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PROJECT REFERENCES

Environmental Dredging Projects (First 5)

- **Demonstrated Experience Dredging and Handling/Disposing Contaminated Sediments**

1) **Kill Van Kull Contract 8**, Newark Bay, NJ

Owner: Army Corps of Engineers, NY District
Address: 26 Federal Plaza, New York, NY 10278-0090

Value: \$37,000,000
Dates: July 2003 – November 2004

Contact: Mr. Hal Hawkins, Project Manager
Address: 26 Federal Plaza, New York, NY 10278-0090
Ph: (212) 264-9092

Environmental Compliance: Work was performed in accordance with regulations.

Kill Van Kull Contract 8, New York Harbor

Work on this project began in July 2003 and it has just been completed. The Kill Van Kull Channel (KVK) provides access to Newark Bay and is home to one of the busiest



container ports in the world. Part of an aggressive improvement project, this phase increased the depth to 45 feet and generated approximately 1.5 million cubic yards of material. Of that volume, roughly 200,000 cubic yards of pre-characterized contaminated sediments considered unsuitable for ocean disposal were processed and placed at a designated upland disposal site. The remaining

material – a combination of silt, clay, and some rock – was transported out to sea and placed as cap material over a Historic Area Remediation Site (HARS).

2) Fort Point Channel Dredging, Boston, MA

Owner: Massachusetts Turnpike Authority
Address: 185 Kneeland Street, Boston, MA

Value: \$2,000,000
Dates: June 2002 – March 2003

Contact: Mr. Matt Wiley
Address: 185 Kneeland Street, Boston, MA
Ph: (617) 951-6094

Environmental Compliance: Work was performed in accordance with regulations.

Fort Point Channel Dredging, Boston, MA

Contaminated dredge sediments were excavated under strict turbidity controls to an exact elevation to accept pre-cast concrete erosion control mats and perimeter rip rap.



This area of the channel is subject to a 9-foot tidal range and is only 50 feet wide. In Fort Point Channel the contamination was predominantly low-level TPH, with varying degrees of metals but mostly lead and arsenic. These materials were transported by barge to Spectacle Island where they were either processed with cementitious materials or amended with other soils prior to placement

and compaction. Similarly, dredged sediments from the KVK Project in New York that required upland disposal were pretreated with cement and fly ash prior to upland disposal.

3) **New Bedford Pier Dredging**, New Bedford, MA

Owner: City of New Bedford, Harbor Development Commission
Address: City Hall, 133 William St, New Bedford, MA 02740

Value: \$3,300,000
Dates: June 2002 – August 2002

Contact: John Simpson,
Executive Director of the New Bedford Harbor Dev. Commission

Address: City Hall, 133 William St, New Bedford, MA 02740
Ph: (508) 961-3000

Environmental Compliance: An Administrative Consent Order with penalty was received for unauthorized discharge of oil into the harbor when equipment became damaged as a result of striking debris on the harbor bottom. A negotiated settlement was reached with the Department of Environmental Protection to the satisfaction of both Jay Cashman, Inc. and the DEP.

New Bedford Pier Dredging, New Bedford, MA



Dredged 60,000 cubic yards of sediment requiring remediation and upland disposal. The project required compliance with strict environmental windows and accommodation of scheduled marine traffic deadlines. Cashman successfully made specific project milestones, completing dredge work before deadlines and getting the job done on time. Also, Cashman worked in cooperation by partnering with the City of New Bedford and the engineers.

4) Portsmouth, NH Naval Shipyard Dredging

Owner: Department of the Navy
Address: Portsmouth Naval Shipyard, Portsmouth, NH 03804-5000

Value: \$1,008,752
Dates: December 2001 – April 2002

Contact: Roger Hamlin, Resident Engineer

Address: Portsmouth Naval Shipyard, Portsmouth, NH 03804-5000
Ph: (207) 252-7907

Environmental Compliance: Work was performed in accordance with regulations.

Portsmouth, NH Naval Shipyard Dredging



Dredged contaminated sediment alongside a pier/bulkhead at an active northeast marine facility. Material was dredged, dewatered, stabilized and disposed of at onsite upland disposal site.

5) Maintenance Dredging Naval Weapons Facility, Colts Neck, NJ

Owner: Department of the Navy
Address: Naval Facilities Engineering Command
Lester, PA

Value: \$4,560,400
Dates: October 2003 – January 2004

Contact: Ms. Noel Willette, Contracting Officer

Address: US Naval Facilities Command
Ph: (610) 595-0552

Environmental Compliance: Work was performed in accordance with regulations.

Maintenance Dredging Naval Weapons Facility, Colts Neck, NJ

This winter project involved dredging material in deep water (35-40 feet) within the confines of a secure military facility. While in this sensitive security area, the dredging had to work around ongoing marine activity and complete the project within a limited period of time.



6) Mamaroneck Harbor, NY

Owner: U.S. Army Corps of Engineers, NY District
Address: 26 Federal Plaza, New York, NY 10278-0090

Value: \$5,300,000
Dates: January 1999 – April 2000

Contact: John Tavolaro, Resident Engineer

Address: 26 Federal Plaza, New York, NY 10278-0090
Ph: (212) 264-9020

Environmental Compliance: Work was performed in accordance with regulations.

Mamaroneck Harbor, NY



The Mamaroneck Harbor dredging in New York was performed for the New York District Army Corps of Engineers. While not a large project, it posed the challenge of working in a shallow, narrow channel – one that needed to remain open for marine traffic every minute of every day. JCI used the 375 Caterpillar hydraulic excavator dredge. The work needed to be scheduled in tandem with traffic. No problems were encountered excavating 170,000 cubic yards of sediment in 3½ months.

