

City of Pismo Beach

Addie Street Lift Station



draft

Final Report

**Prepared By WALLACE GROUP, a California Corporation
San Luis Obispo, CA**

June 30, 2004



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Statement of Purpose

The project's main purpose was to address the reliability of the pumping at the Addie Street Lift Station located adjacent to Pismo Creek and Pismo Beach. By accomplishing this purpose, the project would enable the reduction of bacterial levels at both Pismo and Oceano Beach. Installation of a modern and reliable pumping system eliminates the potential for inadvertent raw sewage discharges to the ocean and protects the beneficial uses at Pismo Beach.

Scope of Project

The original lift station was part of the City's overall sewer collection system. The lift station was built in 1952 and subsequently modified as needed. This lift station was almost 50 years old and undersized for peak wet weather conditions. Although inspections and maintenance were routinely performed on the lift station, it has proven on numerous occasions to be unreliable and under capacity. The inability to pump peak flows has resulted in sewage spills that have periodically entered Pismo Creek and subsequently flowed to the Pacific Ocean. As a result of the spills, the City was required to post sewage spill signs on the banks of Pismo Creek. These spills also resulted in beach closures for Pismo Beach and Oceano Beach. The spills were a violation of the City's NPDES Permit. As a result of the periodic accidental spills, the Central Coast RWQCB ordered the City to provide permanent emergency standby pumping capacity to accommodate the wet weather flows and to identify and correct deficiencies in the wastewater system. Because of the age of the pumps as well as the lack of availability of replacement parts, it became apparent that the old lift station would ultimately require major upgrades and improvements to be made.

The project included the design and construction of a new wastewater lift station to replace the existing Addie Street Lift Station. The project consisted of buried dual wet wells with dual wet well level measuring systems for pump system operations. The wet well includes four immersible pumps, a valve vault, and a 530 square foot control building with an MCC room, odor control equipment and generator room. The project also included work to demolish the old lift station.

The new Station provides the capacity to handle increased volumes of infiltration and inflow into the sanitary sewer system during heavy rain events. The lift station consists of dual wet wells equipped with three pumps, plus one standby pump, with level control devices to minimize the potential for sewage spills. A control building has been constructed to house the electrical controls, odor control equipment, and an emergency generator. The lift station is designed to a standard 30-year life.

Due to the projects close proximity to several prehistoric cultural sites, the project site was monitored by both an archeologist and a Native American during the construction excavation process. An on-site archeologist conducted a surface survey and review of past work in the Addie Street vicinity. The archeologist was able to determine that the construction of a lift station at this site would not have a direct impact on any known cultural resources.

Prior to the construction of the lift station, several field density/compaction tests were completed. The tested areas were to meet a minimum of 90 percent relative compaction, and any area not meeting this criteria were required to remove the existing material to allow for re-compaction. The final report shows that the majority of the area was “firm and unyielding”, however there were some areas that required re-compaction prior to completion.

Reconstruction of the Addie Street Lift Station addressed the unreliability of the existing station and provided pumping capacity adequate to service current and projected flows. To date, with the systems incorporated into the new lift station, overflow events have been eliminated which may contribute to the reduction of bacteria counts at nearby AB411 sampling locations (see Exhibit A for a comparison of old and new lift stations features).

Flows to the lift station have been reduced as a result of several projects completed prior to commencement of the Addie Street Lift Station project that combined, resulted in the redirection of 364,000 gallons of wastewater per day from Addie Street Lift Station to other lift stations within the City. With the redirection of these flows, the new lift station’s capacity relative to actual flows has significantly increased as compared to the old lift station. Because flows of the new lift station are less than that of the old lift station, flows to the new lift station accommodate a reduced pumping capacity and wet well capacity as shown in Exhibit A.

The Addie Street Lift Station is constantly monitored with the assistance of a Programmable Logic Controller (PLC) based Supervisory Control and Data Acquisition (SCADA) alarm system. Stand-by City personnel are available to respond to alarms within thirty minutes of notification. The system alarms for any of the following conditions:

- High Wet Well Level
- Low Wet Well Level
- Power Failure
- Pump Failure
- Air Scrubber Failure
- Variable Frequency Drive (VFD) Failure
- Communication Failure

In addition to alarming for the above listed conditions, the system is equipped to monitor influent flow, daily flow, max flow and can constantly monitor status, speed, runtime, starts and power for all four pumps and standby generator. The stations VFDs and ultrasonic level sensor coupled with PLC monitor and adjust pumping speed and runtime allowing the stations operating system to compensate for peak flows and any unusual flow events.

