

DUMBARTON QUARRY STANDARD REQUIREMENTS FOR IMPORT

Dumbarton Quarry is operated and maintained by Pacific States Environmental Contractors, Inc. (PSEC). This facility is not open to the public and only accepts fill that is properly sampled/tested the results of which are within the acceptance criteria of Dumbarton Quarry. Each project must go through an environmental review prior to acceptance. The following outlines the minimum documentation required to begin the review process. For additional information and pricing please contact PSEC. (925) 803-4333 or Dumbarton@pacificstates.net

Submit Phase I and Phase II Environmental Assessments

Information contained in the Phase I and Phase II will be used to determine the chemicals of concern and what testing may be required. Public Works projects will need to submit an Engineer's or Consultant's report describing the property and past uses.

Submit SF Bay Regional Water Quality Control Board Closure Letters

If the property has been part of a San Francisco Bay Regional Water Quality Control Board site investigation, a closure letter must be submitted to PSEC documenting the investigation has been closed. Any contaminated or hazardous soils must be removed from the property prior to acceptance at Dumbarton Quarry.

Submit Soil Analytical Results for the following: Report must include a map with sample locations and depths relative to the corresponding excavation.

1. CAM 17 Metals
2. Total Petroleum Hydrocarbons Gasoline, Diesel and Motor Oil (TPH g,d,mo)
3. Volatile Organic Compounds (VOC's)
4. Semi-Volatile Organic Compounds, SIM List (SVOC's)
5. Pesticides (Maximum Reporting Limit of 2 ug/kg for Dieldrin & Endrin)
6. Polychlorinated Biphenyls (PCB's)
7. Asbestos, CARB 435 (Not required for all soil types. Contact PSEC for more information)

To meet the above criteria please contact PSEC for list of recommended testing facilities.

MINIMUM MATERIAL SAMPLING SCHEDULE REQUIREMENTS

<u>Area of Individual Borrow Area</u>	<u>Sampling Requirements</u>
2 acres or less	Min of 4 discrete samples
2 to 4 acres	Min of 1 discrete sample every ½ acre
4 to 10 acres	Min of 8 discrete samples Min of 8 borings with 4 sub discrete samples per boring

(If excavation contains greater than 1 geologic layer, the minimum number of samples is multiplied by each layer. For pipelines or trenches contact PSEC for frequency.)

Volume of Borrow Area Stockpile Samples per Volume

Up to 1,000 cubic yards	1 discrete sample per 250 cubic yards
1,000 to 5,000 cubic yards	4 discrete samples for first 1,000 cubic yards plus 1 discrete sample per each additional 500 cubic yards
Greater than 5,000 cubic yards	12 discrete samples for first 5,000 cubic yards plus 1 discrete sample per each additional 1,000 cubic yards

Submit reports to PSEC for consideration. PSEC must approve soil prior to the execution of an agreement or importing the soil. Any approval is subject to final inspection and approval of the material when it is received at the site.

General Acceptance Criteria

Chemical Parameter	Criteria	Units
Constituents highlighted in red may have a higher acceptance criteria but may require additional testing, consultants approval & additional fees		
Metals		
Antimony	20	mg/kg
Arsenic	15	mg/kg
Barium	750	mg/kg
Beryllium	4	mg/kg
Cadmium	12	mg/kg
Chromium III	50	mg/kg
Chromium VI	2.9	mg/kg
Cobalt	23	mg/kg
Copper	230	mg/kg
Lead	50	mg/kg
Mercury	6.7	mg/kg
Molybdenum	40	mg/kg
Nickel	150	mg/kg
Selenium	10	mg/kg
Silver	20	mg/kg
Thallium	0.78	mg/kg
Vanadium	200	mg/kg
Zinc	600	mg/kg

TPH		
TPH (gasolines)	100	mg/kg
TPH (middle distillates)	100	mg/kg
TPH (residual fuels)	500	mg/kg

Pesticides		
Aldrin	130	ug/kg
Chlordane	440	ug/kg
Dichlorodiphenyldichloroethane (DDD)	1000	ug/kg
Dichlorodiphenyldichloroethene (DDE)	1000	ug/kg
Dichlorodiphenyltrichloroethane (DDT) Sum	1000	ug/kg
Dieldrin	2.3	ug/kg
Endosulfan	4.6	ug/kg
Endrin	2	ug/kg
Heptachlor	13	ug/kg
Heptachlor epoxide	14	ug/kg
Methoxychlor	19000	ug/kg
Toxaphene	0.42	ug/kg

PCB's		
Polychlorinated Biphenyls (PCBs) Total	220	ug/kg

VOC and SVOC Criteria based on CA RWQCB Tier 1 ESL please contact PSEC for more information