

**Table 1.6
Site Stratigraphy
Pemaco Superfund Site, Maywood, California**

STRATIGRAPHIC ZONE	AVERAGE DEPTH INTERVAL	GENERAL LITHOLOGY	GENERAL GEOTECHNICAL CHARACTERISTICS
Upper Vadose Zone	Surface to 25' bgs	Surficial fill from 2' to 6' deep. Underlying native soils are predominately fine SM sands from 1' to 20' thick interbedded with fine SP and SP-SM sands from 2" to 6' thick. Local discontinuous lenses of silt/clay ranging from 3" to 4' thick are also present within upper vadose zone interval.	<ul style="list-style-type: none"> ▪ Total Porosity: 40% to 47% ▪ TOC: 1.15% to 2.12% ▪ Less than 200 Sieve: 14% to 33%
Perched Zone	25' to 30' bgs	Fine silty sand ranging from 6" to 4' thick. Locally, perched zone is comprised of sandy silts or silt with sand ranging from 1' to 3' thick.	<ul style="list-style-type: none"> ▪ Total Porosity: 42% to 48% ▪ TOC: 0.92% to 1.14% ▪ Less than 200 Sieve: 21% to 25%
"Perching" Clay	Top of clay ranges from 28' to 40' bgs	Silty Lean and Fat clays ranging from 1' to 15' thick comprise top of perching unit and are underlain and interbedded with clayey and sandy silts ranging from 1' to 8' thick. Perching lithosome ranges from 10' to 20' total thickness.	<ul style="list-style-type: none"> ▪ Total Porosity: 32% to 50% ▪ TOC: 0.48% to 3.71% ▪ Less than 200 Sieve: 77% to 90%
Lower Vadose Zone Sand	40' to 50' bgs	Predominately fine to medium SP sands and gravelly SW sands from 1' to 14' thick with local intervals of SM and SP-SM sands from 6" to 3' thick. Local interbeds of silt lenses from 6" to 4' thick are within this unit. Coarser units are derived from granitic source rocks.	<ul style="list-style-type: none"> ▪ Total Porosity: 46% to 54% ▪ TOC: 0.2% to 5% ▪ Less than 200 Sieve: 1% to 4%
Lower Vadose Zone (Fine-Grained interval)	50' to 65' bgs	Lean and Fat Clays ranging from 6" to 5' thick interbedded with Sandy and Clayey Silts ranging from 2' to 20' thick. Local discontinuous lenses of unsaturated SP and SM sands are present from 6" to 2" thick within interval.	<ul style="list-style-type: none"> ▪ Total Porosity: 47% to 68% ▪ TOC: 2.4% to 5.5% ▪ Less than 200 Sieve: 57% to 97%
Exposition 'A'	65' to 75' bgs	Fine SM and SP sands locally interbedded with SW sands. Thickness is highly variable ranging from 3" to 10' thick. Interval is comprised of a series of discontinuous saturated sand lenses.	<ul style="list-style-type: none"> ▪ Total Porosity: 44% to 69% ▪ TOC: 0.66% to 3% ▪ Less than 200 Sieve: 1.0% to 46% ▪ K range: 2.277E-03 ft/min to 8.281E-04 ft/min
'A' – 'B' Fine-Grained	75' to 80' bgs	Fat and Lean Clays with local interbeds of Clayey Silt with sand. Interval ranges from 5' to 10' thick and is continuous where both "A" and "B" aquifer zones are present.	<ul style="list-style-type: none"> ▪ Total Porosity: 46% to 49% ▪ TOC: 2.63% ▪ Less than 200 Sieve: 88% to 94%
Exposition 'B ₁ '	80' to 90' bgs	Fine SM, SP and SM-SP sands ranging from 1.5' to 10' thick. Some of the thicker portions of the unit have interbeds of silt/clay to 1' thick. The "B" zone is continuous throughout site vicinity.	<ul style="list-style-type: none"> ▪ Total Porosity: 55% to 56% ▪ TOC: 0.6% to 0.64% ▪ Less than 200 Sieve: 4% ▪ K range: 1.046E-01 ft/min to 6.56E-03 ft/min
Exposition 'B ₂ '	90' to 92' bgs	Fine SM, SC and SP-SM sands ranging from 1.5' to 2' thick. This secondary unit has only been observed underlying the southernmost portion of the site where it is separated by the overlying B ₁ unit by 1' to 3' of fat clay. This unit has not been observed offsite in any of the locations sampled below 90' bg.	
'B' – 'C' Fine-Grained	90' to 100' bgs	Predominately Fat and Lean Clays from from 8' to 10' thick with local interbeds Sandy Silts from 1' to 5' thick. Total thickness of unit ranges from 7' to 12'.	<ul style="list-style-type: none"> ▪ Total Porosity: 40% to 47% ▪ TOC: 0.92% to 2.12% ▪ Less than 200 Sieve: 14% to 33%
Exposition 'C'	100' to 110' bgs	Fine SM, SP and SP-SM sands ranging from 2' to 6' thick. Appears to be continuous throughout the site vicinity within the 95' to 110' depth interval.	<ul style="list-style-type: none"> ▪ Total Porosity: 40% to 47% ▪ TOC: 0.92% to 2.12% ▪ Less than 200 Sieve: 14% to 33%

Table 1.6 (continued)
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'C' – 'D' Fine-Grained	110' to 125' bgs	Lean and Fat Clays form 3' to 6' thick interbedded with Sandy and Clayey Silts from 4' to 12' thick. Total unit thickness ranges from 18' to 30'.	<ul style="list-style-type: none"> ▪ Total Porosity: 40% to 47% ▪ TOC: 0.92% to 2.12% ▪ Less than 200 Sieve: 14% to 33%
Exposition 'D'	125' to 140' bgs	Interbedded fine SM, SP and SP-SM sands, SW sands and gravelly sands and local GW intervals. Total thickness rages from 6' to 15'.	<ul style="list-style-type: none"> ▪ Total Porosity: 40% to 47% ▪ TOC: 0.92% to 2.12% ▪ Less than 200 Sieve: 14% to 33%
'D' – 'E' Fine-Grained	140' to 160' bgs	Predominately Clayey Silt with local interbeds of Lean Clays. Thickness ranges from 12' to 18'. Local saturated SM sand lenses to 2' thick located within interval.	<ul style="list-style-type: none"> ▪ Total Porosity: 40% to 47% ▪ TOC: 0.92% to 2.12% ▪ Less than 200 Sieve: 14% to 33%
Exposition 'E'	160' to 175' bgs	Alternating intervals of 1' thick fine SM sands and SW sands.	<ul style="list-style-type: none"> ▪ Total Porosity: 40% to 47% ▪ TOC: 0.92% to 2.12% ▪ Less than 200 Sieve: 14% to 33%
Lower Exposition Fine-Grained	175' to ???	Clay with Silt finely laminated with Silt. Local lenses of medium SP sand 6" thick.	<ul style="list-style-type: none"> ▪ Total Porosity: 40% to 47% ▪ TOC: 0.92% to 2.12% ▪ Less than 200 Sieve: 14% to 33%