CERTIFICATION NO.
Glen Koutz	Asbestos	Cal OSHA	92-0019
Ron Mason	Asbestos	Cal OSHA	96-1903
Emanuel Dounias	Asbestos	Cal OSHA	00-2766

SERVICES REQUESTED

Asbestos Survey

Consulting services were limited by the client to the following scope of services:

- Inspect the site to identify, inventory, and catalog visibly accessible suspect asbestos-containing materials (ACM);
- Collect representative samples of suspect ACM for laboratory analysis;
- Process and submit suspect ACM samples for laboratory analysis by standard polarized light microscopy (PLM) to determine asbestos content;
- Assess the friability and abatement classification of identified ACM;

- Identify the approximate location of each ACM;
- Make general recommendations as appropriate.

ProTech is only responsible for the specific scope of work as stated. No other services are intended or implied.

Survey Limitations

Scope of work limitations were established by the Client to include items of interest and concern to the Client. ProTech’s consulting services were limited as follows:

TYPE OF LIMITATION	DETAILS
Roof Patching	ProTech does not provide expert roof patching services. We strongly urge the Client to hire a licensed roofing contractor to patch and repair our sample locations. ProTech is not responsible for possible future roof leaks.
Services limited to	<ul style="list-style-type: none"> • Grain Silo Building • Mill Building • Bulk-house Building • Warehouse Building • South out Buildings
Limiting conditions	Certain areas were physically inaccessible for complete inspection as follows: <ul style="list-style-type: none"> • Silo basement was flooded • Mill high voltage room was not accessible • Mill north out building was not accessible • Bulk-house - areas above the ground level were not accessible • Bulk-house – interior of transite building was not accessible • Interior of tanks/silo’s and mechanical systems was not accessible • Concrete loading building - areas above the ground level were not accessible • Concrete loading building – storage room not accessible

RESULTS

Asbestos-Containing Materials (ACM)

The following materials contain asbestos. **Asbestos types are abbreviated as follows:** Chr = Chrysotile; Amo = Amosite; Cro = Crocidolite; Tre = Tremolite; Act = Actinolite, ND = no asbestos detected.

MATERIAL DESCRIPTION	MATERIAL LOCATION(S)	SAMPLE NUMBERS	LAB RESULTS
Silo Building			
1. Gray mastic – roof	Roof over silos: <ul style="list-style-type: none"> • Hatch curb • Patching • Base flashing • Penetrations • Perimeter roof edge • Seam patch 	03	10% Chr
2. Black mastic – roof	Roof: <ul style="list-style-type: none"> • Penetrations • Pitch pans • Base flashing • Roof perimeter/edge 	08	10% Chr
3. Black/gray coating on corrugated metal roof overhangs (loading dock areas and rail canopy)	<ul style="list-style-type: none"> • Penthouse structure • Shed roofs over loading dock and RR tracks 	15	60% Chr

4.	Black sealant/caulk	Metal duct joints – interior duct system	30	5% Chr
5.	Gray/black mastic - roof	Roof: • Patch • Flashing	33	10% Chr
6.	White 9"x9" floor tile with black mastic	1 st floor office	40	2% Chr (Tile only, mastic is ND)
7.	Topping texture on drywall	1 st floor mezzanine office walls	45	2% Chr
8.	Gray mortar/sealant	Exterior wall – duct penetration sealant	57	2% Chr
9.	Caulk/sealant – duct joints	Exterior process ducting	58, 59, 60	5% Chr
10.	Gray 12"x12" floor tile with yellow mastic	Control out-building floor (stand alone building)	61	2% Chr
Mill Building				
1.	Black tar & membrane residual on concrete wall	3 rd floor mechanical room – east upper wall	41	50% Chr
2.	Gray corrugated pipe insulation	3 rd floor above north west offices	42	70% Chr
3.	White block pipe insulation – debris	2 nd floor: • Above west offices • Adjacent to west offices on floor (mechanical area)	43	10% Chr
4.	Fire pad – electrical unit	3 rd floor – dismantled electrical unit adjacent to west offices	44	70% Chr
5.	Beige 12"x12" floor tile with non-ACM yellow mastic	2 nd floor: • South offices • West offices	49	2% Chr
6.	Off-white 12"x12" floor tile (with pink accent tiles – manufactured pattern) with non-ACM yellow mastic	2 nd floor, north offices and lab area	51	2% Chr
7.	Red 9"x9" floor tile with non-ACM yellow mastic	1 st floor: • North west warehouse office/store room • North west corner office below carpet and beige 9"x9" floor tile	68	7% Chr
8.	Beige 9"x9" floor tile with non-ACM black mastic	1 st floor: • North west corner office storage room • North west corner office below carpet and over red 9"x9" floor tile	69	2% Chr
9.	Gary/silver coating – on corrugated metal	Shed roofs over loading dock and RR tracks	70, 71, 72*	20% Chr
10.	Black mastic – roof	Shed roof butt & joints	79	10% Chr
11.	Gray/black mastic – roof (some areas painted with silver paint)	Roof, Perimeter curbs	80, 81, 82	10% Chr
12.	Gray mastic – roof	Roofs: • Curb seam corners • Patching • Flashing • Penetrations • Seams	83*, 84	10% Chr
13.	Black/gray mastic – roof	Roof pitch pans	85	10% Chr
15.	Gray mastic – roof	Roofs: • Perimeter flashing • Patching • Flashing • Penetrations • Seams	87	10% Chr
16.	Black/gray mastic – wall penetration	8 th level roof penthouse wall duct penetration sealant	88	10% Chr
Bulk-House Building				
1.	Gray corrugated cement panels (Transite)	Exterior walls and roof	01	20% Chr
2.	Gray sheet cement panels (Transite)	Interior walls – attached north shed	02	20% Chr

3.	Black/gray mastic/sealant – wall	Exterior wall pipe penetration	07	10% Chr
4.	Gray mastic – roof	Roof butt seam mastic on concrete building & CMU shed	10	10% Chr
Warehouse/Loading Building				
1	Mastic – roof	Roof: • Penetrations • Base flashing	17*, 18	10% Chr

* No asbestos detected in this sample

<i>Less Than 1% Asbestos Materials</i>				
The following materials have been confirmed to contain <1% by PLM point-count analysis (or other).				
MATERIAL DESCRIPTION	MATERIAL LOCATION(S)	SAMPLE NUMBERS	LAB RESULTS	
Silo Building				
1.	Drywall, joint tape and joint compound	1 st floor mezzanine office walls	44	<1% Chr (<1% by composite)

Confirmation of <1% PLM Results:

Materials (listed above) reported as <1% asbestos have NOT been subjected to confirmational analysis (by PLM point-count or other) analysis to confirm. Confirmational analysis is required to handle/treat these materials as <1% asbestos. Confirmation is required because the standard PLM analysis is not sensitive enough to accurately determine asbestos content at or below 1%.

In certain situations, there may be an economic advantage to confirming that a material contains less than 1% asbestos. ProTech will consult with the client and at client's request, will evaluate the benefits and costs associated with confirmation sampling.