Task Products

The following documents have been submitted to SWRCB throughout the project:

Task	Deliverable	Due Date	Submission Date
1.2	Quarterly Progress Reports	6/30/2004	Quarterly
1.5	Contract Summary Form	7/10/2002	6/7/2002
1.6	Subcontractor Documentation	6/30/2004	6/7/2002
1.7	Project Survey Form	6/30/2004	5/14/2004
2.1	CEQA Documentation	6/30/2004	11/9/2001
2.2.1	Authority to Construct Permit	6/30/2004	6/7/2002
2.2.2	City of Pismo Beach. Grading Permit	6/30/2004	6/7/2002
3.1	Contract with DC	10/31/2001	6/7/2002
3.2	100% P&S Submittal	10/31/2001	9/10/2001
3.3	Proof of 40 Sets of Approved P&S for Distribution During Bidding Process, Contract	10/31/2001	6/7/2002
4.1	Contract with CC	6/30/2002	6/7/2002
4.2	Contract with CM	6/30/2002	6/7/2002
4.3	Contract with Geotechnical Firm	6/30/2002	6/7/2002
4.4	Contract(s) for Cultural Oversight	6/30/2002	6/7/2002
4.5	Report With Recommendations from Qualified Archaeologist	6/30/2002	6/7/2002
4.6	Completed Project Indicated by Pre and Post Photos and As Built Drawings	6/30/2002	6/19/2002
4.7	Notice of Completion and Formal Acceptance of the Project by the City	6/30/2002	6/10/2003
5.1	Monitoring and Reporting Plan	6/30/2003	5/14/2004
5.2	Draft Final Report	6/30/2003	5/14/2004
5.3	Final Report	6/30/2003	6/30/2004

Project Evaluation

As part of the Monitoring and Reporting Plan, the effectiveness of the new Addie Street Lift Station was monitored by comparing this historical spill data to any spills that occur at the new lift station and looking at AB411 data. Exhibit B provides a history of sewage spills that have occurred at the Addie Street Lift Station. Exhibit C shows the location of AB411 data sampling points, and Exhibit D shows the actual AB411 data collected. There have been no spills since the construction of the new lift station, therefore, it can be concluded that the lift station is no longer a contributing source to any increased bacterial levels found while sampling the Pismo Creek as well as the Pacific Ocean. The City of Pismo Beach is currently conducting a Supplemental Environmental Project, which includes source tracking any bacteria present in Pismo Creek, to determine if any elevation in bacteria is a result of animal or human contamination. This project has been approved by RWQCB and is currently in progress. San Luis Environmental Health

monitors the creek and ocean water weekly in this vicinity. Elimination of spills indicates that the Addie Street Lift Station is no longer a contributor to elevated bacteria levels at nearby AB 411 sampling locations.

Evaluation of operation and maintenance of the lift station and spill activity is continuously being summarized by the City on a monthly basis to evaluate effectiveness of the new lift station.

Background for Pismo State Beach, Addie Street Lift Station

2/20/96 – City of Pismo Beach, Sewage Spill Report, Addie Street Lift Station reported approximately 15,000 gallons of wastewater from lift station wet well manhole to street storm drain system and into Pismo Creek.

8/10/96 – City of Pismo Beach, Sewage Spill Report, Addie Street lift station reported approximately 1,000 gallons of wastewater to storm drain system and into Pismo Creek.

1/4/97 – City of Pismo Beach, Sewage Spill Report, approximately 75 gallons of wastewater from manhole vent to gutter storm drain system to Pismo Creek. The origin of the spill was at West end manhole at Park Street.

12/5/97 – City of Pismo Beach, Sewage Spill Report, Addie Street lift station was discovered to be overflowing at the rate of approximately 20 gallons per minute and Ocean View and Cypress Streets from manhole pick hole at the estimated flow rate of 10 gallons per minute. Sewage flowing from the manhole pick hole to the street gutter south to the storm drain system and into Pismo Creek.

12/11/97 – City of Pismo Beach, Sewage Spill Report, approximately 20,000 gallons of wastewater to storm drain system and into Pismo Creek. Occurred at 9:00 and again at 11:00 AM.