7) Hyannis Harbor Beach Nourishment, Hyannis, MA

Owner: U.S. Army Corps of Engineers
Address: 696 Virginia Rd, Concord, MA 01742

Value: \$1,300,000
Dates: September 1998 – February 1999

Contact: Chris Kirk, President
Gibson & Cushman

Address: 38 Homan Ave, Bayshore, Long Island 11706
Ph: (631) 665-0353

Environmental Compliance: Work was performed in accordance with regulations.

Hyannis Harbor Project, Hyannis, MA

As part of the re-alignment and improvement of the entrance channel, which provides year-round ferry service to the islands of Martha's Vineyard and Nantucket, this project



involved the hydraulic removal of 120,000 cubic yards of material. This material was placed and graded on three local beaches. The project also involved the mechanical removal and placement of contaminated sediment within a confined aqueous disposal site (CAD Cell) outside of the harbor entrance. All of the work was performed

during severe winter weather and required that the channel remain open to a large fleet of commercial vessels.

8) Nantasket Pier, Hull, MA

Owner: Massachusetts DEM Waterways
Address: 349 Lincoln St, Hingham, MA 02043

Value: \$1,750,000
Dates: May 2000 – March 2001

Contact: Kevin Maguire, Resident Engineer

Address: 349 Lincoln St, Hingham, MA 02043
Ph: (781) 740-1600

Environmental Compliance: Work was performed in accordance with regulations.

Nantasket Pier, Hull, MA



Mechanical dredging of the Weir River. Roughly 83,000 cubic yards of dredge was transported for open sea disposal. This project improved access to the redeveloped Nantasket Pier.

9) **Pilgrim Nuclear Power Plant**, Plymouth, MA

Owner: Boston Edison Company/Entergy Corp.
Address:

Value: \$650,000
Dates: 1998

Contact: Jim Manning, Owner's Representative

Address:
Ph: (508) 830-7871

Environmental Compliance: Work was performed in accordance with regulations.

Pilgrim Nuclear Power Plant, Plymouth, MA



The Pilgrim Nuclear Power Plant Dredging project (40,000 cubic yards) in Plymouth, MA required precision dredging at the plant's cooling water intake structure. The turbidity controls were very stringent, due to concerns with plant turbines. Cashman employed turbidity-removal techniques successfully developed on past projects.

10) Maintenance Dredging Scituate Entrance Channel and Scituate Harbor

Owner: U.S. Army Corps of Engineers
Address: 696 Virginia Rd, Concord, MA 01742

Value: \$2,100,000
Dates: August 2002 – February 2003

Contact: Maurice Beaudoin, Resident Engineer

Address: 696 Virginia Rd, Concord, MA 01742
Ph: (508) 294-9857

Environmental Compliance: Work was performed in accordance with regulations.

