ATTACHMENT II

August 7, 2006 Settlement Proposal and Supporting Documents

Settlement Proposal

a. Lewis Brisbois Bisgaard & Smith LLP August 7, 2006 Letter

b. North Tahoe Public Utility District August 7, 2006 Cover Letter and Technical Specifications

c. Lewis Brisbois Bisgaard & Smith LLP August 31, 2006 Letter

Supporting Document

d. North Tahoe Public Utility District August 21, 2006 Document

ATTACHMENT II.a

Lewis Brisbois Bisgaard & Smith LLP
August 7, 2006 Letter

LEWIS BRISBOIS BISGAARD & SMITH LLP

ATTORNEYS AT LAW

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August 7, 2006

FILE NO.
25116-23

CONFIDENTIAL SETTLEMENT PROPOSAL

VIA E-MAIL & U.S. MAIL

Steven H. Blum, Senior Staff Counsel
STATE WATER RESOURCES
CONTROL BOARD
Office of Chief Counsel
1001 "I" Street
Sacramento, California 95814-2828

Neil Eskind, Esq.
1345 North Lake Boulevard
P.O. Drawer Z
Tahoe City, California 95730

Re: LRWQCB Administrative Civil Liability Complaint #R6T-2005-029
North Tahoe Public Utility District v. Pacific Built, Inc., et al.
Placer County Superior Court Case No.: TCV 1122 [Tahoe Division]

Dear Messrs. Eskind and Blum:

As you know, the hearing on the LRWQCB's Administrative Civil Liability Complaint will re-commence on October 11, 2006. Additionally, there is currently pending the above-described Placer County Superior Court case filed on behalf of the North Tahoe Public Utility District (NTPUD).

On July 26, 2006, we were all present at the LRWQCB's hearing and, on behalf of Pacific Built, Inc. and the Davis and Coffeng families we requested a continuance of the hearing in order to more fully explore a Supplementary Environmental Project (SEP) which would be acceptable to the Regional Board and the NTPUD. The continuance was granted.

We subsequently received a letter from the Board Staff setting an August 9, 2006 deadline for submission of a proposed SEP to the prosecution team.

Please consider this letter as the Pacific Built, Inc./Davis/Coffeng SEP proposal and proposal to globally resolve both the pending ACL proceeding as well as the pending NTPUD

Placer County Superior Court action described above. For many reasons which cannot be described herein, it is a condition of the proposal that a global resolution be agreed upon.

You should be advised that this letter is to be considered a confidential settlement proposal and that the provisions of Evidence Code section 1152 and other law which may apply to administrative proceedings is considered to be in force. Depending on circumstances, we may grant consent to disclose its contents to Harold Singer and other members of the Advisory Team. The request for such disclosure must be made in writing or by e-mail.

The SEP proposed by Pacific Built, Inc./Davis/Coffeng consists of the purchase of a sewer bypass hose reel system from the North American Fire Hose Corporation, The hose reel system would be made available by NTPUD to all agencies within the Tahoe Basin and will provide significant benefit to the basin as it gives all agencies the capability of bypassing segments of force mains and other facilities in the event of disruptions in various systems.

The cost of the hose reel system is $298,160. Additional details concerning the equipment to be provided are described in a June 22, 2006 letter from Neil Eskind, a copy of which is attached hereto. You will see that the system consists of very significant lengths of bypass hose as well as other equipment.

It is our understanding that Mr. Eskind has the technical specifications for the system and will be providing those specifications and other pertinent information to you within the next few days.

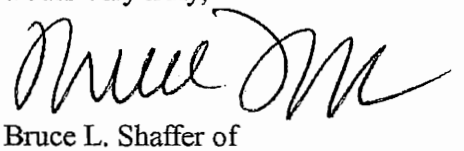
In addition to providing the above-described hose reel system, a payment of $26,840 would be made to the Regional Board.

The proposal, if accepted, would resolve both the LRWQCB Administrative Civil Liability action and the NTPUD's Placer County Superior Court case in their entirety. Appropriate closing documentation would be required, including formal documentation of the settlement with the Board in appropriate form, dismissal with prejudice of the NTPUD's entire complaint (including the claims against the architect) and releases in standard form. In other words, the proposal contemplates a global and complete resolution all parties of these two proceedings.

We would appreciate your favorable consideration. You can rest assured that a substantial amount of effort has been made to move Pacific Built and the Davis and Coffeng families into position to enable them to make this proposal.

Thank you and we look forward to hearing from you shortly.

Yours very truly,



Bruce L. Shaffer of
LEWIS BRISBOIS BISGAARD & SMITH LLP

BLS/pea
Enclosure(s): As indicated above.
cc: Drew Briner (w/enc.)
Tom Ragan, Pacific Built, Inc.,(w/enc.)
Mark Hudak, Carr McClelland, et al., (w/enc.)
James R. Donahue, Caulfield, Davis & Donahue, (w/enc.)