2/6/98 – City of Pismo Beach, Sewage Spill Report, approximately 5,000 gallons of wastewater from manhole to street gutter to storm drain system and into Pacific Ocean. The origin of the spill was at Cypress and Ocean View Streets, the interception sewer to the Addie Street lift station.

2/14/98 – City of Pismo Beach, Sewage Spill Report, approximately 5,400 to 7,200 gallons of wastewater from manhole to storm drain system and into Pismo Creek. The origin of the spill was at Cypress and Ocean View Streets, the intercepting sewer to the Addie Street lift station.

2/26/99 – Water Department personnel reported that Addie Street lift station was overflowing from the wet well onto Addie Street.

3/9/99 – Water Department personnel reported that Addie Street lift station was over flowing from the wet well onto Addie Street.

5/99 – Two portable (temporary) pumps were installed. Since then, there has been only one major spill.

2/13/00 – City of Pismo Beach, Sewage Spill Report, approximately 1,000-3,600 gallons of wastewater from manhole to street gutter to storm drain system at Cypress and Addie Street to Pismo Creek.

5/13/02 – City of Pismo Beach, Sewage Spill Report, approximately 5,000 gallons of wastewater from Addie Street lift station, through parking lot. Spill was contained on the pavement surface of the Addie parking lot and Street.

At the time of each of the spills outlined above, the City followed San Luis Obispo County Health regulations by disinfecting/chlorinating the effected areas and posting signs along the path of the spill as well as at both the creek and beach locations. Standard weekly samples were taken and analyzed by SLO County Health for bacteria content.

Conclusion

The project has been a success. Since its reconstruction, no spills have occurred at the Addie Street Lift Station and the station has performed well even during the City's busiest summer months. The design consisted not only of replacing the existing three pumps, but adding a fourth pump into the final design, increasing the redundancy and reliability, as well as accommodating a larger capacity. With no occurrences of spills, the lift station should no longer be considered a contributor if elevated bacteria levels are found at nearby AB 411 sampling locations.

Questions or comments related to this project or report may be addressed to the following:

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City of Pismo Beach
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CITY OF PISMO BEACH ADDIE STREET LIFT STATION SUMMARY			
		EXISTING LIFT STATION	FUTURE LIFT STATION
Pump Design Operating Point	gpm	1020	950
	TDH - ft	34	85
No. of Pumps		3	3 + 1standby ¹
Motor Size	HP	15	32.2
Total Peak Hour Design	MGD	-	4.1
Average Wastewater Flow	gpm	-	500 @ 27ft
Pumping Capacity	gpm	3060 ¹	2850 ^{1,2}
Pump Type		Allis Chalmers - dry pit, non-clog	Wemco - Screw Centrifugal
Pump Model		6x6x12 SC NSW	E5K-S Hidrostal
Wet Well dimensions	WxLxD	7.5ftx18.5ftx15ft	8.5ftx24ftx5.4ft
Wet Well Summary	gal	15,570	8,255
Year of Installation/Upgrade		Inst. 1952 / Upgrd 1980	Inst.2002
Standby Power		75KW	135KW
Drive Unit		Motor	Motor with VFD

