PBS

Limited Hazardous Materials Survey Report – Summary of Findings

Plaza 17
1001 17th Street SE
Auburn, Washington

Prepared for:
Mr. Steve Jefferis
King County Housing Authority
Tukwila, Washington

February 2007
PBS Project #: 40573.011

130 Nickerson Street
Suite 107
Seattle, WA 98109
206.233.9639 MAIN
206.762.4780 FAX

PBS

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February 22, 2007

Mr. Steve Jefferis
Capital Construction Department
King County Housing Authority
625 Andover Park West, Ste. 107
Seattle, WA 98188-3326

RE: Plaza 17, 1001 17th Street SE, Auburn, Washington
Hazardous Material Investigation Summary
PBS Project No. 40573.011

Dear Mr. Jefferis:

PBS Engineering and Environmental (PBS) performed a limited hazardous materials investigation of Plaza 17 located at 1001 17th Street SE, Auburn, Washington to determine the presence of asbestos-containing materials (ACM), lead-containing paints (LCP), PCB-containing light ballasts, and mercury-containing components. The intent of this letter is to ensure that King County Housing Authority (KCHA) is in compliance with the Puget Sound Clean Air Agency and Washington State Department of Labor and Industries' requirement that a "good faith" inspection for ACM be performed prior to renovation or demolition activities

Plaza 17 is a six-story structure consisting of seventy (70) residential units. Interior finishes consist of plaster, concrete masonry unit (CMU) and gypsum board walls. Ceilings are 2' x 4' lay-in tiles, 12" x 12" glued-on tiles and gypsum board. Floors are constructed of concrete covered with vinyl floor tile and carpet. The exterior is constructed of brick with gypsum board soffits. The building has a built-up flat roof coated with silver paint. Heat is supplied to all areas of the building by electric baseboard heaters. Hot water is supplied to residential units and public areas by individual hot water heaters for each functional space.

FINDINGS

Asbestos-Containing Materials (ACMs)

While PBS has endeavored to identify all ACM, unidentified ACM may exist in concealed or inaccessible locations. Inaccessible areas are defined as those requiring selective demolition, fall protection or confined-space entry protocols to gain access. PBS recommends that concealed components and materials be investigated prior to impact.

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Suspect materials were sampled by AHERA-accredited Inspector, Janet Murphy (Cert #1023243 exp. 08/16/07) on January 25-29, 2007. Samples were assigned unique identification numbers and delivered to Northern Laboratory and Consulting Services, under chain-of-custody protocols. Samples were analyzed according to EPA Method 600R-93/116 using Polarized Light Microscopy (PLM), which has a reliable limit of quantification of 1% asbestos by volume. Materials found to contain asbestos in concentrations greater than 1% (unless otherwise noted) as determined by PLM are outlined below:

- Black sink undercoating on stainless steel sinks throughout;
- 12" x 12" Tan vinyl floor tile with brown spots and associated black mastic in unit kitchens and bathrooms. This floor tile is also concealed under non-asbestos 12" x 12" tan vinyl floor tiles with blue spots in unit kitchens and bathrooms;
- 12" x 12" Tan vinyl floor tile with texture and associated black mastic in the Community Room and Community Room Kitchen;
- Black mastic under 12" x 12" vinyl floor tile in unit kitchens, bathrooms, Laundry Room, Community Room and Community Room Kitchen;
- Hard fittings on pipes in the shop, garbage room and concealed in wall cavities;
- Brown mastic associated with 12" x 12" white ceiling tile in Community Room, foyer, and 1st Floor office space (<1%);
- Black sealant on boiler chimney;
- Fire doors at stairway entrances and corridor doors throughout (assumed).

The following materials were not found to contain asbestos via sampling by PBS:

- Wall texture in residential units;
- Wall plaster in first floor bathrooms and around elevator shaft walls;
- Formica and mastic on counter tops in units and Community Room Kitchen;
- 12" x12" Tan vinyl floor tile with blue spots in unit kitchens and bathrooms;
- Mastic under yellow ceramic tile in unit bathrooms;
- Ceramic tile grout in unit bathrooms;
- 2' x 4' White lay-in ceiling tiles in corridors;
- Straight run fiberglass insulation and lagging throughout;
- White fibrous gasket on boiler in Boiler Room;
- Gray sealant on exterior window frames;
- Black sealant on exterior door frames;
- White undercoating on stainless sinks in units;
- Stair tread and yellow mastic in stairwells;
- Lagging on fiberglass pipe insulation;
- Gray cementitious packing around pipe penetrations in janitor closets;
- Black doorway strip in Garbage Room;
- Yellow carpet mastic under carpets throughout;
- Gray sealant on ducts throughout;
- Gray sealant on interior fire doors;
- Red fire stop sealant in janitor closets;
- Concrete panels on ceiling of Boiler Room and HVAC Room on roof;
- Wallboard and Joint Compound throughout;