NEIL A. ESKIND
Attorney at Law

1345 North Lake Boulevard
Post Office Drawer Z
Tahoe City, California 96145-1906

530-583-5536
Fax: 530-583-8880
Email: eskind@tahoecity.com

June 22, 2006

Bruce L. Shaffer
Attorney at Law
Lewis Bisbois Bisgaard & Smith LLP
2500 Venture Oaks Way, Suite 200
Sacramento, CA 95833

Via email to shaffer@lbbslaw.com

Re: July 19, 2005 Sewer Spill

Dear Bruce,

For your information, the specifications for the Hose Reel System are as follows:

1 ea Base Trailer System w/Two (2) A-Frame Auxiliary Reels

3300' (5/660') 10" Wasteline 600 Green w/Field Attach Vict ends

525' (1/525') 10" Wasteline 600 Green w/Field Attach Vict ends

600' (1/600') 8" Wasteline 600 Green w/Field Attach Vict ends

1 ea 10" Alum – Mender

2 ea HRC-B Hose Reel Protective Cover – Blue

2 ea #741-10 Adapter 10" Vict X Flange

Including CA State Sales Tax and Freight to 875 National Ave., Tahoe Vista CA 96148

The total cost of the above is $298,160.

I am informed that the length of hose in this system gives the District the capability of bypassing the longest segment of force main within the NTPUD service area, except for the Dollar Force Main where redundant force mains already exist. This includes bypassing all the near shore force main and pump station facilities, the latter with the use of the District's existing sewage bypass pump.

The system supplier is North American Fire Hose Corporation, Portable Pipeline Systems. The contact person is David Jackson, Sales Manager – Western Region, in Huntington Beach, CA, telephone 714-840-3740.

As per our telephone conversation, I put in a call to David Jackson to let him know that you would be calling and that he could provide you any information you needed. I reached his answering system and left my telephone number, so as of the time I am sending you this I have not had any contact with him.

Please let me know if I can provide anything further.

Sincerely yours,

Neil A. Eskind

NAE:c

ATTACHMENT II.b

North Tahoe Public Utility District
August 7, 2006 Cover Letter and
Technical Specifications

NORTH TAHOE PUBLIC UTILITY DISTRICT

August 7, 2006

Mr. Robert S. Dodds
Assistant Executive Officer
Regional Water Quality Control Board
Lahontan Region
2501 Lake Tahoe Boulevard
South Lake Tahoe, California 96150

Re: Regional Board ACL Complaint No. R6T-2005-0029 (C. Geoffrey and Christine Davis, Hans and Margaret Coffeng, and Pacific Built, Inc.)

Dear Bob,

Enclosed you will find a detailed Report and Description of Supplemental Environmental Project Relative to R6T-2005-0029. This is being submitted pursuant to Eric Taxer's telephone call to North Tahoe Public Utility District General Manager Steve Rogers on the afternoon of July 26 inviting the NTPUD to resubmit information relative to the Hose Reel System SEP.

You will note that the Report includes a detailed analysis of how the state of the art sewer bypass hose reel system will operate to prevent and reduce pollution and confirms the regional need for such a piece of equipment through letters of support from the Tahoe City Public Utility District and the Incline Village General Improvement District as requested by Eric.

In addition, on August 7, 2006, counsel for Pacific Built, Inc., Mr. and Mrs. Davis and Mr. and Mrs. Coffeng by letter to my office and Steven Blum proposed a settlement which includes agreement to a $325,000 package incorporating the SEP suggested by the NTPUD. Counsel for Pacific Built, Inc., Mr. and Mrs. Davis and Mr. and Mrs. Coffeng has also requested that the attached Report be treated with the same confidentially requested in their letter.

PO Box 139, Tahoe Vista, CA 96148 • (530) 546-4212 • FAX (530) 546-2652 • 875 National Ave.
e-mail: ntpud@ntpud.org • website: www.ntpud.org

NTPUD staff looks at the settlement proposal as a significant positive development worthy of serious consideration. Its acceptance would lead to a speedy conclusion to the various pending events at the numeric level proposed by your team without further objections or arguments.

We have attempted to make the Report detailed and complete. The NTPUD is confident that there will be universal support for the acquisition of the equipment from the sewer collection and transportation community of agencies and that it would become one of the most valuable tools for preventing and reducing pollution within our region. If you have any questions or require anything additional, please let me know.

Sincerely yours,

Neil A. Eskind

NAE:c
cc: Steven R. Rogers, General Manager/CEO
enclosure

NORTH TAHOE PUBLIC UTILITY DISTRICT

August 7, 2006

Report and Description of Supplemental Environmental Project Relative to R6T-2005-0029

The North Tahoe Public Utility District is pleased to submit information and material relative to a Supplemental Environmental Project (SEP) proposed to be incorporated in and become part of the resolution of Regional Board ACL Complaint No. R6T-2005-0029 (C. Geoffrey and Christine Davis, Hans and Margaret Coffeng, and Pacific Built, Inc.).

As is noted herein, this proposed SEP has the following characteristics and benefits to the environment:

1. The SEP is a unique, state of the art, piece of equipment which will provide with certainty a measurable environmental benefit to Lake Tahoe.

2. The SEP meets the General SEP Qualification Criteria set forth by the State Water Resources Control Board.

3. The SEP has regional support, including written support from the Tahoe City Public Utility District and the Incline Village General Improvement District.