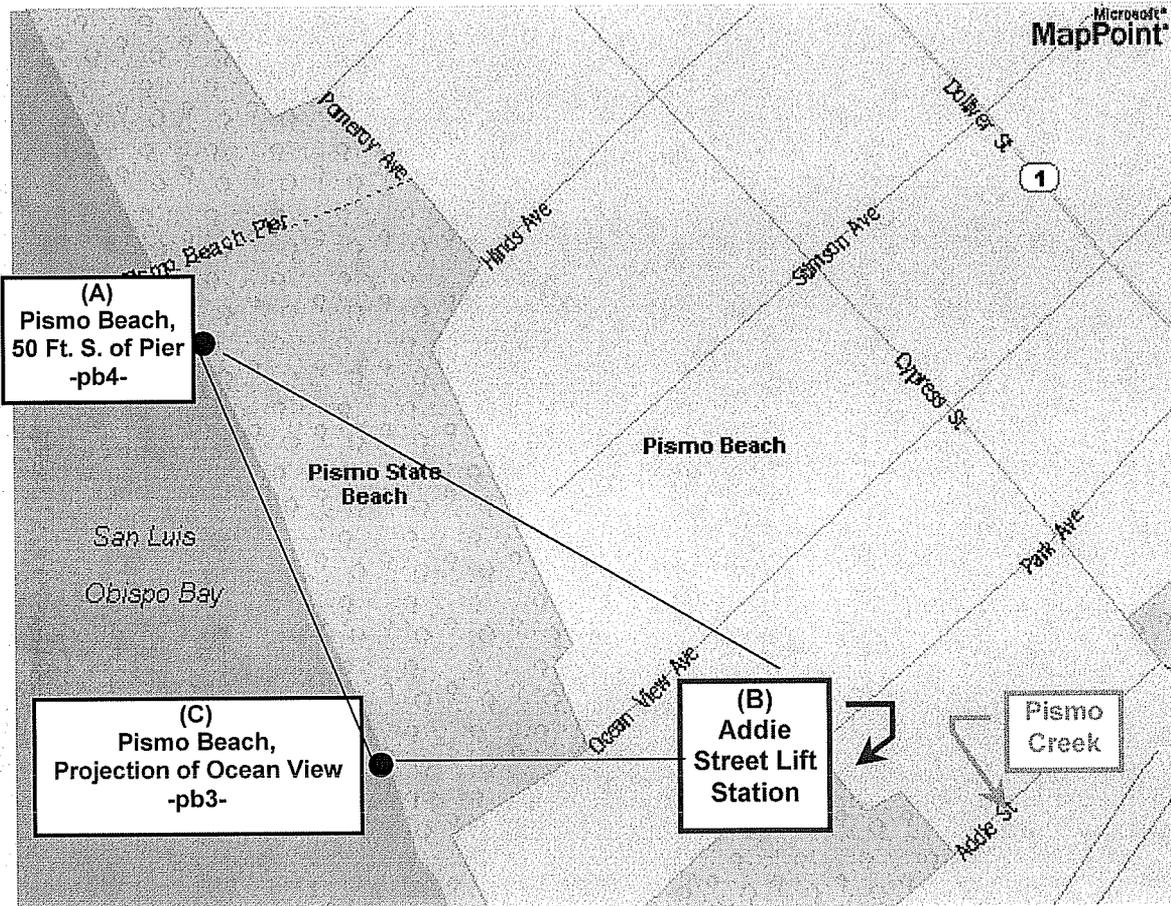
Note:

- 1) Provided to ensure increased reliability at the Addie Street Lift Station.
- 2) Some tributary flows have been re-directed (364,000 gpd - AAWF) to other lift stations. A total of 1,000 gpm of PHF have been re-directed. Therefore, a lower design flow required.

CITY OF PISMO BEACH ADDIE STREET LIFT STATION SPILL SUMMARY						
DATE	TIME	LOCATION	VOLUME OF SPILL (Gallons)	POSTING OF SIGNS	BEACH CLOSURE	
1996	8/10/1996 4:30PM	Addie Str L.S.	1,000	Yes	No	
	2/20/1996 8:50AM	Addie Str L.S.	approx 15,000	No	No	
1997	1/4/1997 10:40AM	Park Street	75	Yes	No	
	12/5/1997 10:00AM	Addie Str L.S.	2,730	Yes	No	
	12/11/1997 9:00AM	Addie Str L.S.	20,000	Yes	No	
	12/11/1997 11:00AM	Addie Str L.S.	20,000	Yes	No	
1998	2/6/1998 9:00AM	Cypress & Ocean View	5,000	Yes	No	
	2/14/1998 8:50AM	Cypress & Ocean View	7,200	Yes	No	
1999	2/26/1999 10:00AM	Addie Str L.S.	not recorded	Yes	No	
	3/9/1999 10:05AM	Addie Str L.S.	not recorded	Yes	No	
2000	2/13/2000 10:00AM	Cypress & Ocean View	1,000-3,600	Yes	No	
2002	5/13/2002 07:15 AM	Addie Str L.S.	not recorded	Yes	No	

Note:
1) Mobile Pump installed at Addie Street Lift Station in May 1999. Mobile Pump rated at 2000 gpm.