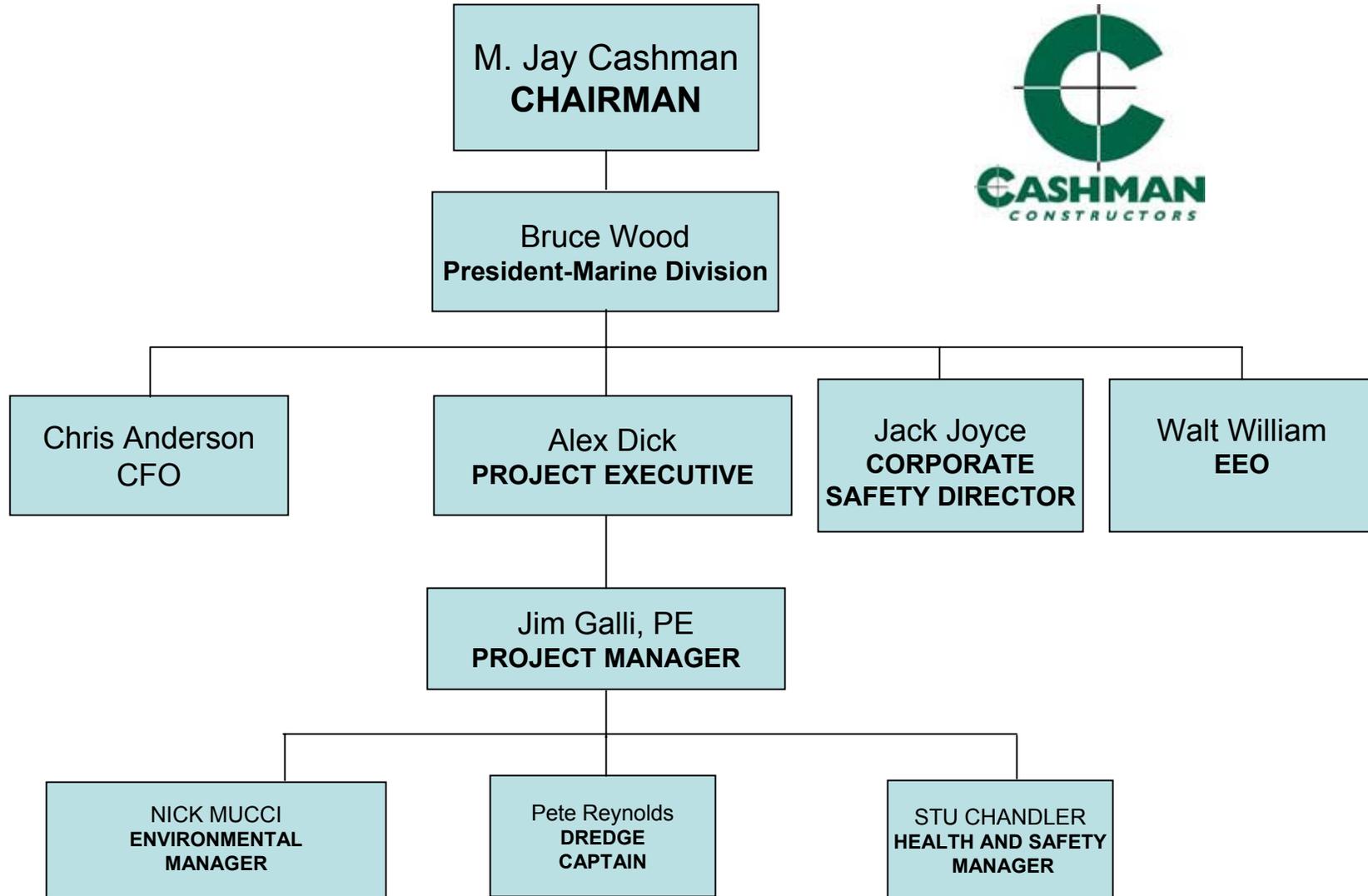
Scituate Harbor Dredging, Scituate, MA



Mechanical dredging with open sea disposal performed for NE District ACOE during limited dredging “window.” Dredging was in confined channel that was kept open for active commercial fishing operations for duration of project. The project included environmental protection of sea grass beds and shellfish by maintaining over 4,000 feet of silt curtain throughout the project.

JAY CASHMAN, INC. ORGANIZATION CHART

Lower Passaic River Dredging Pilot Study Project



W. BRUCE WOOD
President - Marine Division
Jay Cashman, Inc.

EXECUTIVE SUMMARY

As President of Jay Cashman Inc.'s Marine Division, Bruce brings to the job more than 20 years' experience in the construction industry, with special expertise in complex, large scale marine work and high productivity dredging.

He is responsible for day-to-day operations management, estimating, and administration in the oversight of the majority of the company's marine, heavy construction, and highway sole ventures, ranging in size from under a million dollars to \$50 million. Bruce also serves as President of Sterling Equipment, a subsidiary which owns, operates, and manages the twelve million dollars' worth of trucks, cranes, barges, and dredges used on Cashman projects.

In administration, he works closely with senior management, providing direction of the company's human resources, marketing, and contracts administration departments, as well as oversight of EEO, safety, and personnel policies.

Areas of expertise:

- dredging
- marine construction
- field construction operations
- bridge/pier construction
- personnel management
- heavy equipment operations, maintenance, and permitting

PROFESSIONAL EXPERIENCE

OPERATIONS OVERSIGHT OF THE FOLLOWING ONGOING PROJECTS

• *Principal-in Charge – Massachusetts Turnpike Millbury Interchange, Exit 10A.* Complete construction of a new interchange which links the Massachusetts Turnpike directly to access roads into the city of Worcester. Included in the work is demolition, earth moving, the widening of two existing bridges over the Turnpike, plus the construction of two new ones. Client: Massachusetts Turnpike Authority.
(Project value: \$35 million)

• *Principal-in Charge – Boston Harbor Clean-up Project, Deer Island, Massachusetts.* Removal of the 700,000 tons of tunnel stone that were dug from the 9-mile outfall tunnel linking the Island's waste water treatment facility with undersea diffusers. Work required removal from the island by barge of materials which were transported to a pier in Everett and ultimately used to cap a contaminated site in Everett. Client: Massachusetts Water Resources Authority.
(Project value \$17 million)



• *Principal-in Charge – Multiple Dredging Projects.* The company's dredging operations maintain vigorous, often around-the-clock schedules to maximize productivity during short windows of opportunity. The following dredging projects were completed or initiated during the 1996-1999 seasons:

- Pilgrim Power Plant (40,000 cubic yards)
- Plymouth Yacht Club (6,000 cubic yards)
- Old Colony Yacht Club, Dorchester (3,000 cubic yards)
- Cohasset Harbor (private client) (10,000 cubic yards)
- Scituate Harbor (U.S. Coast Guard) (7,500 cubic yards)
- Hingham Harbor (145,000 cubic yards)
- Deer Island, Boston Harbor (20,000 cubic yards)
- Mamaroneck Harbor, NY (160,000 cubic yards)
- Perth Amboy Marina, NJ (30,000 cubic yards)
- Hyannis Harbor Dredging (90,000 cubic yards)
- Town of Scituate (40,000 cubic yards)

• *Principal-in Charge – Boston Central Artery/Tunnel Project, Relocation of Utilities, Charlestown, Massachusetts.* Removal and reinstallation of gas, water, sewer, and underground electrical lines in preparation for excavation and construction of tunnel egress and highway interface. Client: Massachusetts Highway Department.
(Project value: \$4 million)

ON-SITE PROJECT MANAGEMENT EXPERIENCE (HIGHLIGHTS)

- *Project Manager – Deer Island Water Treatment Facility (various projects)*
Client: Massachusetts Water Resources Authority
 - Demolition of Fort Dawes (\$4 million)
 - Site Preparation (earthworks/road building) (\$14 million)
 - Excess Till Removal (removing 1.4 million cubic yards by barge) (\$14 million)
- Demolition of Deer Island House of Correction, (also, installation of utilities, landscaping, and removal of additional excess till) (\$16 million)
 - *Project Manager – Bridge Construction (various projects)*
Client: Massachusetts Turnpike Authority
- *Grafton, Massachusetts.* Reconstruction of eight bridges, four eastbound, and four westbound over a two-year period. Involved demolition of old decks and construction of new ones. Work was planned to allow for ongoing traffic flow in three lanes in each direction for the duration of the project.
(Project value: \$4 million)
- *Newton, Massachusetts.* Complex construction over highly traveled Route 128. Work included removal of deteriorated concrete and installation of a polymer latex cement in its place. Work was completed in stages in order to accommodate ongoing traffic.
(Project value: \$3 million)
- *Framingham, Massachusetts.* Reconstruction of six bridges, three eastbound, three westbound, including deck replacement, paving, and utilities.
(Project value: \$5 million)