- 4" Tan covebase and associated brown/tan/white mastic throughout;
- 4" Brown covebase and associated brown/tan/white mastic throughout;
- 4" Tan/pink covebase and associated brown/tan mastic in the 1st Floor public restrooms;
- 4" Green covebase with associated yellow mastic in the first floor hall;
- 12" x 12" White ceiling tile in Community Room, foyer, 1st Floor office space (Mastic <1% asbestos);
- 12" x 12" Tan vinyl floor tile with white streaks and associated yellow mastic in the 1st floor public restrooms;
- Silver paint and black sealant on cell tower supports;
- Gray sealant on parapet walls;
- Gray sealant on roof access doors;
- Built-up roofing.

While PBS has presumed the presence of and endeavored to identify the ACMs that may be found in concealed locations, additional unidentified ACMs may exist. Concealed ACMs that may exist at Plaza 17 include, but are not limited to the following:

Pipe/fitting insulation inside wall cavities;
Vapor barrier inside walls;
Adhesives/mastics in ceiling spaces and in wall layers.

Lead Containing Paint (LCP) and Lead-Wrapped Vent Stacks

PBS collected samples of seven (7) representative paint coatings from various interior and exterior building component surfaces. Samples were analyzed and laboratory results were between <0.0038% and 0.9200% lead. Five (5) of the seven (7) samples collected tested positive for lead. Paint samples were analyzed using Atomic Absorption Lead Analysis. See the attached Paint Chip Sample Inventory and laboratory report for additional information.

Thirteen (13) lead-wrapped vent stacks were identified on the upper and lower roofs.

PCBs

PBS was informed by the KCHA representative that all of the light fixtures in the units were replaced with fixtures housing non-PCB-containing ballasts in Summer 2006. The corridor light fixtures were retrofitted to newer energy saving tubes. PBS inspected a representative number of corridor light fixture ballasts. The ballasts inspected were labeled "No PCBs". PBS did not inspect the ballasts in the units.

Mercury-Containing Components

Fluorescent lamps are not scheduled to be impacted by this project. All fluorescent lamps (tubes) are presumed to contain mercury vapors.

RECOMMENDATIONS

Asbestos-Containing Materials (ACMs)

The ACMs identified should be removed by properly trained and protected personnel using appropriate work practices and engineering controls prior to impact by demolition or renovation. A qualified asbestos abatement contractor licensed in the State of Washington should be employed to remove such ACMs according to applicable local, state and federal regulations.

Caution should be exercised during renovation/demolition, as concealed ACMs may exist in various locations. Demolition activities should be performed by personnel having received a minimum of the WISHA two-hour asbestos awareness training. All work that may impact asbestos should be performed by personnel having received proper training and utilizing proper worker protection according to WISHA standards. Work impacting asbestos is subject to the requirements of various regulations, including, but not limited to: 40 CFR Part 61, NESHAPS; 40 CFR Part 763, AHERA; WAC 296-62 and 296-65; and Puget Sound Clean Air Agency Regulation III, Article 4, Asbestos.

It is recommended that KCHA include contract language specifically addressing the proper removal and disposal of ACMs. It is also recommended that contract language include references to asbestos-related regulations. Workers potentially impacting ACMs are advised to confirm training requirements of WISHA and to ensure that proper worker protection and work practices are implemented.

Lead Containing Paint (LCP) and Lead-Wrapped Vent Stacks

Painted coatings containing detectable concentrations of lead are considered LCP. The presence of LCP requires construction activities to be performed according to Washington Labor and Industries regulations for Lead in Construction (WAC 296-62-155). Workers impacting LCP should be provided the proper personal protective equipment and use proper work methods to limit occupational and environmental exposure to lead until an initial exposure assessment has been conducted. Based on lead concentrations detected to date, it is not anticipated that demolition debris will require disposal as "dangerous waste" per WAC 173-303, Dangerous Waste Regulations. Waste characterization should be performed to confirm disposal requirements.