**Approximate Locations and Distances of Addie Street Lift Station,
Pismo Creek, and AB 411 Monitoring Locations**



Approximate Distances

- (A) to (B): 1450 ft
- (B) to (C): 1182 ft
- (C) to (A): 800 ft

CITY OF PISMO BEACH AB 411 DATA					Standards		
					10,000/100ml	400/100ml	104/100ml
Sample Date	Sample Site	TEST TYPE AND RESULTS			EXCEED STANDARDS		
		coliform	ecoli	enterococci	coliform	ecoli	enterococci
9/5/2000	pb3	73	51	<10	FALSE	FALSE	FALSE
	pb4	97	52	20	FALSE	FALSE	FALSE
9/13/2000	pb3	63	31	42	FALSE	FALSE	FALSE
	pb4	305	185	20	FALSE	FALSE	FALSE
9/19/2000	pb3	110	63	10	FALSE	FALSE	FALSE
	pb4	134	86	20	FALSE	FALSE	FALSE
9/26/2000	pb3	98	52	20	FALSE	FALSE	FALSE
	pb4	1354	1172	64	FALSE	TRUE	FALSE
10/2/2000	pb3	98	74	20	FALSE	FALSE	FALSE
	pb4	132	63	<10	FALSE	FALSE	FALSE
10/10/2000	pb3	253	185	75	FALSE	FALSE	FALSE
	pb4	345	132	111	FALSE	FALSE	TRUE
10/16/2000	pb3	238	10	53	FALSE	FALSE	FALSE
	pb4	691	41	20	FALSE	FALSE	FALSE
10/25/2000	pb3	987	90	58	FALSE	FALSE	FALSE
	pb4	323	201	51	FALSE	FALSE	FALSE
10/30/2000	pb3	233	110	53	FALSE	FALSE	FALSE
	pb4	171	52	10	FALSE	FALSE	FALSE
12/4/2001	pb4	717	272	344	FALSE	FALSE	TRUE
12/5/2001	pb4	20	<10	10	FALSE	FALSE	FALSE
12/10/2001	pb4	160	63	<10	FALSE	FALSE	FALSE
12/26/2001	pb4	52	10	31	FALSE	FALSE	FALSE
1/7/2002	pb4	51	10	<10	FALSE	FALSE	FALSE
1/22/2002	pb4	74	74	20	FALSE	FALSE	FALSE
2/4/2002	pb4	10	10	10	FALSE	FALSE	FALSE
2/19/2002	pb4	20	10	10	FALSE	FALSE	FALSE
3/4/2002	pb4	<10	<10	10	FALSE	FALSE	FALSE
3/18/2002	pb4	20	20	42	FALSE	FALSE	FALSE
4/4/2002	pb3	10	10	20	FALSE	FALSE	FALSE
	pb4	10	<10	<10	FALSE	FALSE	FALSE
4/10/2002	pb3	20	<10	10	FALSE	FALSE	FALSE
	pb4	98	86	10	FALSE	FALSE	FALSE
4/16/2002	pb3	10	<10	<10	FALSE	FALSE	FALSE
	pb4	20	10	<10	FALSE	FALSE	FALSE
4/23/2002	pb3	10	<10	10	FALSE	FALSE	FALSE
	pb4	41	20	<10	FALSE	FALSE	FALSE
4/30/2002	pb3	<10	<10	<10	FALSE	FALSE	FALSE
	pb4	20	20	10	FALSE	FALSE	FALSE
5/7/2002	pb3	20	20	53	FALSE	FALSE	FALSE
	pb4	74	<10	99	FALSE	FALSE	FALSE
5/14/2002	pb3	20	10	<10	FALSE	FALSE	FALSE
	pb4	31	20	31	FALSE	FALSE	FALSE