4. The SEP has the support of the North Tahoe Public Utility District.

5. The SEP has been formally proposed by Mr. and Mrs. Davis, Mr. and Mrs. Coffeng and Pacific Built, Inc. pursuant to a letter dated August 7, 2007.

This Report is divided into the following Sections, with supporting Appendices:

1. A description of the SEP, including a detailed product description and literature in an attached Appendix.

2. Analysis of the SEP's environmental benefit to Lake Tahoe, including a copy of the Tahoe Truckee Area Emergency Contingency Plan Agreement for Mutual Emergency Aid and Recommendations from the *Lake Tahoe Basin Framework Study, Wastewater Collection System Overflow/Release Reduction Evaluation*, US Army Corps of Engineers, April 2003, in attached Appendices.

PO Box 139, Tahoe Vista, CA 96148 • (530) 546-4212 • FAX (530) 546-2652 • 875 National Ave.
e-mail: ntpud@ntpud.org • website: www.ntpud.org

3. An analysis detailing the SEP's conformance to the State Water Resources Control Board General SEP Qualification Criteria with the full General SEP Qualification Criteria in an attached Appendix.

4. Letters of regional support, including details on specific benefits the SEP would provide.

1. Summary of Sewer Bypass Hose Reel System SEP

A. Summary Description of Project:

Although based upon the newest evolving technology, the concept is very straightforward. A trailer mounted hose reel system holds easily and quickly deployable 660 foot lengths of strong and durable hose capable of transporting sewage at rates in excess of 1,600 gallons per minute when used in combination with existing pumps.

The benefits of the system include:

1. The system features rapid deployment. 1,000 feet of bypass hose can be deployed in under 8 minutes.
2. The hose is in modular 660 foot sections which can be interconnected in minutes. Sections can be field cut and fittings installed in minutes to accommodate all length requirements without damage to the hose.
3. The hose is lightweight when empty and can be easily adjusted by one person.
4. The hose is flexible and can be deployed over difficult terrain, including hillsides, without requiring bedding.
5. The hose does not require pressurization prior to use and, once deployed and connected to existing pumps through standard fittings, can be placed in service immediately.
6. The system is trailer mounted, allowing fast transport to the scene of an incident.

These attributes make such equipment particularly useful for a small crew deployment and use, substantially decreasing the time to initiate an emergency bypass operation.

The proposed sewer bypass hose reel system would include the following at an estimated cost of $298,160 based on current research and quotes of prices to the District:

Base Trailer System
Power Package
Two A-Frame Reel System
Lifting Bar

3,825 feet of 10" hose, 600 feet of 8" hose with couplings, mending accessories, and protective covers.

Technical specifications and product literature on the proposed hose bypass reel system are included in Appendix A.

The system was designed to meet the needs of all but the most extreme situations which could occur within the regional area. Presently, such a system does not exist within the Lake Tahoe basin area and this type of equipment and trained personnel are not available for use in an emergency through the regional mutual aid area[1].

B. Applications for the SEP

(1) Emergency Bypass Operations

Deployment of the sewer bypass hose reel bypass to locations of pipe damage will substantially decrease the amount of sewage discharged from line breaks thereby helping to protect the environment and water clarity of Lake Tahoe.

(2) Planned Maintenance Operations

Use of the bypass will allow activities such as sewer main inspections, sewer main replacement projects, repair of third party damage to a sewer mains, manhole repair or replacement, pump station repairs, provision of redundant capacity in high risk situations, and damage or repair to sections of force mains.

(3) Regional and Mutual Aid Use

Once acquired, the equipment becomes part of the inventory available as part of the regional mutual aid system to all collection entities in the area. These other agencies will have the ability to use the equipment in the same manner detailed above. A very important attribute of the equipment is that is a modular system. As other regional needs arise, other agencies can augment the system by purchasing additional sections of hose and accessories, further increasing the protection of the waters of Lake Tahoe and meeting the recommendations of the US Army Corps of Engineers Study. This SEP has every potential for being the starting point for a regionally distributed state-of-the-art pollution elimination system designed to provide maximum emergency protection and maintenance capability.

Letters of support from other agencies for this SEP have been obtained and are found in Section 4 below.

[1] The Truckee Sanitary District has a 1,700-foot length of 6" hose which, while suitable for its design needs, is not adequate for the type of circumstances this SEP is designed to address. Due to the modular nature of this SEP system, its shorter and smaller hose can be interconnected with the larger, more robust hose in this SEP to increase versatility.

2. Analysis of Sewer Bypass Hose Reel System's Environmental Benefit to Lake Tahoe

A. Existing Bypass Systems in Use Throughout the Lake Tahoe Basin

To better understand the District's interest in the proposed hose bypass system, a comparison of the current approach used for sewer bypass operations and the proposed hose reel bypass system is helpful.

The first line of sewer line bypass technique now the standard approach throughout the region is the use of Vacuum (Vactor) and Tank Truck brigades[2]. This approach has certain difficulties as follows:

1. Obtaining the appropriate number of vacuum and tank trucks requires activation of the mutual aid system and the use of private haulers. There is a risk that sufficient resources may not be available.