Lead-wrapped roof vent stacks should be removed and recycled or disposed of as hazardous waste. PBS recommends recycling or disposal per WAC 173-303 Dangerous Waste Regulations should the vent stacks require removal or replacement

PCBs

PBS recommends inspection of all ballasts prior to removal and disposal. All ballast not labeled "No PCBs" that are scheduled for removal should be, properly removed, stored, transported and disposed of according to applicable regulations.

Mercury-Containing Components

PBS recommends that existing fluorescent lamps (tubes) be handled and/or recycled in accordance with applicable regulations during replacement or renovation/demolition activities. Procedures required include proper handling, labeling, storage and transport of tubes prior to recycling/disposal at a properly licensed facility. Clean-up of any broken tubes should include proper worker protection and disposal.

Report prepared by:

Janet Murphy
AHERA Building Inspector
(Cert#1020842 exp: 8/16/07)

Report reviewed by:

Mark Hiley
Project Manager

Attachment 1: PLM Sample Inventory
PLM Laboratory Reports
PLM Chain-of-Custody
PBS Inspector Certification

Attachment 2: Lead Sample Inventory
Lead Laboratory Reports
Lead Chain-of-Custody

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ATTACHMENT - 1
PLM Asbestos Sample Inventory
Laboratory Results
Chain of Custody
Certifications

PLM SAMPLE INVENTORY

PBS SAMPLE #	MATERIAL TYPE	LOCATION	LAB DESCRIPTION	LAB RESULT	LAB
40573.011 -001	12x12 Tan Vinyl Floor Tile w/Holes Black Mastic	Community Room	Layer 1: Off-white floor tile with spots Layer 2: Black asphaltic mastic	3% Chrysotile 2% Chrysotile	NLC NLC
40573.011 -002	Counter Formica Yellow Mastic	Unit 412	Layer 1: Brown/red hard material Layer 2: Gold mastic	NAD NAD	NLC NLC
40573.011 -003	Counter Formica Yellow Mastic	Community Room Kitchen	Layer 1: Brown/white hard chunk Layer 2: Gold mastic	NAD NAD	NLC NLC
40573.011 -004	12x12 White Ceiling Tile Brown Mastic	Foyer	Layer 1: Coating on yellow fibrous material Layer 2: Brown brittle mastic	NAD <1% Tremolite	NLC NLC
40573.011 -005	12x12 White Ceiling Tile Brown Mastic	Recreation Room	Layer 1: Coating on yellow fibrous material Layer 2: Brown brittle mastic	NAD <1% Tremolite	NLC NLC
40573.011 -006	Ceramic Tile Mastic	Unit 411 Bathroom	Layer 1: Gold mastic	NAD	NLC
40573.011 -007	Ceramic Tile Mastic	Unit 208 Bathroom	Layer 1: Gold mastic	NAD	NLC
40573.011 -008	Ceramic Tile Grout	Unit 411 Bathroom	Layer 1: White powdery material	NAD	NLC
40573.011 -009	2x4 White Lay-in Ceiling Tile	1st Floor Corridor	Layer 1: Paint on gray fibrous material	NAD	NLC
40573.011 -010	Wall Plaster	Unit 103 Bathroom	Layer 1: Paint on white powder Layer 2: Gray coarse material	NAD NAD	NLC NLC
40573.011 -011	Wall Plaster	Unit 110 Bathroom	Layer 1: Painto n gray coarse powdery material	NAD	NLC
40573.011 -012	Wall Plaster	Unit 106 Bathroom	Layer 1: Paint on white coarse chunk	NAD	NLC
40573.011 -013	Lagging on Fiberglass Pipe Insulation	Boiler Room	Layer 1: Coating on foil Layer 2: Yellow fibrous material	NAD NAD	NLC NLC
40573.011 -014	Lagging on Fiberglass Pipe Insulation	Boiler Room	Layer 1: White thick coating Layer 2: Yellow fibrous material	NAD NAD	NLC NLC