- *Project Manager – Construction of Martha’s Vineyard Ferry Terminal.*
Client: Martha’s Vineyard/Wood’s Hole Steamship Authority.
(Project value: \$2.5 million)

EDUCATION

B.S., Civil Engineering
Worcester Polytechnical Institute
Worcester, Massachusetts

PROFESSIONAL CERTIFICATIONS

Licensed Construction Supervisor
Licensed Hoist Engineer
Massachusetts Department of Public Safety

PROFESSIONAL AFFILIATIONS

Labor Relations Board
Legislative Board
(former member, Board of Directors)
Construction Industries of Massachusetts



ALEX DICK
Dredging Project Manager
Jay Cashman, Inc.

EXECUTIVE SUMMARY

Alex has been active in the marine-dredging industry for nearly twenty years. During that period he has assumed increasingly more responsible positions from Field Engineer to Survey Superintendent to Administrative Engineer to his present role as Project Manager. This experience has been gained under the employ of some of the most respected names in the dredging industry from Great Lakes Dredging to Dutra to Jay Cashman, Inc.

Areas of expertise:

- developing budgets
- estimating
- cost analysis

PROFESSIONAL EXPERIENCE (HIGHLIGHTS)

- *Project Manager - Scituate South River & Scituate Harbor.* Oversaw dredging operations of both these projects.
- *Project Manager – Metro North Railroad Bridge, Bridgeport, Connecticut.* Dredging and obstruction removal of material.
- *Project Manager – Pilgrim Power Plant, Plymouth.* Dredged and removed approximately 40,000 cubic yards in front of the cooling intake system for the nuclear power plant. Excavated material, loaded to dump scows, and hauled to the Mass Bay Disposal area. Dredging was performed by a clamshell bucket. Client: Boston Edison Company.
(Project Value: \$500,000)
- *Project Manager - Mamaroneck Harbor, New York.* Dredging/ocean disposal of 170,000 cubic yards in 3.5 months. Worked in shallow waters that required constant tide monitoring. Restored harbor to over 10 feet MLW, to allow commercial and recreational boating, and maintain a federal channel. Client: Department of the Army, New York District.
(Project Value: \$5,223,680)
- *Project Manager – Perth Amboy Marina, Perth Amboy, New Jersey.* Mechanically dredged and off loaded contaminated material from inside the marina onto water tight



scows. Transported material to a dewatering facility in Port Elizabeth, NJ. Material was stabilized using fly ash then loaded onto rail cars and brought to Pennsylvania for disposal. Approximately 30,000 cubic yards were removed at a rate of 1,000 cubic yards per day. Client: City of Perth Amboy.
(Project Value: \$400,000)

- *Project Manager – Hyannis Harbor Dredging, Hyannis, Massachusetts.* Hydraulic dredging of an entirely new section of the channel used by passenger/vehicle ferries. Work involved removing 120,000 cubic yards of sand, building an in-shore containment dike, and filling the dike with dredged sand, to be used for nourishment of area beaches at a future date. Fast-track work was kept on schedule despite a series of severe winter storms. Client: Army Corps of Engineers;
(Project Value: \$1.3 million)

- Responsible for all operational aspects of a \$40 million dollar Miami, Florida Harbor Deepening Project, including developing budgets, schedules, operating costs and production data for the first Marine Hydraulic Excavator in the United States.

- Estimated, planned maintenance and/or performed dredging in some of the most significant parts in the United States including: Boston Harbor, Baltimore Harbor, San Francisco, Norfolk Harbor, Virginia and Jacksonville, Florida.

EDUCATION

B.S. – Engineering, University of South Florida

Professional Affiliations

U.S. Hydrographic Society

SNAME

WEDA – Western Dredging Association



JAMES J. GALLI, PE
Dredging Project Manager
Jay Cashman, Inc.

Executive Summary

Mr. Galli has had a rich, varied, and rewarding career in the construction industry. His experience encompasses dredging, marine construction, foundations, fossil fuel power plants, subsurface investigation, as well as extensive estimating and hazards analysis.

An honors degree in Civil Engineering from Penn State in 1970, and more than 25 years of solid industry background in the art of estimating and the disciplines of construction management allows Mr. Galli to offer considerable expertise in the following areas:

- Dredging
- Marine Construction
- Reinforced Concrete Construction
- Steel Construction
- Foundation Piling

PROFESSIONAL EXPERIENCE

Employment History:

1995 – 1998 Dutra Dredging Company
1992 – 1995 Galli and Associates
1988 – 1992 American Dredging Company

Mr. Galli was Division Manager for American Dredging Company, responsible for \$ 30 million of annual construction works. He was the general project manager for a pioneering dike construction project, at Wilmington South dredged material placement site, which utilized high strength geotextile to enable founding on semi-stable substrata. His signature was on many of the previously untested and untried construction and dredging placement, which ultimately affected a successful, sound and viable containment structure to be constructed on what appeared to be untenable substrata.

He was the project manager for the Expedient Underwater Survey of Shu-Aibah harbor in Kuwait. This survey was necessary prior to the reopening of the harbor subsequent to the Gulf War. He dictated the movement of equipment supplies to the area to accomplish this delicate operation within three weeks of the cessation of hostilities. The timing was particularly accurate as the bulk of the equipment imported to quench the oil fire in the Ahmadi Fields had to pass through Shu-Aibah Port.