2. It can take considerable time to marshal and deploy the necessary vehicles to the incident site in an emergency situation, particularly during weekend and night periods. It is estimated that the time delay before commencement of a bypass operation is approximately 3.5 hours and that full bypass capability requires an additional 1.5 hours after the operation is started, resulting in 5 hours before full bypass capacity is reached.

3. Due to physical constraints, there is a practical limit of about 800 gallons per minute bypass capability using vacuum and tank trucks. Currently, any bypass above that number will require installation of a rigid pipeline.

Where the trucking approach will not handle the volume, the only available solution is the use of a temporary rigid 12-inch aluminum pipeline. This also has certain difficulties as follows:

1. The NTPUD has 1,500 feet of this rigid pipeline with another 2,500 available on call from the Tahoe-Truckee Sanitation Agency. The pipeline is in 40-foot sections and must be moved incrementally on available trailers.

2. This application is very labor intensive and time consuming for installation. The pipeline must be bedded, joined together and pressurized before use. As such, its use is primarily for planned maintenance activities where there is the time available

[2] Much has been said about the function of a circle clamp as a defense. While useful in many instances as a temporary fix pending the bypass which is thereafter necessarily required to effect a permanent repair, the use of a circle clamp is inappropriate in situations where the damage cannot be evaluated sufficiently to determine its propriety, the subject pipe is not of constant diameter at the point of damage or its installation would place personnel at risk due to the possibility of unstable earth. The use or nonuse of a circle clamp does not affect the value of the Sewer Bypass Hose Reel System as a substantial environmental improvement over current bypass technology.

to install the bypass. In an emergency situation, installation of this type of bypass actually diverts resources from the emergency repair and remediation. In addition, there is the possibility of leakage from the joints at each pipe section interval.

3. The time to move, assemble, pressurize and place a 3,000-foot length of aluminum pipeline in use as a bypass is estimated to be 17 hours.

B. Reduction in Discharges Expected Through Deployment of Sewer Bypass Hose Reel System Technology

In contrast to the shortcomings of the vacuum and tanker truck or rigid pipe solutions, the flexible sewer bypass hose reel system offers many advantages and environmental benefits. These are:

1. The system can be moved on one trailer and, once on site, rapidly deployed.

2. Terrain is not an issue.

3. Once deployed it can be placed in service immediately without excessive joining of sections together or pressurizing.

4. The time from initial call to full bypass capacity for a 3,000-foot bypass is estimated to be under 2 hours.

5. Once the need for the bypass is over, retraction is simple and fast, thereby freeing up staff for any necessary remediation tasks.

Two examples of expected reductions in discharges are detailed below. Example 1 is modeled after the July 19, 2005 incident. Example 2 is modeled after an event with an average 1,000 gallon per minute discharge, larger than can be remedied by the use of vacuum and tanker trucks alone, thereby requiring the use of the rigid aluminum pipeline.

Example 1:

Figure 1 models the July 19, 2005 event, showing the average discharge over the approximate 4.5 hours the bypass operation too. The total discharge is shown on Line 1 on Table 2 as being 56,000 gallons.

Figure 2 models the July 19, 2005 event as if the sewer bypass hose reel system had been available. It shows that the bypass would have been accomplished in 2 hours, reducing the total discharge to 29,400 gallons as shown on Line 2 of Table 2. This represents a 47% reduction in discharge over present methodology by having the more efficient and quicker bypass afforded by the hose reel system.

Example 2:

Figure 3 models a larger event with a 1,000 gallon per minute breach. It shows the use of vacuum and tanker trucks to bypass the first 800 gallons per minute and the concurrent installation of rigid pipeline to bypass the balance. Because of the long installation time of the rigid pipeline the total discharge, as shown on Line 3 of Table 2, is 408,000 gallons, a major pollution event.

Figure 4 models the larger event with the use of the sewer bypass hose reel system. It shows that the hose reel system bypass was installed and operable in 2 hours with the capability of bypassing all the discharge. Line 4 on Table 2 shown that the total discharge would have been reduced to 120,000 gallons, a 70% reduction over present methodology through the use of the hose reel system.

The conclusions to be reached by these examples is that the sewer bypass hose reel system represents a substantial environmental benefit by reducing the amount of pollution over current methodology.