CITY OF PISMO BEACH AB 411 DATA					Standards		
					10,000/100ml	400/100ml	104/100ml
Sample Date	Sample Site	TEST TYPE AND RESULTS			EXCEED STANDARDS		
		coliform	ecoli	enterococci	coliform	ecoli	enterococci
5/21/2002	pb3	31	20	<10	FALSE	FALSE	FALSE
	pb4	160	121	<10	FALSE	FALSE	FALSE
5/28/2002	pb3	63	30	10	FALSE	FALSE	FALSE
	pb4	30	30	10	FALSE	FALSE	FALSE
6/4/2002	pb3	20	10	<10	FALSE	FALSE	FALSE
	pb4	189	63	31	FALSE	FALSE	FALSE
6/11/2002	pb3	160	74	<10	FALSE	FALSE	FALSE
	pb4	160	97	<10	FALSE	FALSE	FALSE
6/18/2002	pb3	74	63	10	FALSE	FALSE	FALSE
	pb4	52	41	<10	FALSE	FALSE	FALSE
6/25/2002	pb3	292	98	<10	FALSE	FALSE	FALSE
	pb4	2382	613	20	FALSE	FALSE	FALSE
7/2/2002	pb3	63	31	10	FALSE	FALSE	FALSE
	pb4	345	243	10	FALSE	FALSE	FALSE
7/9/2002	pb3	95	41	<10	FALSE	FALSE	FALSE
	pb4	52	41	<10	FALSE	FALSE	FALSE
7/16/2002	pb3	74	52	<10	FALSE	FALSE	FALSE
	pb4	373	168	<10	FALSE	FALSE	FALSE
7/23/2002	pb3	41	41	10	FALSE	FALSE	FALSE
	pb4	1259	650	<10	FALSE	TRUE	FALSE
7/24/2002	pb4	72	61	<10	FALSE	FALSE	FALSE
7/30/2002	pb3	10	10	<10	FALSE	FALSE	FALSE
	pb4	<10	<10	<10	FALSE	FALSE	FALSE
8/6/2002	pb3	253	119	10	FALSE	FALSE	FALSE
	pb4	231	231	10	FALSE	FALSE	FALSE
8/13/2002	pb3	74	31	10	FALSE	FALSE	FALSE
	pb4	63	41	<10	FALSE	FALSE	FALSE
8/21/2002	pb3	110	31	10	FALSE	FALSE	FALSE
	pb4	1014	537	20	FALSE	TRUE	FALSE
8/22/2002	pb4	637	175	<10	FALSE	FALSE	FALSE
8/27/2002	pb3	201	31	10	FALSE	FALSE	FALSE
	pb4	428	145	<10	FALSE	FALSE	FALSE
9/3/2002	pb3	10	<10	<10	FALSE	FALSE	FALSE
	pb4	10	10	<10	FALSE	FALSE	FALSE
9/10/2002	pb3	10	10	<10	FALSE	FALSE	FALSE
	pb4	10	<10	<10	FALSE	FALSE	FALSE
9/17/2002	pb3	135	10	10	FALSE	FALSE	FALSE
	pb4	243	161	<10	FALSE	FALSE	FALSE
9/24/2002	pb3	<10	<10	<10	FALSE	FALSE	FALSE
	pb4	<10	<10	<10	FALSE	FALSE	FALSE
10/1/2002	pb3	52	41	<10	FALSE	FALSE	FALSE
	pb4	52	20	<10	FALSE	FALSE	FALSE

CITY OF PISMO BEACH AB 411 DATA					Standards		
Sample Date	Sample Site	TEST TYPE AND RESULTS			10,000/100ml	400/100ml	104/100ml
		coliform	ecoli	enterococci	EXCEED STANDARDS		
					coliform	ecoli	enterococci
10/8/2002	pb3	121	41	31	FALSE	FALSE	FALSE
	pb4	84	41	20	FALSE	FALSE	FALSE
10/15/2002	pb3	109	20	<10	FALSE	FALSE	FALSE
	pb4	20	20	10	FALSE	FALSE	FALSE
10/22/2002	pb3	85	31	64	FALSE	FALSE	FALSE
	pb4	281	206	31	FALSE	FALSE	FALSE
10/29/2002	pb3	85	41	<10	FALSE	FALSE	FALSE
	pb4	134	97	<10	FALSE	FALSE	FALSE
11/12/2002	pb3	161	63	10	FALSE	FALSE	FALSE
	pb4	143	62	10	FALSE	FALSE	FALSE
12/23/2002	pb3	221	95	20	FALSE	FALSE	FALSE
	pb4	146	41	10	FALSE	FALSE	FALSE
1/28/2003	pb3	20	10	<10	FALSE	FALSE	FALSE
	pb4	143	86	20	FALSE	FALSE	FALSE
2/4/2003	pb3	213	160	<10	FALSE	FALSE	FALSE
	pb4	233	155	31	FALSE	FALSE	FALSE
2/10/2003	pb3	10	<10	<10	FALSE	FALSE	FALSE
	pb4	<10	<10	10	FALSE	FALSE	FALSE
2/18/2003	pb3	148	63	42	FALSE	FALSE	FALSE
	pb4	288	183	31	FALSE	FALSE	FALSE
2/25/2003	pb3	10	<10	20	FALSE	FALSE	FALSE
	pb4	134	86	10	FALSE	FALSE	FALSE
3/4/2003	pb3	<10	<10	<10	FALSE	FALSE	FALSE
	pb4	86	74	<10	FALSE	FALSE	FALSE
3/11/2003	pb3	20	20	<10	FALSE	FALSE	FALSE
	pb4	<10	<10	<10	FALSE	FALSE	FALSE
3/17/2003	pb3	243	20	20	FALSE	FALSE	FALSE
	pb4	512	249	20	FALSE	FALSE	FALSE
3/25/2003	pb3	20	10	<10	FALSE	FALSE	FALSE
	pb4	86	31	<10	FALSE	FALSE	FALSE
4/1/2003	pb3	20	10	<10	FALSE	FALSE	FALSE
	pb4	1259	1259	10	FALSE	TRUE	FALSE
4/2/2003	pb4	10	<10	<10	FALSE	FALSE	FALSE
4/8/2003	pb3	<10	<10	<10	FALSE	FALSE	FALSE
	pb4	85	52	10	FALSE	FALSE	FALSE
4/15/2003	pb3	97	85	<10	FALSE	FALSE	FALSE
	pb4	1313	1017	20	FALSE	TRUE	FALSE
4/16/2003	pb4	<10	<10	<10	FALSE	FALSE	FALSE
4/22/2003	pb3	31	31	10	FALSE	FALSE	FALSE
	pb4	20	20	20	FALSE	FALSE	FALSE
4/29/2003	pb3	1320	120	<10	FALSE	FALSE	FALSE
	pb4	31	20	<10	FALSE	FALSE	FALSE