Design Accomplishments:

- Design and estimate for Beach fill Brigantine, NJ. \$ 4 million
- Designed inlet dredging for Berkely Township, Ocean County, NJ. \$ 200,000

With the Dutra companies, Mr. Galli was a Vice President and Project Manager of the \$74 million Oakland Harbor Deepening Project. This challenging project moved 7 million cubic yards of material by scow for pump-out and upland disposal of two distinct sites, one of which was a highly successful wetlands restoration effort. The remainder of the spoil was placed at sea, 55 miles west of the Golden Gate Bridge.

Credentials:

- BS Civil Engineering – Pennsylvania State University (1970)
- Professional Engineer Civil – Pennsylvania (1975)
- Professional Engineer Civil – New Jersey

- Society of Professional Engineers
- American Welding Society
- Bay Planning Coalition, Board Member
- Bay Dredging Action Committee

- State of California A Classification Contractor's License #752121

NICHOLAS J. MUCCI
Environmental Manager
Jay Cashman, Inc.

EXECUTIVE SUMMARY

With more than 20 years experience in the environmental industry Mr. Mucci is involved in assessing environmental risk and ensuring regulatory compliance for existing and new business. He provides consultation to clients involved with site assessment, remediation, waste management, beneficial reuse and Brownfield redevelopment. As a former Project Director for one of the nation's largest remedial contractors and Environmental Affairs Manager for a \$2 billion dollar international company, Mr. Mucci's broad industry background lends itself well to the unique and technically challenging projects undertaken by Jay Cashman, Inc.

Areas of expertise:

- solid and hazardous waste management
- site assessment
- Environmental auditing
- Soil and groundwater remediation
- Sediment treatment
- Beneficial reuse
- Brownfield Redevelopment

PROFESSIONAL EXPERIENCE (HIGHLIGHTS)

IT Corporation/Shaw Environmental, Hopkinton, Ma. Regional project director responsible for oversight/management of remedial construction throughout New England. Involved both technical and financial management of projects and ensuring compliance with corporate policies and procedures. Shaw environmental is one of the country's largest providers of engineering, design and construction services and the regions Emergency Response Contractor for the US EPA.

Thermo Electron Corporation, Waltham, Massachusetts. Directly responsible for environmental regulatory compliance of all operations throughout North America and for the coordination of these activities for international locations. Reviewed and approved assessments, audits, and remediation activity.

Thermo Consulting Engineering, Middleboro, Massachusetts. Managed a 25-person engineering consulting division, a subsidiary of Thermo Electron Corporation, with full responsibility for profit and loss, strategic planning. Directed the transition of the division from building design services to civil and environmental engineering.



Clean Harbors Environmental Services, Inc., Braintree, Massachusetts. Directed the technical resources of one of the largest environmental services providers in the country. Responsible for over 100 engineers, scientists, and technicians, providing analytical laboratory services and environmental engineering services supporting emergency response and remediation activities throughout the eastern United States.

SCA Chemical Services, Chemical Waste Management, Braintree, Massachusetts. As part of one of the largest hazardous waste management companies in the country, involved in coordinating disposal activities and managing waste site clean-ups throughout the Northeast. Involved in the early clean-ups under the Federal Superfund program in Region I, including the Motollo Road site, Keefe site, and Ottawi and Goss sites in New Hampshire, as well as the Norwood PCB site, Baird and McGuire, and the Silresim sites in Massachusetts.

EDUCATION

B.S., Environmental Science
Springfield College
Springfield, Massachusetts

PROFESSIONAL AFFILIATIONS

Environmental Business Council
Professional Environmental Management Association

Stewart J. Chandler ASP
Safety Officer/ Industrial Hygienist
Jay Cashman, Inc.

Executive Summary

As Safety Officer/ Industrial Hygienist, Stu draws on eleven years of experience dealing with health and safety in hazardous waste remediation, heavy civil, marine, and general construction. He is responsible for the development, implementation, and general management of health and safety programs at both a corporate and project level. He is held accountable for the over-all health and safety performance for several ongoing projects. His last long term project finished with a recordable rate of 4.74 and a lost time rate of 2.77. Both rates are less than half the national average. His program has also won two Gold and two Bronze awards from the Central Artery Tunnel Project with a total of over 1.5 million dollars in monetary incentive, for the project. All this was done while logging in excess of 2 million man-hours.

Stu manages the safety program on site by holding Supervisors, Foremen, and other Safety Officers accountable for the safety of their workers. He also works closely with upper management in the development of safe working procedures for new operations. Training and Education of the employees are also key elements of his program.

Areas of expertise:

- Air Monitoring
- Environmental Sampling
- Industrial Hygiene
- OSHA and State Regulation
- Army Corps Regulation
- City, State, and Federal Agency Inspections
- Preparing and Implementing Health and Safety Plans
- Preparing and Implementing Emergency Response Plans
- Employee Training; OSHA 30 hour constructional safety, OSHA 10 hour constructional safety, confined space, competent person-trenching, respirator training and fit testing, hazardous communication, blood born pathogen, hearing conservation, fall protection, electrical safety, site safety rules and procedures.
- Developing a Safety Committee
- Tool Box Talks
- Accident Investigation
- Safety Audits
- Document Control

