LGL Limited, environmental research associates 1101 E. 76<sup>th</sup> Ave, Suite B Anchorage, AK, 99518 USA

31 August 2009

Lamont-Doherty Earth Observatory 61 Route 9W, P.O. Box 1000 Palisades, NY, 10964-8000

## Re: Toomey Week 1 Monitoring Report for 22-30 August 2009

Dear Meagan,

The *Marcus G. Langseth* left port on 22 August and visual observations commenced on 23 August 2009. During the period 22-30 August, the marine mammal observers (MMOs) on the *Langseth* conducted ~100.5 h of observations; most observations (~61 h) took place during seismic acquisition (Table 1). One marine mammal sighting was made during this period (Table 2). No sightings occurred during seismic periods; thus, no shut downs or power downs of the airgun array were required. Beaufort wind force (sea state; Bf) during observations aboard the *Langseth* ranged from 2 to 6 within the study area, with 17.3% of the total effort (in h) occurring during conditions of Bf  $\leq$  3 and visibility  $\geq$  6 km.

Passive Acoustic Monitoring (PAM) took place for a total of ~89.8 h; most PAM effort (~88 h) occurred during seismic operations (Table 1). There were no acoustic detections made during this period.

Date 2009	Visual effort (h)		PAM* effort (h)	
	Seismic	No Seismic	Seismic	No Seismic
22 August	Transit to study area- no effort		Transit to study area – no PAM	
23 August	0	3.43	0	0
24 August	0	14.22	0	0
25 August	0	14.05	0	0
26 August	6.53	7.42	9.42	1.7
27 August	13.57	0	16.12	0
28 August	13.78	0	14.57	0
29 August	13.90	0	24	0
30 August	13.58	0	24	0
Totals	61.4	39.1	88.1	1.7

Table 1: Monitoring	g Effort during	L-DEO's Toor	nev survev. We	ek 1, 22-30 August 2009

\* PAM summary by G. Caltavuturo, Right Waves.

Table 2: Sightings during L-DEO's Toomey Survey, Week 1, 22-30 August 2009

Date 2008	Time (Local)	Species	Number of Animals	During Seismic?
25 Aug.	13:18	Pacific White-Sided dolphins	10	No

Sincerely yours,

Joseph Beland

LGL LIMITED, environmental research associates

MMOs: Joseph Beland, Giovanni Caltavuturo, Brad Dawe, Kyla Graham, Megan Meyer, John Nicolas