<i>Non-Asbestos Materials</i>				
No asbestos was found in the following materials.				
MATERIAL DESCRIPTION	MATERIAL LOCATION(S)	SAMPLE NUMBERS	LAB RESULTS	
Silo Building				
1.	Black build-up roof membrane	Roof field over silos	01, 02	No Asbestos Detected (ND)
2.	Gray elastomeric coating – roof	• Silo roofs • Upper roof level	04, 05	ND
3.	Gray concrete roof deck	Roof deck below roof membrane	06, 07	ND
4.	Gray exterior stucco	Siding	09	ND
5.	Gray window putty	Metal windows – levels 1-4	12, 13, 14	ND
6.	Gray coating on walls	Interior walls	17, 18, 19, 20, 21	ND
7.	Tan patch – sealant	7 th floor metal duct patch	22	ND
8.	Gray caulk	7 th floor duct joint sealant	23, 24	ND
9.	Gray ceiling patch	7 th floor concrete penetration patch	25	ND
10.	Gray window putty	Metal windows – levels 1-4	26, 27, 28	ND
11.	Tan sealant/caulk	Metal duct joints	29	ND
12.	Gray concrete	Concrete round vertical tubes	31	ND
13.	Gray cap sheet roof membrane	Loading dock canopy/roof	32	ND
14.	Gray light weight concrete deck	Bridge decks (two levels)	34, 35	ND
15.	Gray patch compound	Wall pipe penetration patch	36	ND
16.	White patch compound	Wall pipe penetration patch	37	ND
17.	Mortar – below ceramic	1 st floor: • Break room • Restrooms	38	ND
18.	Gray concrete	Concrete round vertical tubes	39	ND
19.	Gray plaster wall	1 st floor • Office • Restroom	41, 42	ND

20.	Mastic – wall panel	1 st floor restroom, mastic below fiberglass wall panel	43	ND
21.	Exterior stucco	Exterior siding on the north end of the building (limited use)	46, 47, 48	ND
22.	Concrete walls & coating	Exterior wall/silo structures	49, 50, 51	ND
23.	Mortar/sealant – base cove	Exterior building base/perimeter	52, 52, 54	ND
24.	White caulk/sealant – silo	Silo concrete crack sealant	55, 56	ND
25.	White leveling compound – floor	Control building floor	62	ND
26.	Gray roof membrane	Control building roof	63	ND
Mill Building				
1.	Gray floor coating	Throughout floors 2 through 8	01, 02, 03, 04, 05	ND
2.	Wall/ceiling coating/texture	Throughout	06, 06, 08, 09, 10, 11, 12	ND
3.	Plaster (stucco-like) walls	Stairwell, elevator shaft, lower perimeter wall sections, partitions, etc.	13, 14, 15, 16, 17, 18, 19	ND
4.	Gray mortar - windows	Window rough openings	20, 21, 22, 23, 24	ND
5.	White mortar – glass block windows	Block mortar	25, 26, 27	ND
6.	Gray/black coating – stairs	Stairs and landings	28, 29, 30	ND
7.	Black vapor barrier – floor	4 th floor – floor vapor barrier	31, 32, 33	ND
8.	White 12”x12” floor tile (clear mastic – self adhesive)	4 th floor control booth	34	ND
9.	Gray concrete coating	Vertical shaft (limited access)	35	ND
10.	White 2’x4’ ceiling tile	3 rd floor break room	36	ND
11.	Mortar – below ceramic	3 rd floor ceramic floor tile in break room and restroom	37	ND
12.	Drywall, joint tape and joint compound	3 rd floor restroom walls	38	ND
13.	Topping texture on drywall	3 rd floor restroom walls	39	ND
14.	White 1’x1’ ceiling tile with yellow mastic	3 rd floor restroom ceiling	40	ND
15.	paper wrap – electrical unit	3 rd floor – dismantled electrical unit adjacent to west offices	45	ND
16.	White 1’x1’ ceiling tile	2 nd floor Throughout north offices, south office and restrooms	46	ND
17.	Mortar – below ceramic	2 nd floor ceramic floor tile: • Restrooms • Locker rooms • Decon/wash station • Break room	47, 48	ND
18.	Gray 12”x12” floor tile with yellow mastic	2 nd floor, west elevated office	50	ND
19.	Blue 12”x12” floor tile with yellow mastic	2 nd floor, south mezzanine office	52	ND
20.	White drywall, joint tape and joint compound - walls	2 nd floor: • North office • Restrooms below fiberglass wall panels • Locker rooms below fiberglass wall panels	53, 54, 55	ND
21.	White sheetrock topping texture – walls	2 nd floor: • North office • Restrooms below fiberglass wall panels • Locker rooms below fiberglass wall panels	56, 57, 58	ND

22.	Tan mastic – below vinyl wall base	2 nd floor offices	59	ND
23.	White 2’x2’ ceiling tile	2 nd floor south east offices	60	ND
24.	Yellow mastic – below fiberglass wall panels	2 nd floor restrooms & locker rooms	61	ND
25.	Gray mortar/cement – pipe penetrations	Walls & ceiling penetrations	62, 63, 64	ND
26.	Mortar – below ceramic over residual black mastic	1 st floor break room	65	ND
27.	Black floor coating	1 st floor - throughout	66, 67	ND
28.	Exterior coatings – on concrete	Exterior coatings/paint	73, 74, 75	ND
29.	Cap-sheet roof membrane	Roof field: • 3rd floor roof level • Part of 8 th & 9 th floor roof levels	76, 77, 78	ND
30.	Black build-up roof membrane	Roofs: • 8 th floor roof • Part of 9 th floor roof • North out building roof • Electrical room roof	86	ND
31.	Gray stucco	• Exterior siding electrical room • 8 th roof level elevator penthouse • Limited areas	89, 90, 91	ND
32.	Window putty	1 st floor, north west corner office	92	ND
Bulk-House Building				
1.	Beige coating	On exterior concrete	03, 04, 05	ND
2.	Gray mortar/patch – wall	Exterior wall pipe penetration	06	ND
3.	Gray cap sheet membrane - roof	Roof field on concrete building & CMU shed	08	ND
4.	Gray mastic – roof	Roof field seam mastic on concrete building & CMU shed	09	ND
5.	White wall coating	Interior concrete walls – concrete building	11, 12	ND
Warehouse/Loading Building				
1.	Gray floor coating	South warehouse floor	01, 02	ND
2.	Gray light weight concrete deck	Bridge penthouse deck	03, 04	ND
3.	Silver/black coating on corrugated metal	Corrugated metal bridge structure	05, 06	ND
4.	White 1’x1’ ceiling tile with yellow mastic	• 1 st floor lab • Mezzanine restroom	07	ND
5.	Gray wall patch	CMU partition wall	08	ND
6.	Wall coating	Exterior wall	09, 10	ND
7.	Gray wall patch	Concrete exterior wall	11	ND
8.	Mortar – below ceramic floor tile	1 st floor lab floor	12	ND
9.	Yellow mastic below wall panel	Mezzanine restroom	13	ND
10.	Gray plaster wall	1 st floor lab – observed at window	14	ND
11.	Tar and gravel roof membrane	Roof field	15, 16	ND
12.	Patch membrane – roof	South end around penthouse	19	ND
13.	Tan mortar/sealant building base	Concrete loading building – exterior sealant	20	ND
14.	Black/gray composition shingle roof	Warehouse entry shed roof	21	ND
15.	Gray membrane – roof	Concrete loading building – roof	22	ND
16.	Gray membrane/sealant - roof	Concrete loading building – roof joint	23	ND
17.	Drywall – wall below fiberglass panel (no tape or Joint compound observed)	Mezzanine restroom	24	ND
South Out-Buildings (south side of Mill Bldg.)				
No suspect asbestos-containing materials were identified or sampled in the following structures:				
1. Shop: Metal walls and ceilings, structural steel frame, foam insulated walls, concrete slab				
2. Shed: Metal walls and ceilings, structural steel frame, concrete slab				
3. CMU Storage Building: CMU walls, metal, wood joists, concrete slab				