Figure 1

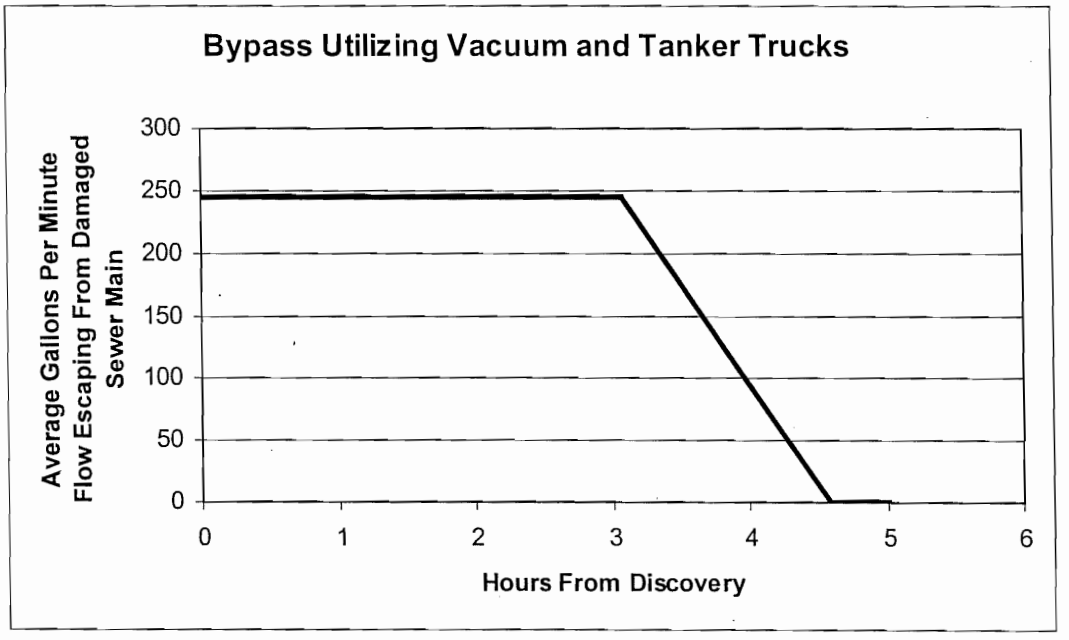


Figure 2

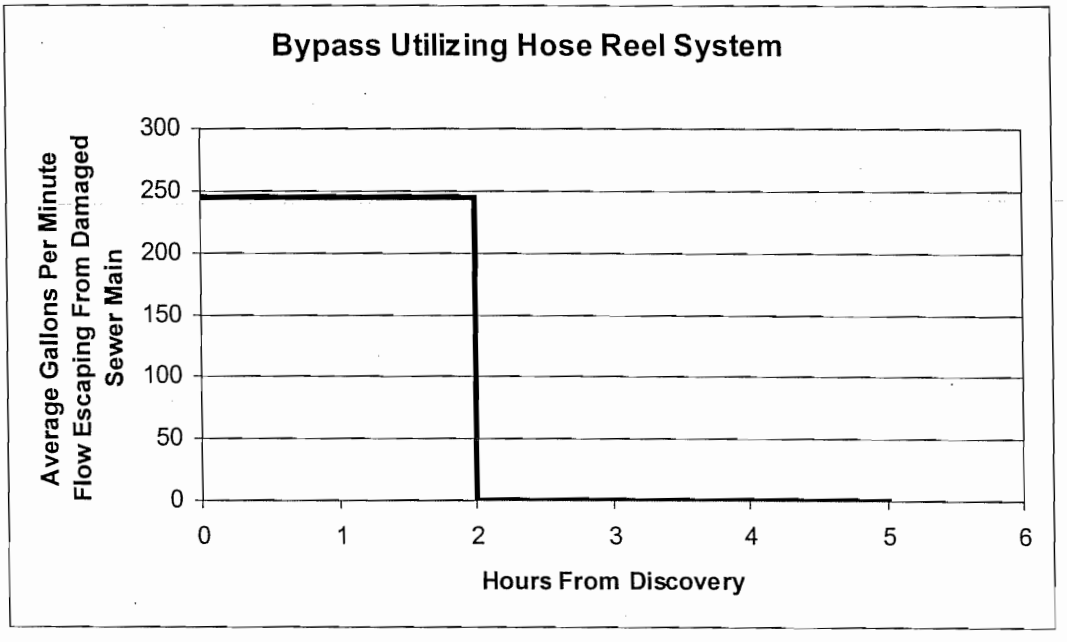


Figure 3

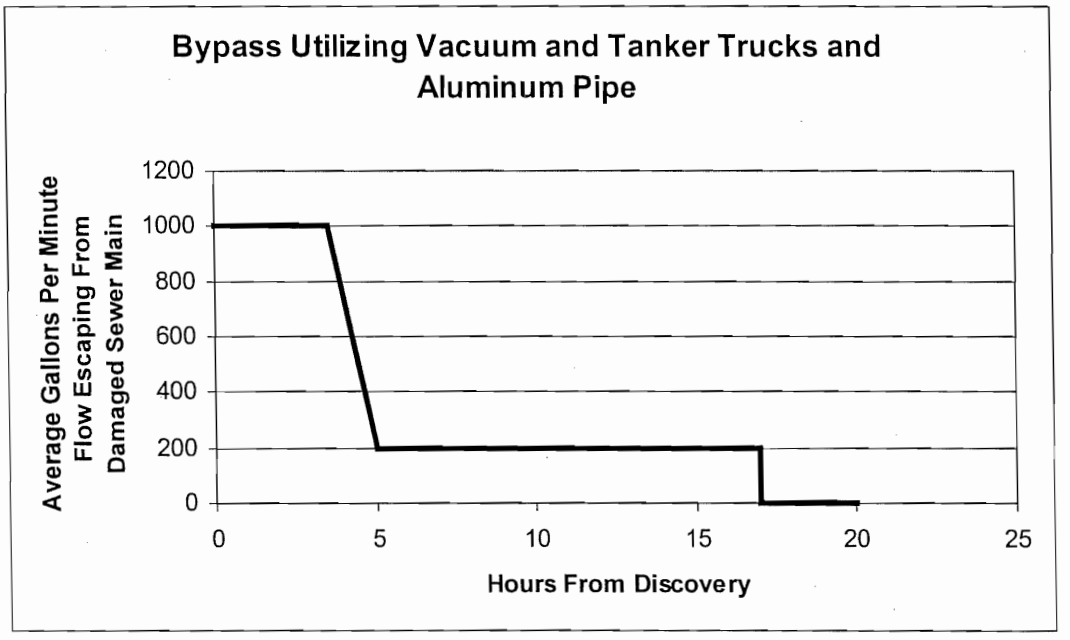


Figure 4

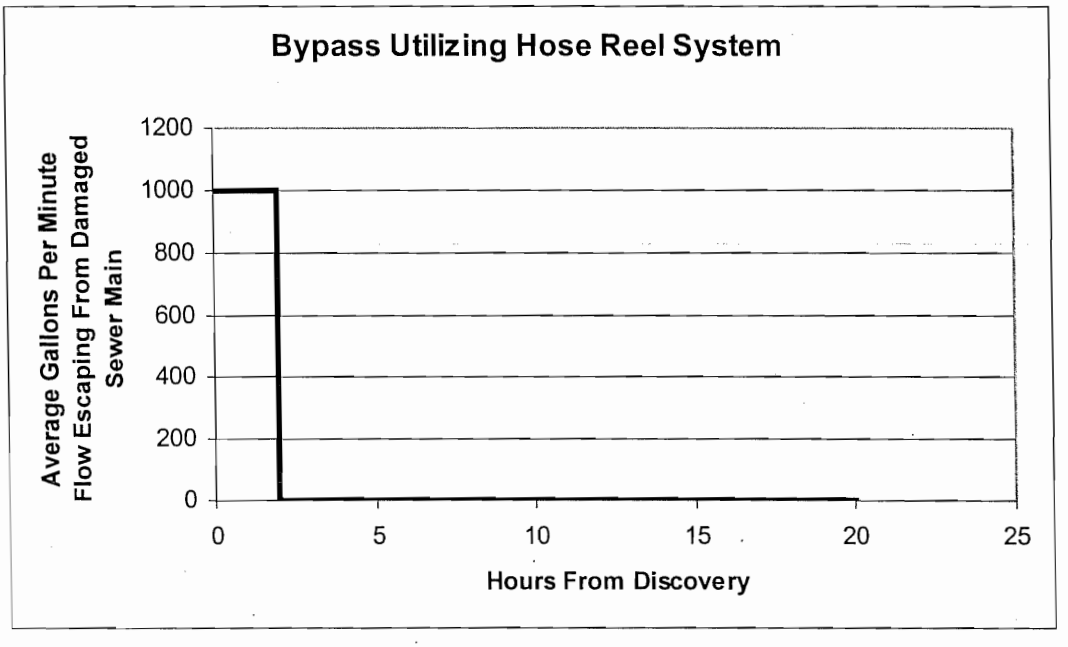


Table 1
DISCHARGE REDUCTIONS POSSIBLE BY USE OF SEWER BYPASS HOSE REEL SYSTEM AS COMPARED TO EXISTING BYPASS SYSTEMS

	Average Gallons Per Minute Flow Escaping From Damaged Sewer Main	Method of Bypass	Gallons of Sewage Discharged Prior to Completion of Bypass	Gallons Reduction in Discharge by Utilizing Hose Reel System	Percentage Reduction in Discharge by Utilizing Hose Reel System
1	245	Tanker Trucks	56,000	-	-
2	245	Hose Reel System	29,400	26,600	47%
3	1,000	Tanker Trucks and Aluminum Pipe	408,000	-	-
4	1,000	Hose Reel System	120,000	288,000	70%

C. Conformance of Sewer Bypass Hose Reel System to Recommendations of the *Lake Tahoe Basin Framework Study, Wastewater Collection System Overflow/Release Reduction Evaluation*, US Army Corps of Engineers, April 2003.

The *Lake Tahoe Basin Framework Study, Wastewater Collection System Overflow/Release Reduction Evaluation*, US Army Corps of Engineers, April 2003, cataloged sewage collection providers within the Lake Tahoe Basin. Extracting collection line information from the report by collection entity indicates (see Table 2 below) that 908.9 miles of collection lines exist within the Lake Tahoe Basin. Of these, 75.5% are in California, and in excess of 69.4 miles are force mains (pressure lines).

In addition, the *Lake Tahoe Basin Framework Study, Wastewater Collection System Overflow/Release Reduction Evaluation* Study concluded with a number of recommendations intended to implement "A dynamic approach to the management, operation, maintenance, rehabilitation, and replacement of the sewer systems is recommended to maintain their performance and to reduce the risk of overflows/releases." These recommendations are found

on Page 16-7 of the Report (the text of that page is attached in Appendix D). Unfortunately, funding has not become available to fully implement these recommendations.

