Appendix 8

Paleontological Records Search

Natural History Museum of Los Angeles County 900 Exposition Boulevard Los Angeles, CA 90007

tel 213.763.DINO www.nhm.org

Vertebrate Paleontology Section Telephone: (213) 763-3325

e-mail: smcleod@nhm.org

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Eyestone Environmental 2121 Rosecrans Avenue, Suite 3355 El Segundo, CA 90245

Attn: Stephanie Eyestone-Jones, President

re: Paleontological resources for the proposed Mirman School Project, in the City of Los Angeles, Los Angeles County, project area

Dear Stephanie:

I have conducted a thorough check of our paleontology collection records for the locality and specimen data for the proposed Mirman School Project, in the City of Los Angeles, Los Angeles County, project area as outlined on the portion of the Beverly Hills USGS topographic quadrangle map that Robert Hilman sent to me via e-mail on 1 August 2019. We do not have any vertebrate fossil localities that lie directly within the proposed project area site boundaries, but we do have vertebrate fossil localities nearby from the same sedimentary deposits that occur in the proposed project area.

The entire proposed project area has exposures of the marine late Miocene Monterey Formation (also may referred to as the Lower Modelo Formation in this area). We have a cluster of Monterey Formation localities nearby centered around the proposed project area: LACM (CIT) 317, 320, 321, 334 [= LACM 1035], LACM 1029 and 1038. These localities produced an extensive composite fauna of marine fish, provided in an appendix along with a list of the literature documenting these occurrences. The closest of these localities is LACM (CIT) 321, immediately west of the proposed project area west of what is now Corda Drive. The most significant of these fossil localities, with the most diverse published fossil fauna, is LACM (CIT) 317, just southeast of the proposed project area at Sepulveda Boulevard. Lore Rose David published on many fish specimens from this and several other nearby Monterey Formation



localities in her 1943 publication (Miocene Fishes of Southern California). Notably, David (1943) named the fossil fish *Chalcidichthys malacopterygius, Eclipes santamonicae, Laytonia californica, Pseudoseriola gillilandi* and *Argyropelecus bullockii* based on holotypes (name bearing specimens) from locality LACM (CIT) 317. David (1943) furthermore named the fossil fish *Sarda stocki* based on a specimen from locality LACM 1035 [= LACM (CIT) 334] just south of west of the proposed project area near the Fire Station west of Westland School.

Any excavations in the Monterey Formation exposed throughout the proposed project area may very well encounter significant vertebrate fossils. Any substantial excavations in the proposed project area, therefore, should be monitored closely to quickly and professionally recover any fossil remains discovered while not impeding development. Also, sediment samples should be collected and processed to determine the small fossil potential in the proposed project area. Any fossils recovered during mitigation should be deposited in an accredited and permanent scientific institution for the benefit of current and future generations.

This records search covers only the vertebrate paleontology records of the Natural History Museum of Los Angeles County. It is not intended to be a thorough paleontological survey of the proposed project area covering other institutional records, a literature survey, or any potential on-site survey.

Sincerely,

Summel a. Mi Leod

Samuel A. McLeod, Ph.D. Vertebrate Paleontology

enclosures: appendices; invoice

Composite fauna from Monterey Formation localities LACM (CIT) 317, 320, 321, 334 [= LACM 1035], LACM 1029 and 1038

Osteichthyes			
Atheriniformes			
Exocoetidae			
Zelosis	hadleyi		
Beloniformes			
Scomberesocidae			
Scomberesox	acutillus		
Scomberesox	edwardsi		
Beryciformes			
Diretmidae - spinyfins			
Absalomichthys	velifer	Figured	
Chalcidichthys	malacopterygius	Holotype	
Clupeiformes			
Clupeidae - herrings			
Etringus	scintillans	Published	
Ganolytes	cameo	Figured	
Xyne			
Gadiformes			
Gadidae - cods			
Eclipes	santamonicae	Holotype	
Eclipes	veternus	Figured	
Myctophiformes			
Myctophidae - lanternfishes			
Lampanyctus		Published	
Notacanthiformes			
Halosauridae - extinct eels			
Laytonia	californica	Holotype	
Laytonia	californica	Holotype	

Perciformes			
Carangidae - jacks; amberjacks & pompanos			
Decapterus	agilis	Figured	
Pseudoseriola	gillilandi	Holotype	
Gempylidae			
Thyrsocles			
Sciaenidae			
Lompoquia			
Scombridae - mackerels & tunas			
Sarda	stocki	Holotype	
Scomber	grex		
Scomber	sanctaemonicae	Published	
Sparidae - porgies			
Plectrites	classeni	Figured	
Zaproridae - prowfishes			
Araeosteus	rothi	Figured	
Salmoniformes			
Bathylagidae - deep sea smelts			
Bathylagus	angelensis		
Quaesita	quisquilia	Published	
Scorpaeniformes			
Scorpaenidae - scorpionfishes & rockfishes			
Scorpaena	ensiger	Figured	
Sebastodes	porteousi	Published	
Stomiatiformes			
Chauliodontidae - viperfishes			
Chauliodus	eximius	Published	
Gonostomidae - bristlemouths			
Cyclothone		Published	
Sternoptychidae - hatchetfishes			
Argyropelecus	bullockii	Holotype	
Syngnathiformes			
Syngnathidae			
Syngnathus	avus		

Publications on specimens in the LACM collections from Monterey Formation localities LACM (CIT) 317, 320, 321, 334 [= LACM 1035], LACM 1029 and 1038

- Crane, Jules M. 1966. Late Tertiary Radiation of Viperfishes (Chauliodontidae) based on a Comparison of Recent and Miocene species. Natural History Museum of Los Angeles County, Contributions in Science, 115:1-29.
- David, Lore Rose 1943. Miocene Fishes of Southern California. Geological Society of America Special Paper, 43:1-193.
- Fitch, John E. and Lloyd W. Barker. 1972. The Fish Family Moridae in the Eastern North Pacific with Notes on Morid Otoliths, Caudal Skeletons, and the Fossil Record. Fishery Bulletin, 70(3):565-584.
- Fritzsche, Ronald A. 1980. Revision of the Eastern Pacific Syngnathidae (Pisces: Syngnathiformes), including both Recent and Fossil Forms. Proceedings of the California Academy of Sciences, 42(6):181-227.
- Howard, Hildegarde. 1962. A New Miocene Locality Record for *Puffinus diatomicus* and *Sula willetti*. Condor, 64(6):512-513.
- Howard, Hildegarde and John A. White. 1962. A Second Record of *Osteodontornis*, Miocene 'Toothed' Bird. Natural History Museum of Los Angeles County, Contributions in Science, 52:1-12.