ASBESTOS ASSESSMENT

MATERIAL DESCRIPTION	ACM TYPE	REGULATORY ASSESSMENT		APPROX. QUANTITY
		CAL OSHA	EPA/AQMD	
Silo Building				
1. Gray & black mastic – all roof levels	Misc.	Class II Abatement	Non-friable	350 sq ft
2. Black/gray coating on corrugated metal roof overhangs	Misc.	Class II Abatement	Non-friable	5,280 sq ft
3. Black sealant/caulk - interior metal ducts joints	Misc.	Class II Abatement	Non-friable	<100 sq ft
4. White 9"x9" floor tile with black mastic	Misc.	Class II Abatement	Non-friable	200 sq ft
6. Topping texture (2%) on drywall (<1% as a composite)	Misc.	Class II Abatement	RACM	170 sq ft
7. Gray mortar/sealant	Misc.	Class II Abatement	Non-friable	<50 sq ft
8. Caulk/sealant – exterior metal duct joints	Misc.	Class II Abatement	Non-friable	<50 sq ft
9. Gray 12"x12" floor tile with yellow mastic-detached control/out-building	Misc.	Class II Abatement	Non-friable	108 sq ft
Mill Building				
1. Black tar & membrane residual on concrete wall	Misc.	Class II Abatement	Non-friable	40 sq ft
2. Gray corrugated pipe insulation – 2 nd floor above NW offices	TSI	Class I Abatement	RACM	70 ln ft
3. White block pipe insulation & debris - 2 nd floor above & adjacent to NW offices	TSI	Class I Abatement	RACM	50 ln ft
4. Fire pad – electrical unit - 2 nd floor adjacent to NW offices	TSI	Class I Abatement	RACM	5 sq ft
5. Beige 12"x12" floor tile with yellow non-ACM mastic – 2 nd floor south office & west offices	Misc.	Class II Abatement	Non-friable	900 sq ft
6. Off-white 12"x12" floor tile (with pink accent tiles, manufactured pattern) with yellow mastic – 2 nd floor north office/lab area	Misc.	Class II Abatement	Non-friable	1,400 sq ft
7. Red 9"x9" floor tile with yellow mastic – 1 st floor nw offices	Misc.	Class II Abatement	Non-friable	400 sq ft
8. Beige 9"x9" floor tile with black mastic – 1 st floor nw offices	Misc.	Class II Abatement	Non-friable	250 sq ft
9. Gray/silver coating – on corrugated metal roof overhangs (loading dock areas and rail canopy)	Misc.	Class II Abatement	Non-friable	12,000 sq ft
10. Black, gray and silver mastic – all roof levels	Misc.	Class II Abatement	Non-friable	700 sq ft
11. Black/gray mastic – wall penetration 8 th roof level	Misc.	Class II Abatement	Non-friable	<20 sq ft
Bulk-House Building				
1. Gray corrugated cement panels (Transite)	Misc.	Class II Abatement	Non-friable	12,000 sq ft
2. Gray sheet cement panels (Transite)	Misc.	Class II Abatement	Non-friable	200 sq ft
3. Black/gray mastic/sealant – exterior wall/pipe penetrations	Misc.	Class II Abatement	Non-friable	<50 sq ft
4. Gray roof mastic – Roof butt seam mastic on concrete building & CMU shed	Misc.	Class II Abatement	Non-friable	<20 sq ft

Warehouse/Loading Building					
1.	Mastic – roof penetrations and base flashing	Misc.	Class II Abatement	Non-friable	100 sq ft

REGULATORY NOTES

Cal OSHA (DOSHS)

Asbestos-Containing Material (ACM): A material is an asbestos containing material (ACM) when the sample aggregate or any one of its layers (analyzed individually) contains greater than 1% asbestos. Cal OSHA does **not** allow composite analysis (mixing layers of materials together).

Less than 1% Asbestos: Materials containing less than 1% asbestos are not regulated by most governmental agencies. However, Cal OSHA is not one of those agencies. The Cal OSHA asbestos standard must be followed for work involving materials that contain a concentration of asbestos as low as **0.1%**.

If a material can be shown to contain less than 1% asbestos by PLM point count (or other approved method), it can be treated as an asbestos-containing construction material (ACCM). ACCM is a term Cal OSHA uses to describe materials containing **less than 1%** (but greater than 0.1%) asbestos. In certain situations, there may be some economic advantages to making this characterization. The decision to do so is evaluated on a case-by-case basis at the client’s request.

Less than 0.1% Asbestos: If a material can be shown to contain less than **0.1%** asbestos by an approved method, it can be treated as a non-asbestos material. In certain situations, there may be some economic advantages to making this characterization. The decision to do so is evaluated on a case-by-case basis at the client’s request.

Class I Asbestos Work: Cal OSHA prescribes specific work practices involving the removal of asbestos-containing insulation and surfacing (i.e. sprayed-on) materials.

Class II Asbestos Work: Cal OSHA prescribes specific work practices involving the removal of ACM which is not insulation or surfacing material. This includes, but is not limited to, the removal of asbestos-containing wallboard, floor tile and sheeting, roofing, cement products, and construction mastics.

EPA/AQMD

Asbestos-Containing Material (ACM): Any building material which contains commercial asbestos in an amount greater than 1%.

Less than 1% Asbestos: Materials that are found to contain less than 1% asbestos by standard polarized light microscopy (PLM) may be considered non-asbestos (by EPA/AQMD) if confirmation analysis is performed. To be treated as a non-asbestos material, the EPA and AQMD require analytical verification by PLM Point Count (or better). This verification is required because the standard PLM analysis is not sensitive enough to accurately determine asbestos content at or below

1%. In certain situations, there may be some cost advantages to making this characterization. The decision to do so is evaluated on a case-by-case basis at the client’s request.

Regulated Asbestos-Containing Material (RACM): RACM includes friable (easily crumbled) ACM, or Category I nonfriable ACM that has or will become friable or that has been subjected to sanding, drilling, grinding, cutting, or abrading, or Category II nonfriable ACM that may become or has become crumbled, pulverized, or reduced to powder.

Friable: Materials that can be crumbled, pulverized, or reduced to powder, when dry, by hand pressure.