PROJECT EXPERIENCE

- *Site Safety Officer/ Industrial Hygienist, Jay Cashman Inc.- Old Colony Railroad Rehabilitation Greenbush Line, Weymouth, MA-* Reconstruction of over 18 miles of commuter rail line and integration to the active commuter rail system. The project involves extensive bridge construction, new track and signal construction, utilities, roadwork, wetlands replication, construction of 2 tunnels, new station construction, retaining and noise walls, landscaping and restoration. Special work includes: pile driving, slurry wall/soil mix construction; soil nailing, drilled shaft construction and large scale earthworks. This project is the first design/build contract awarded by the Massachusetts Bay Transportation Authority. In addition to facility construction, the design/build team is responsible for permitting, facility design, quality control and assurance, historic preservation and mitigation, property acquisition case folders, wetlands replication and endangered species protection measures. Client: Massachusetts Bay Transportation Authority
(Project Value: approximately \$252 million)
- *Site Safety Officer/ Industrial Hygienist, Jay Cashman Inc. – Boston Central Artery/ Tunnel Project C09A7, Fort Point Channel –* A joint venture of Cashman/Perini/Kiewit/Atkinson. An extremely complex project involving the demolition of an underground garage entrance, an existing rail road bridge and a motor vehicle bridge, construction of a new entrance, temporary rail and vehicle bridges, soil stabilization, pile driving, caisson installation, jet grouting, and an underground ramp constructed via cut and cover techniques.
- *Site Safety Officer/ Industrial Hygienist, Jay Cashman Inc. – Massachusetts Water Resource Authority Boston Harbor Project Ventilation Pipe –* A joint venture Cashman/Interbeton. Installation of a vent shaft ten miles out to sea. This project involved the out-fitting of a jack-up barge, the fabrication of an elaborate vent shaft, extensive dive work, connecting the vent shaft to a pre-existing diffuser, the dismantling of the vent shaft and restoring the diffuser to operation.
- *Site Safety Officer/ Industrial Hygienist, Jay Cashman Inc – Port Authority, Port Newark New Jersey.* Contract construction activities included: Site preparation, erosion and sedimentation Control, in-situ and ex-situ stabilization of potential source material, surface cover construction, dust and odor control, storm water management, install water supply system and electrical conduit system,
- *Site Safety Officer/ Industrial Hygienist, Jay Cashman Inc – Army Corps of Engineers DACW61-00-B-0024, Repair of Barnegat Inlet Lighthouse Revetment.* Repair of the existing Barnegat Inlet Lighthouse Revetment and the placing of marine mattresses. Work consisted of loading and placing of materials from barges and inspection of placement by divers.
- *Site Safety Officer/ Industrial Hygienist, Jay Cashman Inc – Aquarium, Boston Massachusetts –* A joint venture with Macomber. The construction of an Imax Theater.

Lower Passaic River Dredging Pilot Study Proposal
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The project included: pile driving, concrete work, utility relocation, trench work, and steel erection.

- *Site Safety Officer/ Industrial Hygienist, Jay Cashman Inc. – Boston Central Artery/ Tunnel Project, Utility Relocation North of the Charles River.* The project involved the demolition of a highway on ramp, trench work: locking out and removing existing utility lines and installing replacement lines. This work was done next to live rail lines and under an active highway.
- *Site Safety Officer/ Industrial Hygienist, Jay Cashman Inc. – Boston Central Artery/ Tunnel Project C021A2, Spectacle Island –* A joint venture Cashman/Kiewit/Atkinson A heavy civil project involving the expansion of an existing island using soil excavated from the Central Artery. Work involved cofferdam construction, the placing and treating of soil, pile driving, building piers, swales, retaining walls, installing riprap, landscaping, and bringing utilities to the island.
- *Site Safety Officer, Modern Continental Construction Co., Inc. Boston Harbor Project CP043 and CP160, Deer Island -* Responsibilities included: coordinating the site safety plan among contractors, conducting weekly “Tool Box Talks”, monitoring and enforcing OSHA regulation, company policies, and the site Health and Safety Plan, writing safety analysis, issuing confined space, excavation and hot work permits, submitting road closure, excavation, and lockout tagout permits to the Contract Manager. Also maintaining all safety, first aid, and fire prevention equipment. Also responsible for the organizing and administering of the Accident Prevention Program to include daily inspections, follow up on daily inspection and correcting discrepancies, investigate workplace injuries, illnesses, and near-misses to develop a means to prevent reassurance of these incidents. Participated in inspection by Federal, State, or local authorities.
- *Senior Health and Safety Technologist, OHM Corporation: Baird McGuire Superfund Site, Holbrook, MA Mobile Thermal Destruction Unit. -* Responsibilities included: Conducting safety meetings, writing safety analysis, issuing permits to include: confined space, excavation, hot work, and line breaks, performing fit tests and heat stress monitoring. Also calibrated and operated three gas meters, LEL/O₂ meters, PID/FID, portable dust monitors, personal sampling pumps, colorimetric tubes, and noise meters. Responsible for the enforcement of company policies along with OSHA and USACE regulations.
- *Health and Safety Officer, OHM Corporation: Rose Twp. MI, Mobile Thermal Destruction Unit, and Superfund Site. -* Responsibilities included: Conducting safety meetings, writing safety analysis, issuing permits to include: confined space, excavation, hot work, and line breaks. Also performed fit tests and heat stress monitoring, calibrated and operated gas meters, LEL/O₂ meters, PID/FID, portable dust monitors, personal sampling pumps, colorimetric tubes, and noise meters. Responsible for the enforcement of company policies along with OSHA and USACE regulations.
- *Sample Technologist Instructor, OHM Corporation: Findlay Ohio. -* Prepared, planned, organized and instructed the 40-hour sample technologist-training course.