40573.011 -015	Lagging on Fiberglass Pipe Insulation	Boiler Room	Layer 1: Coating on foil Layer 2: Yellow fibrous material	NAD NAD	NLC NLC
40573.011 -016	Boiler Gasket	Boiler Room	Layer 1: White fibrous material	NAD	NLC
40573.011 -017	Hard Fitting on Pipe	1st Flr Janitors Closet in Wall Cavity	Layer 1: Gray fibrous powder	15% Amosite	NLC
40573.011 -018	Hard Fitting on Pipe	1st Flr Janitors Closet in Wall Cavity	Layer 1: Gray fibrous powdery material	15% Amosite	NLC
40573.011 -019	Hard Fitting on Pipe	1st Flr Janitors Closet in Wall Cavity	Layer 1: Woven material with gray fibrous powder	15% Amosite	NLC
40573.011 -020	Hard Fitting on Pipe	Maintenance Shop	Layer 1: White fibrous powdery material	25% Amosite	NLC
40573.011 -021	Wall Plaster	Flr 6 Around Elevator	Layer 1: White hard chunk Layer 2: White coarse powdery chunk	NAD NAD	NLC NLC
40573.011 -022	Wall Plaster	Flr 4 Around Elevator	Layer 1: White hard chunk Layer 2: Gray hard coarse material Layer 3: Brown fibrous material	NAD NAD NAD	NLC NLC NLC
40573.011 -023	Wall Plaster	Flr 2 Around Elevator	Layer 1: White coarse material	NAD	NLC
40573.011 -024	Black Sink Undercoat	Unit 402	Layer 1: Black asphaltic material	2% Chrysotile	NLC
40573.011 -025	Black Sink Undercoat	Unit 105	Layer 1: Black asphaltic material	3% Chrysotile	NLC
40573.011 -026	Window Frame Sealant	Exterior Front	Layer 1: Gray pliable material	NAD	NLC
40573.011 -027	Door Frame Sealant	Exterior Front	Layer 1: Black pliable material	NAD	NLC
40573.011 -028	Straight Run Pipe Insulation	1st Flr Above Ceilings	Layer 1: Silver foil on white fibrous material Layer 2: Yellow fibrous material	NAD NAD	NLC NLC
40573.011 -029	Straight Run Pipe Insulation	1st Flr Above Ceilings	Layer 1: Foil on white papery fibrous material Layer 2: Yellow fibrous material	NAD NAD	NLC NLC
40573.011 -030	Straight Run Pipe Insulation	1st Flr Above Ceilings	Layer 1: Foil on white fibrous papery material	NAD	NLC
40573.011 -031	Gray Packing Around Pipe Penetrations	4th Flr Janitors Closet	Layer 1: Gray coarse material	NAD	NLC
40573.011 -032	Doorway Strip	Garbage Room	Layer 1: Black pliable material	NAD	NLC

40573.011 -033	Yellow Carpet Mastic	Foyer	Layer 1: Gold mastic	NAD	NLC
			Layer 2: Gray coarse material	NAD	NLC
40573.011 -034	Gray Sealant on Duct	1st Flr Above Ceiling	Layer 1: Gray pliable material	NAD	NLC
40573.011 -035	Gray Sealant on Fire Doors	1st Flr Inside Building Door	Layer 1: Gray pliable material	NAD	NLC
40573.011 -036	Red Sealant Fire Stop	4th Flr Janitors Closet	Layer 1: Brown pliable material	NAD	NLC
40573.011 -037	Concrete Panels	Ceiling of HVAC Room on Roof	Layer 1: Gray coarse material	NAD	NLC
40573.011 -038	Joint Compound Gypsum Wallboard	Unit 508 Kitchen	Layer 1: Off-white powder	NAD	NLC
			Layer 2: Tan papery material with white powder	NAD	NLC
40573.011 -039	Joint Compound Gypsum Wallboard	Unit 207 Kitchen	Layer 1: Off-white chunk	NAD	NLC
			Layer 2: Tan papery material with white powder	NAD	NLC
40573.011 -040	Joint Compound Gypsum Wallboard	Unit 412 Kitchen	Layer 1: Off-white powder	NAD	NLC
			Layer 2: Tan papery material with white powder	NAD	NLC
40573.011 -041	Joint Compound Gypsum Wallboard	Unit 105 Living Room	Layer 1: Off-white powdery chunk	NAD	NLC
			Layer 2: Tan papery material with white powder	NAD	NLC
40573.011 -042	4" Tan Covebase White and Brown Mastic	Unit 108	Layer 1: Tan pliable material	NAD	NLC
			Layer 2: White pliable material	NAD	NLC
40573.011 -043	4" Tan Covebase White and Brown Mastic	Unit 109	Layer 1: Tan pliable material	NAD	NLC
			Layer 2: Brown brittle mastic	NAD	NLC
40573.011 -044	4" Brown Covebase Brown Mastic	Unit 107	Layer 1: Brown pliable material	NAD	NLC
			Layer 2: Brown pliable material	NAD	NLC
40573.011 -045	4" Brown Covebase Brown Mastic	Unit 402	Layer 1: Brown pliable material	NAD	NLC
			Layer 2: Brown brittle mastic	NAD	NLC
40573.011 -046	4" Gray Covebase Tan and Brown Covebase	3rd Flr Corridor	Layer 1: Gray pliable material	NAD	NLC
			Layer 2: Yellow mastic	NAD	NLC
40573.011 -047	4" Tan-Pink Covebase Brown Mastic	1st Flr Womens Restroom	Layer 1: Tan pliable material	NAD	NLC
			Layer 2: Brown brittle mastic	NAD	NLC