Non-Friable: Materials that **cannot** be easily crumbled, pulverized, or reduced to powder, when dry, by hand pressure. Non-friable materials are categorized by EPA/AQMD as follows:

- Category I Nonfriable ACM: Asbestos-containing packings, gaskets, resilient floor coverings, mastics and asphalt roofing products.
- Category II Nonfriable ACM: Asbestos-containing material, excluding Category I nonfriable asbestos-containing material, that, when dry, and in its present form, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

CONCLUSIONS & RECOMMENDATIONS

Asbestos Removal

ACM should be removed prior to activity that may disturb it. Prior to ACM disturbance/removal, the following should be performed:

Task		Task Description	Fee
1.	Prepare Project Specification	Prepare a written scope of work & instructions to bidders.	\$1,200.00
2.	Bid Review and Contractor Selection	Select qualified contractors (prospective bidders), review bids and award contract.	\$680.00
3.	Project Monitoring & Oversight	Monitoring asbestos abatement work and document contractor compliance.	Pricing upon request
4.	Project Clearance	Perform final inspection and collect air samples to certify work area clearance.	Pricing upon request

Excluded Items

Items or areas excluded from this inspection should be inspected and sampled if future activities will impact the excluded items/areas as follows:

- Silo basement was flooded
- Mill high voltage room was not accessible
- Mill north out building was not accessible
- Bulk-house - areas above the ground level were not accessible
- Bulk-house – interior of transite building was not accessible

- Interior of tanks/silo's and mechanical systems was not accessible
- Concrete loading building - areas above the ground level were not accessible
- Concrete loading building – storage room not accessible

SURVEY & REPORT LIMITATIONS

- Scope of work limitations were established by the Client to include items of interest and concern to the Client. ProTech is only responsible for the specific scope of work agreed to. No other services are intended or implied.
- This asbestos inspection report has been prepared by ProTech for the exclusive use of ProTech and its client, and not for use by any other party. The investigation and sampling plan discussed in this report may not be appropriate for uses beyond its intended purpose and stated scope. Any use by a third party of any of the information contained in this report shall be at their own risk and shall constitute a release and an agreement to defend and indemnify ProTech from any and all liability in connection therewith whether arising out of ProTech's negligence or otherwise.
- The information contained in this report is limited to those areas and suspect asbestos materials found to be visually accessible through reasonable means. No demolition of building materials was conducted to determine the presence of asbestos in wall cavities, chases or other inaccessible areas. ProTech cannot warrant that this building does not contain ACM in locations that were inaccessible, hidden or unknown. However, a good faith effort was made to conduct a comprehensive survey within the limitations of the stated scope of services. This report presents a complete record of all significant findings, evaluations and sample results.
- ProTech cannot warrant that this building does not contain ACM in locations other than those noted in this report. If suspect asbestos materials are discovered during future repairs, demolition or renovation operations, all general work activities which could impact the discovered suspect ACM should cease until confirmation sampling and/or asbestos abatement options can be assessed.
- ProTech's evaluations do not attempt to forecast or anticipate planned or unforeseen events which may negatively impact ACM condition. All conclusions and recommendations presented herein are based on visible conditions present at the time of inspection. Changes in material condition due to deterioration, unforeseen accidents, or planned events such as renovation or demolition may render the recommendations and conclusions presented in this report obsolete.
- All quantification of ACM is approximate and should not be relied upon for bidding purposes. This report is not represented as, nor intended to be, an asbestos-abatement scope of work or project specification.
- ProTech's work was limited to an asbestos survey. The potential for environmental conditions other than the presence of asbestos is possible. Other potential hazards that could potentially impact the project include but are not limited to:
 - Lead-based paint
 - Mold growth
 - PCB-containing equipment
 - Mercury containing equipment
 - Chemical supplies

ProTech will provide a fee proposal for additional inspection services at the client's request

- Reasonable efforts were made to examine below carpeted areas and resilient floor coverings to determine and quantify the presence of suspect asbestos materials. ProTech accepts no liability for additional materials or under-reporting of asbestos materials which exist below other floor coverings.
- Glass fiber insulated mechanical systems were inspected as completely as possibly without destroying the integrity of the glass fiber insulation. The condition and presence or absence of asbestos associated with mechanical systems is assumed to be consistent with those areas exposed and examined during our inspection. However, ProTech does not guarantee that this is the case.

SURVEY APPROACH

Inspection & Sample Collection

A survey of the subject site was conducted to identify and catalog visibly accessible suspect asbestos materials and to develop a sampling strategy for characterizing ACM. Following the initial inspection, samples were collected of suspect asbestos materials from each homogenous sample area. Samples were collected by misting small sample areas with water, then cutting or scraping the sample from the substrate with an appropriate sampling tool. Whenever possible, samples were collected from areas previously damaged or deteriorating. No building systems, components, or structures were demolished to obtain samples of potentially hidden ACM.

Each suspect bulk sample was sealed in its own Zip-lock plastic container and labeled with a unique identification number. Sampling tools were individually cleaned before and after each sample was collected to avoid sample cross contamination. Decontamination was accomplished using single-use, pre-moistened cloths.

Sample information was recorded on ProTech's chain-of-custody form. This form accompanied the samples to a laboratory possessing accreditation from the National Voluntary Laboratory Accreditation Program (NVLAP). Samples were submitted to Forensic Analytical Services, Inc. of Hayward, California.

Sample Analysis

Bulk sample analysis was conducted in accordance with the EPA interim method for determination of asbestos in bulk materials. Samples were first examined by a stereoscopic microscope for determination of homogeneity and preliminary evaluation of composition and presence of fibers. Fibers observed during this examination were then mounted in various refractive index oils and examined in polarized light. During this examination, all minerals and/or man-made materials were identified and the percentages of each were estimated and/or counted.

Evaluation of Asbestos-Containing Materials

In evaluating each asbestos material, the adhesion of the asbestos material to the underlying substrate, deterioration, and damage from vandalism or any other cause was assessed. Evidence of debris on horizontal surfaces, hanging material, dislodged chunks, scraping, indentations, cracking, etc. would be indicators of poor material condition.

Accidental or deliberate physical contact with asbestos materials can result in damage. Inspectors looked for any evidence that asbestos-containing materials had been disturbed. Indicators such as: finger marks in the material, graffiti, pieces dislodged or missing, scraping marks from movable equipment, or furniture, or an

accumulation of suspect asbestos dust or debris on floors, shelves, or other horizontal surfaces indicate poor material condition.

Asbestos-containing materials may deteriorate as a result of either the quality of the installation or environmental factors which affect the cohesive strength of the asbestos-containing material or the strength of the adhesion to the substrate. Deterioration can result in an accumulation of dust on the surface of the asbestos-containing material, delamination of the material, or an adhesive failure of the material where it pulls away from the substrate and either hangs loosely or falls to the floor and exposes the substrate. Inspectors touch the asbestos-containing material to determine if dust is released when the material is lightly brushed or rubbed.

Glen Koutz

Glen Koutz

Cal-OSHA Certified Asbestos Consultant

Certificate 92-0019



Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Protech Consulting & Engineers Inc.
Project Manager

1208 Main St.
Redwood City, CA 94063

Client ID: 1454
Report Number: B187722
Date Received: 02/20/14
Date Analyzed: 02/24/14
Date Printed: 02/24/14
First Reported: 02/24/14

Job ID/Site: 104-AA14 - Former General Mills Plant, 790 Derr, Vallejo, California, Bulk House Building (transite building)

Date(s) Collected:

FALI Job ID: 1454
Total Samples Submitted: 12
Total Samples Analyzed: 12

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
01	11484072						
Layer: Grey Semi-Fibrous Material		Chrysotile	20 %				
Total Composite Values of Fibrous Components:		Asbestos (20%)					
Cellulose (Trace)							
02	11484073						
Layer: Grey Semi-Fibrous Material		Chrysotile	20 %				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (20%)					
Cellulose (Trace)							
03	11484074						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
04	11484075						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
05	11484076						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
06	11484077						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
07	11484078						
Layer: Black Semi-Fibrous Tar		Chrysotile	10 %				
Total Composite Values of Fibrous Components:		Asbestos (10%)					
Cellulose (Trace)							

Client Name: Protech Consulting & Engineers Inc.