**Lower Passaic River Dredging Pilot Study Proposal
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- *Sample Technologist Instructor, OHM Corporation - BP Oil, Ohio/ Camp Dresser McGee, IL/ Kimberly Clark, Ohio\USACE Ft. McCoy, WI/ Write Patterson Air force Base, Ohio/ Conestoga Rovers and Assoc., Romulus, MI./ Dupont Chemical. Ohio/USX corp., Ohio/Logan count Engineers, Ohio/ Matamora Landfill: Superfund Site, MI. - Wrote and implemented the sampling plans for lagoons, ponds, pools, frac tanks, drums, soil ,wipe samples, teflar bag samples, sorbent tubes, MCEF cassettes, colorimetric tubes, PIDs, FIDs, LEL/O₂, mono-tox, radiation, and dust.*

EDUCATION

B.S. – Environmental & Hazardous Materials Management With an emphasis in Industrial Hygiene
University of Findlay, Findlay, Ohio

PROFESSIONAL AFFILIATIONS

Member. American Industrial Hygiene Association
Member. American Society of Safety Engineers

CERTIFICATIONS

Associate Safety Professional
OSHA 500 course
40 hour OSHA
8 hour refresher
8 hour Supervisor Training
10 hour Construction Safety & Health
40 hour Sample Technologist Training
45 hour Health and Safety Officer Training
Red Cross CPR & First Aid
Troxler Safety Training
MBTA Right of Way
Amtrak Right of Way

PAUL POIRIER
Superintendent
Jay Cashman, Inc.

EXECUTIVE SUMMARY

Paul has been involved in the construction industry for a number of years. He has worked on both construction and dredging projects in and outside of Massachusetts. His experience working both on land and on the water compliments his ability to continually upgrade and maintain the equipment used on these projects. His ability to make decisions and work with a minimum of direction helps to keep projects moving forward and on schedule. His hands on approach to supervising helps to ensure that the work is being done on time, correctly and safely.

Areas of expertise:

- maintenance of floating equipment
- dredging (both mechanical and hydraulic)
- materials handling
- inventory control
- purchasing

PROFESSIONAL EXPERIENCE (HIGHLIGHTS)

- *Yard Superintendent – Sterling Equipment Company, Inc.* Oversees the maintenance and upgrading of various dredging equipment: dumpscows, “Wood I” clamshell & “Wood II” backhoe. Supervises and schedules dredge crew.
- *Dredging Superintendent – Metro North Railroad Bridge, Bridgeport, Connecticut.* Dredging and obstruction removal of material. Maintenance of dredging equipment.
- *Dredging Superintendent - Mamaroneck Harbor, New York.* Dredging/ocean disposal of 170,000 cubic yards in 3.5 months. Worked in shallow waters that required constant tide monitoring. Restored harbor to over 10 feet MLW, to allow commercial and recreational boating, and maintain a federal channel. Client: Department of the Army, New York District; Value: \$5,223,680.
- *Dredging Superintendent - Spectacle Island .* A joint venture of Cashman, Kiewit, Perini, and Atkinson. This massive materials handling project was designed to manage the disposal of more than 2.7 million cubic yards of excavated and dredged soils and sediments resulting from the \$7.7 billion Central Artery/Tunnel project. Work includes construction of slurry wall and steel cofferdam, excavation and dredging, and materials placement, construction of a park, including placement of a stone revetment, construction of a trestle with a T-head pier, and construction of a concrete sea wall. Installation of utilities under water from Long Island to Spectacle Island. Client: Massachusetts Highway Department; Value: \$150 million.

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- *Dredging Superintendent – Hydraulic Channel Dredging, Hyannis.* Dredged more than 120,000 cubic yards of material with a hydraulic pump dredge. Placed dredged materials on three local beaches and graded each. Built an in-shore containment dike for remaining spoils. Careful scheduled ferry operations to maintain two daily trips. Client: Army Corps of Engineers; Value: \$1.3 million.
- *Purchasing Agent, Shipper/Receiver & Safety Office - Sterling Equipment Company.* Conducted inventory on equipment both received and in-house. Negotiated pricing with vendors. Processed paperwork necessary to ship materials. Informed employees of safety issues.
- *Yard Superintendent – Boston Marine Works, East Boston.* Oversaw the loading and unloading of equipment and material that was used for the Spectacle Island project. Maintained site including all buildings, piers, roadways and graving dock. Worked with U.S. Customs to maintain a secure area for cars and equipment being received for export to Haiti. Supervised receiving, storing and loading of cars and equipment onto vessel for export to Haiti.
- *Site Superintendent –State of NJ & Army Corps, Newark, NJ, Upcycle.* Pilot project for the State of NJ. Processing contaminated dredge spoils into lightweight aggregate as a means of disposal. In lieu of disposal at sea; Value: \$1,400,000.
- *Site Superintendent –Beazer East, Newark, NJ.* Remediation of former Koppers wood treatment facility. Remediate 8.3-acre site by removing the top 2' of material and stockpiling. Screen then mix with dry cement using a pug mill. Place material on site and grade and compact. In certain areas deep stabilization was required. This was done in place with an excavator with a rotary mixing head attachment and liquid grout to depths from 8' to 15'. Installed a water main with four fire hydrants, storm drainage system, light poles with electrical duct bank and ballards. Place, grade and compact approximately 3500 CY of imported material to meet finish grades. The site was then paved and a fence installed ; Value: \$5,200,000.
- *Dredge Superintendent –City of Stamford, Stamford, CT.* Maintenance Dredging of federal channel; Value: \$450,000.
- *Dredge Superintendent –Portsmouth Naval Shipyard, Portsmouth, NH.* Site contact for Navy personnel. Maintenance and new dredging of berths and approaches. Material was disposed of upland at the shipyard; Value: \$1,000,000
- *Dredge Superintendent –City of New Bedford, New Bedford Harbor, MA;* Maintenance dredging of state pier and approach with upland disposal; Value: \$5,200,000.
- *Dredge Superintendent- Long Wharf, Boston Harbor;* Move existing ferry dock and dredge approach and turning basin. Dispose of spoils upland. Relocate float and install upgraded gangway. Install concrete pad from gangway to

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sidewalk. Cover concrete pad with decorative stone walkway. Install light and pole at end of concrete pad for gangway;

Value: \$590,500.