The Sewer Bypass Hose Reel System SEP would allow the Collection Entities (all signatories to the Tahoe Emergency Contingency Plan) the opportunity and flexibility to expand their implementation of three of the operationally significant recommendations by creating the ability of taking long reaches of collection lines out of service for inspection and preventive maintenance. These three recommendations are as follows:

- Develop and maintain a routine preventive maintenance program designed to prevent overflows/releases and to protect the investment costs of the sewer system.
- Develop a regular inspection and cleaning schedule and take action to the results of these inspections.
- Implement annual inspections of system components that are operated and maintained within the environmentally sensitive study areas including creek crossings, export gravity sewers and force mains, and pump stations. In these areas, provisions to facilitate inspection of these sewer lines may be required including turnouts, access ports, or parallel/redundant pipelines.

Implementation of a Sewer Bypass Hose Reel System SEP would be highly beneficial to the water quality of Lake Tahoe and be a first step towards meeting the Recommendations of the *Lake Tahoe Basin Framework Study, Wastewater Collection System Overflow/Release Reduction Evaluation*, US Army Corps of Engineers, April 2003.

Table 2
SEWER LINES DIVIDED BY COLLECTION ENTITY AND TYPE OF LINE[3]

Collection Entity	Gravity Mains (miles)	Force Mains (miles)	Total (miles)
IVGID	132	Included in gravity	132
Tahoe Douglas District	24	7.4	31.4
Round Hill General Improvement District	7	2	9
Douglas County Sewer Improvement District No.1	9.5	6	15.5
Kingsbury General Improvement District	33	2	35
STPUD	420	40	460
TCPUD	130	5	135
NTPUD	84	7	91
Total	**839.5**	**69.4**	**908.9[4]**

[3] Computed from data in the *Lake Tahoe Basin Framework Study, Wastewater Collection System Overflow/Release Reduction Evaluation*, US Army Corps of Engineers, April 2003.

3. Analysis of Sewer Bypass Hose Reel System SEP's Conformance to State Water Resources Control Board General SEP Qualification Criteria

The Sewer Bypass Hose Reel System SEP conforms to the State Water Resources Control Board General SEP Qualification Criteria in the following ways:

(a) The SEP only consists of measures that go above and beyond the obligation of any one utility entity by providing, on a basis available to all, state-of-the-art equipment which the entities could not afford on an individual basis and are not required.

(b) The SEP directly benefits groundwater and surface water quality through pollution prevention and reduction by substantially increasing the ability to reduce the severity of sewer line breaches and to increase the ability to maintain existing sewer lines.

(c) The SEP does not directly benefit the SWRCB or RWQCB functions or staff.

(d) The SEP is not an action, process or product that is otherwise required of any sewer collection, transporting or treatment entity by any rule or regulation of any entity, nor is the SEP proposed as mitigation to offset the impacts of any such entities' projects.

[4] Of the total of 908.9 miles of sewer lines, 686 miles, or 75.5% are located in California.

4. Regional Support for Sewer Bypass Hose Reel System SEP

BOARD OF DIRECTORS
KELLY ATCHLEY
ERIK HENRIKSON
LOU REINKENS
RON TREABESS
RIC WINTER

ROBERT LOUREY
GENERAL MANAGER

Tahoe City Public Utility District

August 3, 2006

Leon C. Schegg, P.E.
North Tahoe Public Utility District
P.O. Box 139
Tahoe Vista, California 96148

RE: Support for Purchase and Regional Availability of Sewer Bypass Hose Reel System

Dear Lee,

This letter is written in support of the purchase and availability of a portable sewer bypass hose reel system. The purchase and availability of this piece of equipment would provide the Tahoe City Public Utility District (TCPUD) with a much more timely and efficient means of performing sewer bypass operations.

The TCPUD currently operates and maintains over 180 miles of gravity sewer pipe as well as 22 sewer lift/pump stations. As you are aware, bypassing a sewer pump station occurs for both routine maintenance as well as in emergency situations. The current practice of utilizing vacuum trucks and tanker trucks to bypass and transport sewage to a suitable location is cumbersome, time consuming and limited on the volume of sewage that can be bypassed over a given period of time. The bypass hose reel system would provide a much greater capability of transporting sewage timely, safely and at a much higher flow rate. The system could be utilized on all of the TCPUD above described facilities.

This bypass hose reel system could have been implemented in the Flood of 1997 at the TCPUD Sunnyside Pump Station. Had the system been available, the supplemental pumping capability afforded by it could have avoided the sewer system loss that occurred. There are dozens of examples of the usefulness of this system and the positive impact its presence could have in the area.

On behalf of the TCPUD, we appreciate the efforts the North Tahoe Public Utility District has put into researching and specifying such a useful and key piece of equipment for the areas benefit. Should you have any questions, do not hesitate to contact me at 530/583-3796, extension 33.