Report Number: B187722

Date Printed: 02/24/14

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
08	11484079						
Layer: Grey Roof Shingle			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (55 %)	Fibrous Glass (10 %)						
09	11484080						
Layer: Black Tar			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
10	11484081						
Layer: Black Semi-Fibrous Tar		Chrysotile	10 %				
Total Composite Values of Fibrous Components:		Asbestos (10%)					
Cellulose (Trace)							
11	11484082						
Layer: Beige Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
12	11484083						
Layer: Beige Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							



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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Consulting & Engineering

1208 MAIN STREET, REDWOOD CITY, CA 94063
 P: (650) 569-4020 • F: (650) 569-4023 • E: hazinspect@yahoo.com

Date: February 17, 2014

Project No.: 104-AA14

Project: Former General Mills Plant, 790 Derr, Vallejo, California

Location: Silo Building

Analysis: PLM

TAT: 48 Hr

Laboratory: FASI

PO No.: 0218-104-60

SAMPLE INFORMATION

Sample Description	Location of Homogeneous Area	Sample Nos.
1. Black build-up roof membrane	Roof field over silos	01, 02
2. Gray mastic – roof	Roof over silos: • Hatch curb • Patching • Base flashing • Penetrations • Seam patch	03
3. Gray elastomeric coating – roof	• Silo roofs • Upper roof level	04, 05
4. Gray concrete roof deck	Roof deck below roof membrane	06, 07
5. Black mastic – roof	Roof: • Penetrations • Pitch pans • Base flashing • Roof perimeter/edge	08
6. Gray exterior stucco	Siding	09 (10 & 11 not used)
7. Gray window putty	Metal windows – levels 1-4	12, 13, 14
8. Black/gray coating on corrugated metal	• Penthouse structure • Shed (overhang) roofs	15 (16 not used)
9. Gray coating on walls	Interior walls	17, 18, 19, 20, 21
10. Tan patch – sealant	7 th floor metal duct patch	22
11. Gray caulk	7 th floor duct joint sealant	23, 24
12. Gray ceiling patch	7 th floor concrete penetration patch	25
13. Gray window putty	Metal windows – levels 1-4	26, 27, 28
14. Tan sealant/caulk	Metal duct joints	29
15. Black sealant/caulk	Metal duct joints	30
16. Gray concrete	Concrete round vertical tubes	31
17. Gray cap sheet roof membrane	Loading dock canopy/roof	32
18. Gray/black mastic - roof	Roof: • Patch • Flashing	33
19. Gray light weight concrete deck	Bridge decks (two levels)	34, 35
20. Gray patch compound	Wall pipe penetration patch	36
21. White patch compound	Wall pipe penetration patch	37
22. Mortar – below ceramic	1 st floor: • Break room • Restrooms	38
23. Gray concrete	Concrete round vertical tubes	39
24. White 9"x9" floor tile with black mastic	1 st floor office	40
25. Gray plaster wall	1 st floor • Office • Restroom	41, 42
26. Mastic – wall panel	1 st floor restroom, mastic below fiberglass wall panel	43
27. Drywall, joint tape and joint compound	1 st floor mezzanine office walls	44



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28. Topping texture on drywall	1 st floor mezzanine office walls	45
29. Exterior stucco	Exterior siding on the north end of the building (limited use)	46, 47, 48
30. Concrete walls & coating	Exterior wall/silo structures	49, 50, 51
31. Mortar/sealant – base cove	Exterior building base/perimeter	52, 52, 54
32. White caulk/sealant – silo	Silo concrete crack sealant	55, 56
33. Gray mortar/sealant	Exterior wall – duct penetration sealant	57
34. Caulk/sealant – duct joints	Exterior process ducting	58, 59, 60
35. Gray 12"x12" floor tile with yellow mastic	Control building floor	61
36. White leveling compound – floor	Control building floor	62
37. Gray roof membrane	Control building roof	63

	Relinquished By	Date/Time	Received By	Date/Time
1.	<i>Jm G</i>	<i>1-20-14 1:00</i>	<i>[Signature]</i>	<i>2/20/14 1:00pm</i>
2.				
3.				



Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Protech Consulting & Engineers Inc.
Project Manager

1208 Main St.
Redwood City, CA 94063

Client ID: 1454
Report Number: B187723
Date Received: 02/20/14
Date Analyzed: 02/24/14
Date Printed: 02/24/14
First Reported: 02/24/14

Job ID/Site: 104-AA14 - Former General Mills Plant, 790 Derr, Vallejo, California, Silo Building

FALI Job ID: 1454
Total Samples Submitted: 60
Total Samples Analyzed: 60

Date(s) Collected:

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
01	11484084						
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (5 %) Fibrous Glass (45 %)							
Comment: Bulk complex sample.							
02	11484085						
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (5 %) Fibrous Glass (45 %)							
Comment: Bulk complex sample.							
03	11484086						
Layer: Grey Mastic		Chrysotile	10 %				
Total Composite Values of Fibrous Components:		Asbestos (10%)					
Cellulose (Trace)							
04	11484087						
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: Protech Consulting & Engineers Inc.

Report Number: B187723

Date Printed: 02/24/14

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
05	11484088						
Layer: Grey Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
06	11484089						
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
07	11484090						
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
08	11484091						
Layer: Black Semi-Fibrous Tar		Chrysotile	10 %				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (10%)					
09	11484092						
Layer: Grey Cementitious Material			ND				
Layer: Dark Grey Cementitious Material			ND				
Layer: White Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
12	11484093						
Layer: White Putty			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
13	11484094						
Layer: White Putty			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
14	11484095						
Layer: Grey Putty			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
15	11484096						
Layer: Grey Fibrous Material		Chrysotile	60 %				
Total Composite Values of Fibrous Components: Cellulose (35 %)		Asbestos (60%)					

Client Name: Protech Consulting & Engineers Inc.

Report Number: B187723

Date Printed: 02/24/14

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
17	11484097						
Layer: Grey Coating			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
18	11484098						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
19	11484099						
Layer: Grey Coating			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
20	11484100						
Layer: Grey Coating			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
21	11484101						
Layer: Grey Coating			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
22	11484102						
Layer: Tan Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
23	11484103						
Layer: Grey Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
24	11484104						
Layer: Grey Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
25	11484105						
Layer: White Cementitious Material			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
26	11484106						
Layer: Grey Putty			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					

Client Name: Protech Consulting & Engineers Inc.

Report Number: B187723

Date Printed: 02/24/14

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
27	11484107						
Layer: Grey Putty			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
28	11484108						
Layer: Grey Putty			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
29	11484109						
Layer: Tan Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
30	11484110						
Layer: Grey Non-Fibrous Material		Chrysotile	5 %				
Total Composite Values of Fibrous Components:		Asbestos (5%)					
Cellulose (Trace)							
31	11484111						
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
32	11484112						
Layer: White Roof Shingle			ND				
Layer: Black Felt			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (5 %) Fibrous Glass (45 %)							
33	11484113						
Layer: Black Mastic		Chrysotile	10 %				
Total Composite Values of Fibrous Components:		Asbestos (10%)					
Cellulose (Trace)							
34	11484114						
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
35	11484115						
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
36	11484116						
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: Protech Consulting & Engineers Inc.

