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MEMORANDUM

DATE: October 11, 1996

TO: Christi Davis, United States Navy, Northern Division Naval Facilities Engineering Command

FROM: Allen Stamp/Barry Kline, Fluor Daniel GTI

THROUGH: *Kirti Shah*
Kirti Shah, Foster Wheeler Environmental Corporation

RE: Monthly Operations Summary for the Month of September 1996
Dolphin Mart and NEX Sites
Naval Submarine Base New London
Groton, CT

This memorandum serves to summarize the operational activities at the subject sites during the month of September 1996. Attachment 1 contains a summary of the weekly field activities conducted at the Dolphin Mart and NEX sites. Attachment 2 provides carbon breakthrough matrix for both DM and NEX sites.

**Attachment 1
Activity Summary**

**Groton Naval Submarine Base
Groton, Connecticut**

Week Ending	Site	Period	Field Activities¹	Comments
9/06/96	Dolphin Mart	Bi-weekly Maintenance	Conducted Bi-weekly system check. Conducted change-out of twelve carbon drums.	Removed faulty flowmeter sensor. SVE/air sparge system deactivated.
	NEX		Conducted Bi-weekly system check.	SVE/air sparge system operating normally.
9/13/96	Dolphin Mart	Bi-weekly Maintenance	No Field Activity.	SVE/air sparge system inactive due to faulty flowmeter sensor.
	NEX		Attended on-site meeting with Lt. Wiersma, Bill Hayward and Frank McElroy (parks and Rec.) to discuss OT-8 product recovery system installation.	SVE/air sparge system operating normally. Agreed to September 25, 1996 installation start date for OT-8 product recovery system.
9/20/96	Dolphin Mart	Bi-weekly Maintenance	No Field Activity.	SVE/air sparge system inactive due to faulty flowmeter sensor.
	NEX		Conducted Bi-weekly system check. Attended facility operations meeting with LT. Wiersma and Bill Hayward. Envirotrol contacted to supply replacement liquid phase carbon unit.	SVE/air sparge system operating normally. Noticed rust holes in liquid phase GAC unit, resulting in leakage.
9/27/96	Dolphin Mart	Bi-weekly Maintenance	No Field Activity.	SVE/air sparge system inactive due to faulty flowmeter sensor.
	NEX		Held field meeting with technicians at NEX site to discuss OT-8 product recovery system installation project. Held Pre-construction meeting with technicians, Dicin Electric, Bill Hayward and Craig Goulet. Performed product bail-down test on MW-7.	SVE/air sparge system operating normally.
10/4/96	Dolphin Mart	Bi-weekly Maintenance	Installed air flow meter and restarted SVE and Air Sparge systems. Conducted Bi-weekly system check.	SVE/air sparge system operating normally.
	NEX		Completed OT-8 product recovery system installation. Conducted OT-8 product recovery system start-up. Conducted Bi-weekly system check. Conducted OT-8	SVE/air sparge system operating normally. OT-8 product recovery system operating normally.

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Activity Summary**

**Groton Naval Submarine Base
Groton, Connecticut**

Week Ending	Site	Period	Field Activities¹	Comments
			product recovery system check. Collected soil samples from OT-8 installation soil pile.	

Note: ¹ Bi-weekly operation and maintenance tasks include well gauging and system monitoring.

Attachment #2

Carbon Breakthrough Matrix
Dolphin Mart and NEX Site

Groton Naval Submarine Base
Groton, CT

Carbon Breakthrough (#) ¹	Sample Date	Sample Time	Influent Conc. (ppmv, PID)	Effluent Conc. (ppmv, PID)	Influent Conc. (ppmv, PGC)	Effluent Conc. (ppmv, PGC)	SVE System Flow Rate (scfm)	Air Sparge System Flow Rate (scfm)	Estimated Breakthrough Time (hours)	Comments
2	7-2-96	17:05	66	8.1	230	50	452	25	15.75	Dolphin Mart Site
	7-3-96	8:50	375	289	380	320	448	33		
3	7-11-96	15:10	204.8	0	274	0.0	449	25	16.33	Dolphin Mart Site
	7-12-96	7:30	534	268	318	206	450	37		
4	7-12-96	9:55	588	15	NS	NS	450	30	21.33	Dolphin Mart Site. System deactivated 7/12/96 15:55 for weekend.
	7-15-96	18:10	366	0.0	NS	NS	449	16		
	7-16-96	9:30	149	77	250	88	442	24		
5	7-19-96	11:30	105	0	NS	NS	440	16	25.83	Approx. 1 hour test-only on 7/19/96.
	7-22-96	10:30	142	0	NS	NS	445	15		
	7-23-96	11:20	215	75	NS	NS	449	20		
6	7/24/96	9:45	96	0	NS	NS	450	16		Dolphin Mart Site.

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	7/25/96	17:45	84.6	0	NS	NS	446	17	40	System down up to 8 hrs on 7/19/96 for electrical work.
	7/26/96	11:45	275	192	NS	NS	442	21		
7	8/1/96	6:20	83.9	0	NS	NS	447.7	20	48	Dolphin Mart Site. Carbon loading test shut down for weekend 8/2/96.
	8/2/96	15:30	68	0	NS	NS	451	33		
	8/5/96	16:00	102	0	NS	NS	456	29		
	8/6/96	17:45	77.8	5.2	NS	NS	450	33		
	8/7/96	20:00	100.3	12.0	NS	NS	452	22		
	8/8/98	9:15	122.6	74.2	NS	NS	453.5	32		
8	8/1/96	6:50	6.6	4.5	NS	NS	116	0	NEX Site. A/B Carbon Units.	
	8/2/96	15:00	33	7.2	NS	NS	68.5	0		
	8/5/96	15:45	0	0	NS	NS	166	0		
	8/6/96	17:10	3.1	4.0	NS	NS	137	0		
	8/7/96	17:00	2.0	3.3	NS	NS	158	0		

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	8/8/96	9:45	2.3	3.5	NS	NS	135	0	290	
	8/12/96	14:00	65.4	47.6	NS	NS	262	0		
9	8/1/96	6:50	44	8	NS	NS	116	0	189	NEX Site. C/D Carbon Units.
	8/2/96	15:00	46.5	9.1	NS	NS	68.5	0		
	8/5/96	15:45	100	15.8	NS	NS	166	0		
	8/6/96	17:10	60	24.0	NS	NS	137	0		
	8/7/96	17:00	50.6	34	NS	NS	158	0		
	8/8/96	9:45	54.4	44	NS	NS	135	0		
10	8/22/96	12:00	120	0.0	NS	NS	448	30	116	Dolphin Mart Site. C/D Carbon Units
	8/24/96	12:30	141	55	NS	NS	445	35		
11	8/22/96	16:00	29	0.0	NS	NS	232	0		NEX Site. C/D Carbon Units. Carbon units taken off-line 9/4/96.
	8/27/96	9:20	36	12	NS	NS	228	0		
	8/30/96	14:40	26	24	NS	NS	108	0		

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	9/4/96	16:00	49	NA	NS	NS	330	0	NA	
12	9/27/96	12:45	68	1.0	NS	NS	450	32	NA	Dolphin Mart Site. C/D Carbon Units. Units still in service.

Notes: 1 The initial carbon breakthrough (not included in this table) occurred during OHM's start-up activities.

- ppmv = parts per million by volume
- PID = photoionization detector
- PGC = portable gas chromatograph
- NS = not sampled