- *Law Enforcement Specialist – United States Air Force (9 years)*

EDUCATION

SOMERVILLE TECHNICAL TRADES SCHOOL – ELECTRONICS

US ARMY CORPS OF ENGINEERS – CONSTRUCTION QUALITY MANAGEMENT FOR CONTRACTORS

PETER S. REYNOLDS
Superintendent
Jay Cashman, Inc.

EXECUTIVE SUMMARY

Pete is a highly skilled Superintendent with a wealth of experience in a variety of specialized fields. His primary responsibility is to provide on-site supervision in order to ensure that work is completed on-time, within budget, and in accordance with specifications. Additional responsibilities include estimating, scheduling, and overseeing day-to-day operations. Having worked for several years at ship building and marine repair facilities, Pete has an extensive knowledge of heavy marine construction and of the machinery-related work that is an integral part of shipyard operations.

Areas of expertise:

- marine fender systems installation
- dredging
- excavation
- concrete work
- heavy lift jacking
- building rehabilitation and construction
- concrete construction and structural repairs
- structural steel construction
- all aspects of quality control related to machinists' work
- hydro and pneumatic testing
- welding, weld inspections, pre-heat and post-weld heat treatments
- high- and low-speed machinery alignments

PROJECT EXPERIENCE

- *Superintendent – Lovejoy Wharf, Boston.* Construction of a water taxi pier.
Client: Massachusetts Highway Department.
(Project value: 1.7 million)

- *Quality Assurance Superintendent – Central Artery/Tunnel (CA/T) Project. Relocation of Utilities, Charlestown, Massachusetts.* Work involves removal and reinstallation of gas, water, sewer, and underground electrical lines in preparation for excavation and construction of tunnel egress and highway interface. Client: Massachusetts Highway Department.
(Project value: \$4 million)

- *Superintendent – Boston Graving Dock Operations, Boston, Massachusetts.* Responsible for a variety of projects including:
 - Machine reinstallations and rebuilds for Coast Guard vessels.

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- Re-outfitting of crew quarters barges (250-500 person capacity).
- Repairing caisson for permanent berth of *U.S.S. Constitution*.
- Laying out, building, and outfitting interiors/crew quarters of two Coast Guard 270 Medium Endurance Cutters.

- *Machinist Supervisor – Robert E. Derecktor Shipbuilding, Middletown, Rhode Island.* Responsible for day-to-day operations, including overseeing work of 45-person union steel workers' team, coordinating scheduling of new construction and repair jobs, preparing and submitting estimates for all levels of dry dock repair, conducting quality control inspections of all materials prior to installation. Also responsible for certifying all installations as meeting codes for both U.S. Military and American Bureau of Shipping Standards.

- *Superintendent – Emergency Abutment Repair, Congress Street Bridge, Boston, Massachusetts.* Grout had washed out of pier, and armor stone had settled, leaving a pier that was losing its strength rapidly. Installed 75,000 lbs. of steel strapping and injected 30 cubic yards of pressure grout to restore structural integrity of pier. Client: City of Boston Public Works Department.
(Project value: \$103 million)

- *Superintendent – Spectacle Island, Boston, Massachusetts.* Preparation of the 90-acre island to receive CA/T excavate; work included construction of slurry wall and cofferdam, excavation, dredging, and placement of dredged material, the eventual capping of the site, and the construction of a park, stone revetment, trestle with T-head pier and concrete sea wall. Client: Massachusetts Highway Department.
(Project value: \$150 million)
- *Superintendent – Deer Island, Boston, Massachusetts.* Removal of 700,000 tons of tunnel stone which was dug from the 9-mile outfall tunnel linking the Island's wastewater treatment facility with undersea diffusers. Work required removal from the island by barge of materials which were transported to a pier in Everett and ultimately used to cap a contaminated site in Everett. Client: Massachusetts Water Resources Authority.
(Project value: \$17 million)
- *Superintendent – Rehabilitation of Charlestown Housing Development, Charlestown, Massachusetts.* Demolition and reconstruction of the exterior grounds of a public housing project spread over four city blocks. The job required major excavation followed by installation of curbing, concrete and brick walkways, recreational equipment, lighting, and landscaping. Client: Boston Housing Authority.
(Project value: \$3 million)

EDUCATION

Technical Courses:

- *NDT Testing*
- *Magnetic Particle Testing*
- *Dye Penetrate Testing*
- *Visual Inspection of Welding Procedures*
- *Hydraulic Dredging*

PROFESSIONAL CERTIFICATIONS

USCG Chief Engineer License: 8000 hp

Proposed Dredging Equipment

Description	Number/Name	Yr. Built	Condition	Size (ft)	Capacity (CY/T)	Production	Engine	HP	Other
Bucket Dredge	Wood II		Good	135		2000cy/dy		250	4100W Manitowac
Environmental Bucket	SN 03286		Good		8CY				
Hopper Barge	SEI 3000	1982	Good	260	4000CY				
Hopper Barge	SEI 3001	1982	Good	260	4000CY				
Hopper Barge	SEI 3002	1983	Good	261	4000CY				
Hopper Barge	SEI 3003	1984	Good	262	4000CY				
Dump Scow	SEI 2000	1963	Good	171	2000CY				
Dump Scow	Joe Verrochi	2002	Very Good	240	4000CY				
Tug	Gunny	1983	Good	65			(2)CATC-18's	1200	
Tug	Pushy	1992	Very Good	25			(2)DetroitDiesel6v71		w/GPS
Tug	Capt. Gary	1978	Very Good	75			(2)16V92GM		w/GPS
Crew Boat	Jay Michael	1999	Very Good	100			Detroit Diesels	1530	Survey Equip./Other