Report Number: B187723

Date Printed: 02/24/14

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
37	11484117						
Layer: White Cementitious Material			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
38	11484118						
Layer: Grey Mortar			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
39	11484119						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
40	11484120						
Layer: White Tile		Chrysotile	2 %				
Layer: Black Mastic			ND				
Layer: Off-White Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (2%)					
41	11484121						
Layer: Grey Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
42	11484122						
Layer: Grey Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
43	11484123						
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
44	11484124						
Layer: White Drywall			ND				
Layer: White Joint Compound		Chrysotile	2 %				
Layer: White Tape			ND				
Layer: White Joint Compound		Chrysotile	2 %				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (10 %)		Asbestos (Trace)					

Client Name: Protech Consulting & Engineers Inc.

Report Number: B187723

Date Printed: 02/24/14

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
45	11484125						
Layer: White Texture		Chrysotile	2 %				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (2%)					
46	11484126						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
47	11484127						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
48	11484128						
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
49	11484129						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
50	11484130						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
51	11484131						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
52	11484132						
Layer: Grey Mortar			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
53	11484133						
Layer: Grey Mortar			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					

Client Name: Protech Consulting & Engineers Inc.

Report Number: B187723

Date Printed: 02/24/14

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
54	11484134						
Layer: Grey Mortar			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
55	11484135						
Layer: White Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
56	11484136						
Layer: White Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
57	11484137						
Layer: Grey Mortar		Chrysotile	2 %				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (2%)					
58	11484138						
Layer: Brown Non-Fibrous Material		Chrysotile	5 %				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (5%)					
59	11484139						
Layer: Brown Non-Fibrous Material		Chrysotile	5 %				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (5%)					
60	11484140						
Layer: Brown Non-Fibrous Material		Chrysotile	5 %				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (5%)					
61	11484141						
Layer: Grey Tile		Chrysotile	2 %				
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (2%)					
62	11484142						
Layer: White Non-Fibrous Material			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					

Client Name: Protech Consulting & Engineers Inc.

Report Number: B187723

Date Printed: 02/24/14

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
63	11484143						
Layer: Grey Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							



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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Date: February 17, 2014

Project No.: 104-AA14

Project: Former General Mills Plant, 790 Derr, Vallejo, California

Location: Mill Building

Analysis: PLM

TAT: 48 Hr

Laboratory: FASI

PO No.: 0218-104-92

SAMPLE INFORMATION

Sample Description	Location of Homogeneous Area	Sample Nos.
1. Gray floor coating	Throughout floors 2 through 8	01, 02, 03, 04, 05
2. Wall/ceiling coating/texture	Throughout	06, 06, 08, 09, 10, 11, 12
3. Plaster (stucco-like) walls	Stairwell, elevator shaft, lower perimeter wall sections, partitions, etc.	13, 14, 15, 16, 17, 18, 19
4. Gray mortar - windows	Window rough openings	20, 21, 22, 23, 24
5. White mortar - glass block windows	Block mortar	25, 26, 27
6. Gray/black coating - stairs	Stairs and lanings	28, 29, 30
7. Black vapor barrier - floor	4 th floor - floor vapor barrier	31, 32, 33
8. White 12"x12" floor tile (clear mastic - self adhesive)	4 th floor control booth	34
9. Gray concrete coating	Vertical shaft (limited access)	35
10. White 2'x4' ceiling tile	3 rd floor break room	36
11. Mortar - below ceramic	3 rd floor ceramic floor tile in break room and restroom	37
12. Drywall, joint tape and joint compound	3 rd floor restroom walls	38
13. Topping texture on drywall	3 rd floor restroom walls	39
14. White 1'x1' ceiling tile with yellow mastic	3 rd floor restroom ceiling	40
15. Black tar & membrane residual on concrete wall	3 rd floor mechanical room - east upper wall	41
16. Gray corrugated pipe insulation	3 rd floor above west mezzanine offices	42
17. White block pipe insulation - debris	3 rd floor: <ul style="list-style-type: none"> • Above west offices • Adjacent to west offices on floor (mechanical area) 	43
18. Fire pad - electrical unit	3 rd floor - dismantled electrical unit adjacent to west offices	44
19. paper wrap - electrical unit	3 rd floor - dismantled electrical unit adjacent to west offices	45
20. White 1'x1' ceiling tile	2 nd floor Throughout north offices, south office and restrooms	46
21. Mortar - below ceramic	2 nd floor ceramic floor tile: <ul style="list-style-type: none"> • Restrooms • Locker rooms • Decon/wash station • Break room 	47, 48



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22. Beige 12"x12" floor tile with yellow mastic	2 nd floor: • South offices • West offices	49
23. Gray 12"x12" floor tile with yellow mastic	2 nd floor, west elevated office	50
24. Off-white 12"x12" floor tile (with pink accent tiles – manufactured pattern) with yellow mastic	2 nd floor, north offices and lab area	51
25. Blue 12"x12" floor tile with yellow mastic	2 nd floor, south mezzanine office	52
26. White drywall, joint tape and joint compound - walls	2 nd floor: • North office • Restrooms below fiberglass wall panels • Locker rooms below fiberglass wall panels	53, 54, 55
27. White sheetrock topping texture – walls	2 nd floor: • North office • Restrooms below fiberglass wall panels • Locker rooms below fiberglass wall panels	56, 57, 58
28. Tan mastic – below vinyl wall base	2 nd floor offices	59
29. White 2'x2' ceiling tile	2 nd floor south east offices	60
30. Yellow mastic – below fiberglass wall panels	2 nd floor restrooms & locker rooms	61
31. Gray mortar/cement – pipe penetrations	Walls & ceiling penetrations	62, 63, 64
32. Mortar – below ceramic over residual black mastic	1 st floor break room	65
33. Black floor coating	1 st floor - through	66, 67
34. Red 9"x9" floor tile with yellow mastic	1 st floor: • North west warehouse office/store room • North west corner office below carpet and beige 9"x9" floor tile	68
35. Beige 9"x9" floor tile with black mastic	1 st floor: • North west corner office storage room • North west corner office below carpet and over red 9"x9" floor tile	69
36. Gary/silver coating – on corrugated metal	Metal shed (overhang) roofs	70, 71, 72
37. Exterior coatings – on concrete	Exterior coatings/paint	73, 74, 75
38. Cap-sheet roof membrane	Roof field: • 3 rd floor roof level • Part of 8 th & 9 th floor roof levels	76, 77, 78
39. Black mastic – roof	Shed roof butt & joints	79
40. Gray/black mastic – roof (some areas painted with silver paint)	Roof, Perimeter curbs	80, 81, 82
41. Gray mastic – roof	Roofs: • Curbs seam corners • Patching • Flashing • Penetrations • Seams	83, 84
42. Black/gray mastic – roof	Roof pitch pans	85
43. Black build-up roof membrane	Roofs: • 8 th floor roof • Part of 9 th floor roof • North out building roof • Electrical room roof	86



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44. Gray mastic – roof	Roofs: • Perimeter flashing • Patching • Flashing • Penetrations • Seams	87
45. Black/gray mastic – wall penetration	8 th level roof penthouse wall duct penetration sealant	88
46. Gray stucco	• Exterior siding electrical room • 8 th roof level elevator penthouse • Limited areas	89, 90, 91
47. Window putty	1 st floor, north west corner office	92

	Relinquished By	Date/Time	Received By	Date/Time
1.	<i>[Signature]</i>	1/20/14 11:00	<i>[Signature]</i>	1/20/14 1:00pm
2.				
3.				



Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Protech Consulting & Engineers Inc.
Project Manager

1208 Main St.
Redwood City, CA 94063

Client ID: 1454
Report Number: B187728
Date Received: 02/20/14
Date Analyzed: 02/24/14
Date Printed: 02/24/14
First Reported: 02/24/14

Job ID/Site: 104-AA14 - Former General Mills Plant, 790 Derr, Vallejo, California, Mill Building

FALI Job ID: 1454
Total Samples Submitted: 92
Total Samples Analyzed: 92

Date(s) Collected:

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
01	11484167						
Layer: Grey Coating			ND				
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
02	11484168						
Layer: Grey Coating			ND				
Layer: Grey Cementitious Material			ND				
Layer: Tan Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
03	11484169						
Layer: Grey Coating			ND				
Layer: Grey Cementitious Material			ND				
Layer: Tan Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
04	11484170						
Layer: Grey Coating			ND				
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
05	11484171						
Layer: Grey Coating			ND				
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
06	11484172						
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: Protech Consulting & Engineers Inc.

Report Number: B187728

Date Printed: 02/24/14

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
07	11484173						
Layer: Off-White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
08	11484174						
Layer: Off-White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
09	11484175						
Layer: Grey Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
10	11484176						
Layer: Grey Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
11	11484177						
Layer: Off-White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
12	11484178						
Layer: Off-White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
13	11484179						
Layer: Grey Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
14	11484180						
Layer: Grey Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					

Client Name: Protech Consulting & Engineers Inc.

Report Number: B187728

Date Printed: 02/24/14

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
15	11484181						
Layer: Grey Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
16	11484182						
Layer: Grey Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
17	11484183						
Layer: Grey Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
18	11484184						
Layer: Grey Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
19	11484185						
Layer: Grey Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
20	11484186						
Layer: Grey Mortar			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
21	11484187						
Layer: Grey Mortar			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
22	11484188						
Layer: White Mortar			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					

Client Name: Protech Consulting & Engineers Inc.

Report Number: B187728

Date Printed: 02/24/14

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
23	11484189						
Layer: White Mortar			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
24	11484190						
Layer: White Mortar			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
25	11484191						
Layer: White Mortar			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
26	11484192						
Layer: White Mortar			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
27	11484193						
Layer: White Mortar			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
28	11484194						
Layer: Grey/Black Coating			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
29	11484195						
Layer: Grey/Black Coating			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
30	11484196						
Layer: Grey/Black Coating			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
31	11484197						
Layer: Black Felt			ND				
Total Composite Values of Fibrous Components: Cellulose (90 %)		Asbestos (ND)					
32	11484198						
Layer: Black Felt			ND				
Total Composite Values of Fibrous Components: Cellulose (90 %)		Asbestos (ND)					

Client Name: Protech Consulting & Engineers Inc.

Report Number: B187728

Date Printed: 02/24/14

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
33	11484199						
Layer: Black Felt			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (90 %)							
34	11484200						
Layer: White Tile			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
35	11484201						
Layer: Grey Coating			ND				
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
36	11484202						
Layer: Beige Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (35 %) Fibrous Glass (45 %)							
37	11484203						
Layer: White Mortar			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
38	11484204						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (10 %)							
39	11484205						
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
40	11484206						
Layer: Yellow Mastic			ND				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (95 %)							
41	11484207						
Layer: Black Tar			ND				
Layer: Black Felt		Chrysotile	50 %				
Total Composite Values of Fibrous Components:		Asbestos (40%)					
Cellulose (35 %)							

Client Name: Protech Consulting & Engineers Inc.

Report Number: B187728

Date Printed: 02/24/14

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
42	11484208						
Layer: Grey Fibrous Material		Chrysotile	70 %				
Layer: White Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (63%)					
Cellulose (30 %)							
43	11484209						
Layer: Off-White Semi-Fibrous Material		Chrysotile	10 %				
Total Composite Values of Fibrous Components:		Asbestos (10%)					
Cellulose (Trace)							
44	11484210						
Layer: White Fibrous Material		Chrysotile	70 %				
Total Composite Values of Fibrous Components:		Asbestos (70%)					
Cellulose (30 %)							
45	11484211						
Layer: White Fibrous Material			ND				
Layer: Yellow Adhesive			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Synthetic (75 %)							
46	11484212						
Layer: Yellow Mastic			ND				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (95 %)							
47	11484213						
Layer: Grey Mortar			ND				
Layer: Grey Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (5 %)							
48	11484214						
Layer: Grey Mortar			ND				
Layer: Yellow Adhesive			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
49	11484215						
Layer: Beige Tile		Chrysotile	2 %				
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
50	11484216						
Layer: Grey Tile			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: Protech Consulting & Engineers Inc.

Report Number: B187728

Date Printed: 02/24/14

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
51	11484217						
Layer: Off-White Tile		Chrysotile	2 %				
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
52	11484218						
Layer: Blue Tile			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
53	11484219						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Layer: White Tape			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (10 %)							
54	11484220						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Layer: White Tape			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (10 %)							
55	11484221						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Layer: White Tape			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (10 %)							
56	11484222						
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
57	11484223						
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: Protech Consulting & Engineers Inc.

Report Number: B187728

Date Printed: 02/24/14

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
58	11484224						
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
59	11484225						
Layer: Brown Mastic			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
60	11484226						
Layer: Beige Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (35 %) Fibrous Glass (45 %)		Asbestos (ND)					
61	11484227						
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
62	11484228						
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
63	11484229						
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
64	11484230						
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
65	11484231						
Layer: Grey Mortar			ND				
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
66	11484232						
Layer: Black Cementitious Tar			ND				
Layer: Brown Adhesive			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					

Client Name: Protech Consulting & Engineers Inc.

Report Number: B187728

Date Printed: 02/24/14

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
67	11484233						
Layer: Black Cementitious Tar			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
68	11484234						
Layer: Red-Brown Tile		Chrysotile	7 %				
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (7%)					
69	11484235						
Layer: Beige Tile		Chrysotile	2 %				
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (2%)					
70	11484236						
Layer: Grey Semi-Fibrous Material		Chrysotile	20 %				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (20%)					
71	11484237						
Layer: Grey Semi-Fibrous Material		Chrysotile	20 %				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (20%)					
72	11484238						
Layer: Black Tar			ND				
Layer: Silver Coating			ND				
Layer: White Coating			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
73	11484239						
Layer: White Coating			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
74	11484240						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					
75	11484241						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (ND)					

Client Name: Protech Consulting & Engineers Inc.

Report Number: B187728

Date Printed: 02/24/14

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
76	11484242						
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (5 %)	Fibrous Glass (40 %)						
77	11484243						
Layer: Stones			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (5 %)	Fibrous Glass (40 %)						
Comment: Bulk complex sample.							
78	11484244						
Layer: White Roof Shingle			ND				
Layer: Red Roof Shingle			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (55 %)	Fibrous Glass (10 %)						
79	11484245						
Layer: Black Mastic		Chrysotile	10 %				
Total Composite Values of Fibrous Components:		Asbestos (10%)					
Cellulose (Trace)							
80	11484246						
Layer: Black Mastic		Chrysotile	10 %				
Layer: White Coating			ND				
Total Composite Values of Fibrous Components:		Asbestos (10%)					
Cellulose (Trace)							
81	11484247						
Layer: Black Mastic		Chrysotile	10 %				
Layer: White Coating			ND				
Total Composite Values of Fibrous Components:		Asbestos (10%)					
Cellulose (Trace)							
82	11484248						
Layer: Black Mastic		Chrysotile	10 %				
Layer: White Coating			ND				
Total Composite Values of Fibrous Components:		Asbestos (10%)					
Cellulose (Trace)							
83	11484249						
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (15 %)	Synthetic (5 %)						

Client Name: Protech Consulting & Engineers Inc.