40573.011 -048	4" Green Covebase Tan/Black Mastic	1st Flr Hall	Layer 1: Green pliable material	NAD	NLC
			Layer 2: Yellow pliable mastic	NAD	NLC
40573.011 -049	Black Sealant on Boiler Chimney	Boiler Room Roof	Layer 1: Black asphaltic thick material	2% Chrysotile	NLC
40573.011 -050	Built-up Roofing	Boiler Room Roof	Layer 1: White mineral granules on black asphaltic fibrous material	NAD	NLC
			Layer 2: Black asphaltic fibrous material	NAD	NLC
			Layer 3: Black asphaltic fibrous material	NAD	NLC
			Layer 4: Black asphaltic material	NAD	NLC
			Layer 5: Brown fibrous material	NAD	NLC
			Layer 6: Yellow airy material	NAD	NLC
			Layer 7: Black asphaltic fibrous material	NAD	NLC
40573.011 -051	Built-up Roofing	Main Building, East Roof	Layer 1: Silver paint	NAD	NLC
			Layer 2: Black asphaltic fibrous material	NAD	NLC
			Layer 3: Black asphaltic fibrous material	NAD	NLC
			Layer 4: Black asphaltic fibrous material	NAD	NLC
			Layer 5: Black asphaltic fibrous material	NAD	NLC
			Layer 6: Black asphalitc brittle material	NAD	NLC
			Layer 7: Brown fibrous material	NAD	NLC
			Layer 8: Yellow airy material	NAD	NLC
			Layer 9: Black asphaltic fibrous material	NAD	NLC
40573.011 -052	Built-up Roofing	Main Building, West Roof	Layer 1: Silver paint	NAD	NLC
			Layer 2: Black asphaltic fibrous material	NAD	NLC
			Layer 3: Black asphaltic fibrous material	NAD	NLC
			Layer 4: Black asphaltic fibrous material	NAD	NLC
			Layer 5: Brown fibrous material	NAD	NLC
			Layer 6: Yellow airy material	NAD	NLC
			Layer 7: Black asphaltic fibrous material	NAD	NLC
40573.011 -053	Silvercoat on Cell Tower Supports	Roof	Layer 1: Silver paint	NAD	NLC
			Layer 2: Black asphaltic material	NAD	NLC
40573.011 -054	Gray Sealant	Roof Acess Door	Layer 1: Gray pliable material	NAD	NLC
40573.011 -055	Gray Sealant	Metal Roof Flashing	Layer 1: Gray paint on black pliable material	NAD	NLC