CITY OF PISMO BEACH AB 411 DATA					Standards		
					10,000/100ml	400/100ml	104/100ml
Sample Date	Sample Site	TEST TYPE AND RESULTS			EXCEED STANDARDS		
		coliform	ecoli	enterococci	coliform	ecoli	enterococci
5/6/2003	pb3	72	<10	<10	FALSE	FALSE	FALSE
	pb4	<10	10	<10	FALSE	FALSE	FALSE
5/13/2003	pb3	10	10	<10	FALSE	FALSE	FALSE
	pb4	<10	<10	<10	FALSE	FALSE	FALSE
5/20/2003	pb3	98	63	<10	FALSE	FALSE	FALSE
	pb4	20	10	<10	FALSE	FALSE	FALSE
5/27/2003	pb3	31	20	20	FALSE	FALSE	FALSE
	pb4	109	109	87	FALSE	FALSE	FALSE
6/3/2003	pb3	231	189	10	FALSE	FALSE	FALSE
	pb4	73	73	<10	FALSE	FALSE	FALSE
6/10/2003	pb3	52	<10	<10	FALSE	FALSE	FALSE
	pb4	121	63	<10	FALSE	FALSE	FALSE
6/17/2003	pb3	10	10	<10	FALSE	FALSE	FALSE
	pb4	63	52	<10	FALSE	FALSE	FALSE
6/24/2003	pb3	20	10	<10	FALSE	FALSE	FALSE
	pb4	332	332	<10	FALSE	FALSE	FALSE
7/2/2003	pb3	318	269	<10	FALSE	FALSE	FALSE
	pb4	547	547	<10	FALSE	TRUE	FALSE
7/3/2003	pb4	1236	1081		FALSE	TRUE	
7/7/2003	pb4	359	341		FALSE	FALSE	
7/8/2003	pb3	63	52	<10	FALSE	FALSE	FALSE
	pb4	156	156	20	FALSE	FALSE	FALSE
7/15/2003	pb3	120	74	<10	FALSE	FALSE	FALSE
	pb4	20	10	<10	FALSE	FALSE	FALSE
7/22/2003	pb3	197	169	10	FALSE	FALSE	FALSE
	pb4	41	41	<10	FALSE	FALSE	FALSE
7/29/2003	pb3	10	10	10	FALSE	FALSE	FALSE
	pb4	20	10	<10	FALSE	FALSE	FALSE

Note:

- 1) Data Provided by San Luis Obispo County Environmental Health Department
- 2) Readings/Results per 100 ml

Addie Street Lift Station Project Time Frame: Dec. 15, 2001 thru June 10, 2003

Appendix