Report Number: B187728

Date Printed: 02/24/14

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
84	11484250						
Layer: Grey Mastic			ND				
Layer: Grey Mastic		Chrysotile	10 %				
Total Composite Values of Fibrous Components:		Asbestos (5%)					
Cellulose (15 %)	Synthetic (5 %)						
85	11484251						
Layer: Black Mastic		Chrysotile	10 %				
Total Composite Values of Fibrous Components:		Asbestos (10%)					
Cellulose (15 %)	Synthetic (5 %)						
86	11484252						
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Fibrous Glass (45 %)							
87	11484253						
Layer: Grey Mastic		Chrysotile	10 %				
Total Composite Values of Fibrous Components:		Asbestos (10%)					
Cellulose (Trace)							
88	11484254						
Layer: Grey Mastic		Chrysotile	10 %				
Total Composite Values of Fibrous Components:		Asbestos (10%)					
Cellulose (Trace)							
89	11484255						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
90	11484256						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
91	11484257						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
92	11484258						
Layer: Off-White Putty			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: Protech Consulting & Engineers Inc.

Report Number: B187728

Date Printed: 02/24/14

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
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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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1208 MAIN STREET, REDWOOD CITY, CA 94063
 P: (650) 569-4020 • F: (650) 569-4023 • E: hazinspect@yahoo.com

Date: February 17, 2014

Project No.: 104-AA14

Project: Former General Mills Plant, 790 Derr, Vallejo, California

Location: Warehouse Building

Analysis: PLM

TAT: 48 Hr

Laboratory: FASI

PO No.: 0218-104-24

SAMPLE INFORMATION

Sample Description	Location of Homogeneous Area	Sample Nos.
1. Gray floor coating	South warehouse floor	01, 02
2. Gray light weight concrete deck	Bridge penthouse deck	03, 04
3. Silver/black coating on corrugated metal	Corrugated metal bridge structure	05, 06
4. White 1'x1' ceiling tile with yellow mastic	• 1 st floor lab • Mezzanine restroom	07
5. Gray wall patch	CMU partition wall	08
6. Wall coating	Exterior wall	09, 10
7. Gray wall patch	Concrete exterior wall	11
8. Mortar - below ceramic floor tile	1 st floor lab floor	12
9. Yellow mastic below wall panel	Mezzanine restroom	13
10. Gray plaster wall	1 st floor lab - observed at window	14
11. Tar and gravel roof membrane	Roof field	15, 16
12. Mastic - roof	Roof: • Penetrations • Base flashing	17, 18
13. Patch membrane - roof	South end around penthouse	19
14. Tan mortar/sealant building base	Concrete loading building - exterior sealant	20
15. Black/gray composition shingle roof	Warehouse entry shed roof	21
16. Gray membrane - roof	Concrete loading building - roof	22
17. Gray membrane/sealant - roof	Concrete loading building - roof joint	23
18. Drywall - wall below fiberglass panel (no tape or Joint compound observed)	Mezzanine restroom	24

	Relinquished By	Date/Time	Received By	Date/Time
1.	<i>[Signature]</i>	2/20/14 1:20	<i>[Signature]</i>	2/20/14 1:30
2.				
3.				



Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Protech Consulting & Engineers Inc.
Project Manager

1208 Main St.
Redwood City, CA 94063

Client ID: 1454
Report Number: B187721
Date Received: 02/20/14
Date Analyzed: 02/24/14
Date Printed: 02/24/14
First Reported: 02/24/14

Job ID/Site: 104-AA14 - Former General Mills Plant, 790 Derr, Vallejo, California,
Warehouse Building

Date(s) Collected:

FALI Job ID: 1454
Total Samples Submitted: 24
Total Samples Analyzed: 24

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
01	11484044						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
02	11484045						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
03	11484046						
Layer: Beige Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
04	11484047						
Layer: Beige Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
05	11484048						
Layer: Black Tar			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
06	11484049						
Layer: Black Tar			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: Protech Consulting & Engineers Inc.

Report Number: B187721

Date Printed: 02/24/14

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
07	11484050						
Layer: Yellow Mastic			ND				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (95 %)							
08	11484051						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
09	11484052						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
10	11484053						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
11	11484054						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
12	11484055						
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
13	11484056						
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (5 %)							
14	11484057						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: Protech Consulting & Engineers Inc.

Report Number: B187721

Date Printed: 02/24/14

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
15	11484058						
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (25 %) Fibrous Glass (35 %)							
Comment: Bulk complex sample.							
16	11484059						
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (25 %) Fibrous Glass (35 %)							
Comment: Bulk complex sample.							
17	11484060						
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
18	11484061						
Layer: Black Mastic		Chrysotile	10 %				
Total Composite Values of Fibrous Components:		Asbestos (10%)					
Cellulose (Trace) Fibrous Glass (5 %)							
19	11484062						
Layer: White Roof Shingle			ND				
Layer: Black Felt			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (55 %) Fibrous Glass (10 %)							
20	11484063						
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

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Report Number: B187721

Date Printed: 02/24/14

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
21	11484064						
Layer: White Roof Shingle			ND				
Layer: Black Felt			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (55 %)	Fibrous Glass (10 %)						
22	11484065						
Layer: Off-White Non-Fibrous Material			ND				
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
23	11484066						
Layer: White Non-Fibrous Material			ND				
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
24	11484067						
Layer: White Drywall			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)							



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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Consulting & Engineering

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P: (650) 569-4020 • F: (650) 569-4023 • E: hazinspect@yahoo.com

Date: February 17, 2014

Project No.: 104-AA14

Project: Former General Mills Plant, 790 Derr, Vallejo, California

Location: Bulk House Building (transite building)

Analysis: PLM

TAT: 48 Hr

Laboratory: FASI

PO No.: 0218-104-12

SAMPLE INFORMATION

Sample Description	Location of Homogeneous Area	Sample Nos.
1. Gray corrugated cement panels (transite)	Exterior walls and roof	01
2. Gray sheet cement panels	Interior walls – attached north shed	02
3. Beige coating	On exterior concrete	03, 04, 05
4. Gray mortar/patch – wall	Exterior wall pipe penetration	06
5. Black/gray mastic/sealant – wall	Exterior wall pipe penetration	07
6. Gray cap sheet membrane - roof	Roof field on concrete building & CMU shed	08
7. Gray mastic – roof	Roof field seam mastic on concrete building & CMU shed	09
8. Gray mastic – roof	Roof butt seam mastic on concrete building & CMU shed	10
9. White wall coating	Interior concrete walls – concrete building	11, 12

	Relinquished By	Date/Time	Received By	Date/Time
1.	<i>[Signature]</i>	2/20 10:10	<i>[Signature]</i>	2/20/14 1pm
2.				
3.				