40573.011 -056	12x12 Tan Vinyl Floor Tile, Tan and White Streaks Yellow Mastic	1st Flr Womens Restroom	Layer 1: Off-white tile with streaks	NAD	NLC
			Layer 2: Gold mastic	NAD	NLC
			Layer 3: Gray coarse material	NAD	NLC
40573.011 -057	12x12 Tan Vinyl Floor Tile, Tan Spots Black Mastic	Unit 307 Kitchen	Layer 1: White tile with streaks	2% Chrysotile	NLC
			Layer 2: Black asphaltic mastic	2% Chrysotile	NLC
40573.011 -058	12x12 Tan Vinyl Floor Tile, Tan Spots Black Mastic	Unit 107 Kitchen	Layer 1: Off-white floor tile with streaks	2% Chrysotile	NLC
			Layer 2: Black asphaltic mastic	2% Chrysotile	NLC
40573.011 -059	12x12 Tan Vinyl Floor Tile, Tan Spots Black Mastic	Unit 305 Bathroom	Layer 1: Off-white floor tile with streaks	2% Chrysotile	NLC
			Layer 2: Black asphaltic mastic	2% Chrysotile	NLC
			Layer 3: Black asphaltic mastic	2% Chrysotile	NLC
40573.011 -060	12x12 Tan Vinyl Floor Tile, Tan and Blue Spots Black Mastic	Unit 203 Kitchen	Layer 1: Off-white floor tile with green/peach floor tile	NAD	NLC
			Layer 2: Gold mastic	NAD	NLC
			Layer 3: Black asphaltic mastic	2% Chrysotile	NLC
40573.011 -061	12x12 Vinyl Floor Tile Tan with Tan Spots Black Mastic	Laundry Room	Layer 1: Off-white floor tile with streaks	NAD	NLC
			Layer 2: Black asphaltic mastic	2% Chrysotile	NLC
40573.011 -062	12x12 Tan Vinyl Floor Tile with Tan and Blue Spots Black Mastic	Unit 109 Bathroom	Layer 1: White tile with peach/green floor tile	NAD	NLC
			Layer 2: Gold mastic	NAD	NLC
			Layer 3: Brown brittle mastic	NAD	NLC
40573.011 -063	12x12 Tan Vinyl Floor Tile and Blue Spots over 12x12 Tan Vinyl Floor Tile Tan Spots Yellow Mastic	Unit 605 Kitchen	Layer 1: White tile with blue/tan streaks	NAD	NLC
			Layer 2: Gold mastic	NAD	NLC
			Layer 3: Off-white floor tile with tan streaks and black mastic	2% Chrysotile	NLC

ATTACHMENT - 2
AA Lead Paint Chip Sample Inventory
Laboratory Results
Chain of Custody

FLAME AAS PAINT CHIP SAMPLE INVENTORY - LEAD

PBS Sample #	Paint Color/ Substrate/Component	Sample Location	Pb Result (mg/kg)	Pb % Result	Lab
40573.011 -Pb01	Red Silver/Paint/Metal	Roof HVAC Room Exterior	9200.0	0.9200	NVL
40573.011 -Pb02	White/Gypsum Wallboard/Wall	Bathroom 510	<38.0	<0.0038	NVL
40573.011 -Pb03	White/Gypsum Wallboard/Wall	Living Room 204	<39.0	<0.0039	NVL
40573.011 -Pb04	White/Gypsum Wallboard/Wall	Kitchen 105	450.0	0.0450	NVL
40573.011 -Pb05	Blue Purple/Plaster/Wall	Elevator Wall on Flr 6	710.0	0.0710	NVL
40573.011 -Pb06	Brown/Paint/Metal	Firedoor Floor 4	5000.0	0.5000	NVL
40573.011 -Pb07	Brown/Paint/Metal	Exterior Trim	150.0	0.0150	NVL

< = Less than the Limit of Detection

NVL Laboratories, Inc.

4708 Aurora Ave. N., Seattle, WA 98103
Tel: 206.547.0100, Fax: 206.634.1936
www.nvllabs.com

Analysis Report

AIHA - IH # 101861
WA - DOE # C1765

AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY

Total Lead (Pb)

Client: PBS Environmental (Seattle)
Address: 130 Nickerson St Suite 107
Seattle, WA 98109

Attention: **Ms. Janet Murphy**
Project Location: KCHA - Plaza 17

Batch #: 2701386.00
Matrix: Paint Chips
Method: EPA 7000B
Client Project #: 40573.011
Date Received: 01/29/2007
Samples Received: 7
Samples Analyzed: 7

Lab ID	Client Sample #	Sample Weight	RL in mg/Kg	Results in mg/Kg	Results in percent
27007828	40573.011-Pb1	0.2149	38.0	9200.0	0.9200
27007829	40573.011-Pb2	0.2124	38.0	< 38.0	< 0.0038
27007830	40573.011-Pb3	0.2090	39.0	< 39.0	< 0.0039
27007831	40573.011-Pb4	0.0976	83.0	450.0	0.0450
27007832	40573.011-Pb5	0.2013	40.0	710.0	0.0710
27007833	40573.011-Pb6	0.1180	69.0	5000.0	0.5000
27007834	40573.011-Pb7	0.2025	40.0	150.0	0.0150

Sampled by: Client
Analyzed by: Ahmad Izzat
Reviewed by: Nick Ly

Date Analyzed: 01/31/2007
Date Issued: 01/31/2007

Nick Ly, Technical Director

mg/ Kg =Milligrams per kilogram
Percent = Milligrams per kilogram / 10000
Note : Method QC results are acceptable unless stated otherwise.
Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

RL = Reporting Limit
'<' = Below the reporting Limit

Bench Run No: 27-0131-1