Sincerely,

Robert Lourey
General Manager

Cc: Bill Back - Director of Public Works

P.O. Box 5249, 221 Fairway Drive, Tahoe City, California 96145 (530)583-3796 • FAX (530)583-1475

INCLINE VILLAGE
GENERAL IMPROVEMENT DISTRICT

August 3, 2006

Leon C. Schegg P.E.
Public Works Director
North Tahoe PUD
P. O. Box 139
Tahoe Vista, California 96148

RE: Mounted Sewer Bypass Hose Reel System

Dear Mr. Schegg:

The Incline Village General Improvement District (IVGID) understands that the North Tahoe Public Utility District (NTPUD) may acquire a trailer-mounted sewer bypass hose reel system for use during sewer emergencies and for the prevention of sewer overflows during routine maintenance operations. We also understand that this bypass system would be made available to regional sewer entities under our existing Mutual Emergency Aid Agreement.

IVGID would make use of the system for:

- Planned sewer line replacement or rehab projects, when a secure temporary pump-around bypass is needed to maintain flows.
- Proactive risk management to bypass critical lines when third-party construction has the potential of rupturing an existing forcemain. This includes use on the Effluent Export Pipeline within the narrow State Route 28 corridor.
- Emergency response to pump out containment basins in the event of a sewer spill.

IVGID supports the acquisition of this invaluable emergency response asset within the Basin, and appreciate that, if the need arises within our service area, we would be allowed to borrow the hose reel system.

Very truly yours,

Daniel M. St. John, P. E.
Director of Public Works

C: Wm. B. Horn, General Manager
H. Johnson, Utilities Superintendent
J. Pomroy, P. E., Engineering Manager
Agency File
Reading

ADMINISTRATIVE OFFICES · 893 SOUTHWOOD BOULEVARD · INCLINE VILLAGE, NV 89451
PH: (775) 832-1100 FX: (775) 832-1122 · WWW.IVGID.ORG

080306A

Appendix A. Detailed Product Description and Literature

No:	Spec No:	Description

HRA4X10 Hose Reel Auxiliary System for

Transport / Deployment / Retrieval / Storage of 3825' 10" Wasteline 600 Green

01 ***Base Trailer System*** consisting of the following minimum specifications:
- Tandem Axle Spindles, Hubs, Wheels shall have 8000 lb. min load rating per axle
- Tubular Steel Frame 5" X 3" X 3/16" Structural Steel A-500
- Steel Deck Plating 3/16" w/ Hold-Down Alignment Post and Safety Pins
- Hi-Miler Floatation Tires GR-235 X 16" load range E
- Fenders shall be 10 gauge steel w/gravel protective flaps
- Electric Surge brakes w/4 wire common connector pigtail for light pkg.
- North Tahoe Public Utility District Specifications
- Pintle Hitch w/ 10,000 lb hand crank frame Support Jack

02 ***Power System*** – shall consist of the following:
- 4024T-John Deere 49 HP Diesel Engine w/ Tier II 2006 Emission
- Hydraulic pump package w/ Universal "***Dripless***" Quick Disconnect Fittings
- Safety Control Valve System for reel operation "Forward / Neutral / Reverse"
- Standard Size Fuel Tank
- Resid. muffler / Eng. hood System w/ Std gauge pkg / Electric Start

03 ***Base Trailer System w/ Power System***

04 ***Tool Box*** - Aluminum Diamond Plate w/Locking Water-tite seal

05 ***A-Frame Reel System*** – shall consist of the following minimum specifications:
- Tubular Steel A-Frame 5" X 3" 3/8" Structural Steel A-500
- Center Drum Core 20" XZ 3/8" steel to store first coupling/end fitting
- Hydraulic Motor & Chain Reduction system
- Retrieval speed shall not exceed 3 RPM
- Free wheeling deployment w/ T-Handle brake system
- Dividers shall be 1.30 X .179 steel gauge wall and tube stock w/ end divider to have holes for receiving "Lifting Bar" clevis
- 4 dividers per reel for 10" ***Wasteline 600 Green***

06 ***A-Frame Reel System*** *2 ea.*

07 ***Lifting Bar*** for Auxiliary A-Frame Reel System to be 5" X 3" X 3/8" Structural Steel A-500
08 ***Paint*** – Hi-Gloss White Epoxy paint to North Tahoe Public Utility District specs.

Wasteline 600 Green

No:	*Spec.*	*Qty*	*Size*	*Description*
09	WL100	3300'	10"	***Wasteline 600 Green (5/660')*** Cpld w/ Field Attach Victaulic ends
10	WL100	525'	10"	***Wasteline 600 Green (1/525')*** Cpld w/ Field Attach Victaulic ends
11	WL080	600'	8"	***Wasteline 600 Green (1/600')*** Cpld w/ Field Attach Victaulic ends

Accessories / Options

No:	*Spec*	*Qty*	*Size*	*Description*
12	FA10M	1	10"	Field Attachable Mender
13	741-10	2	10"	Adapter 10" Victaulic X Flange
14	HRC-G	2		Auxiliary Hose Reel Cover – Green

WasteLine 600
Are you prepared for the next Sewer or Wastewater Spill?
PORTABLE PIPELINE SYSTEMS, Division of NORTH AMERICAN FIRE HOSE CORPORATION

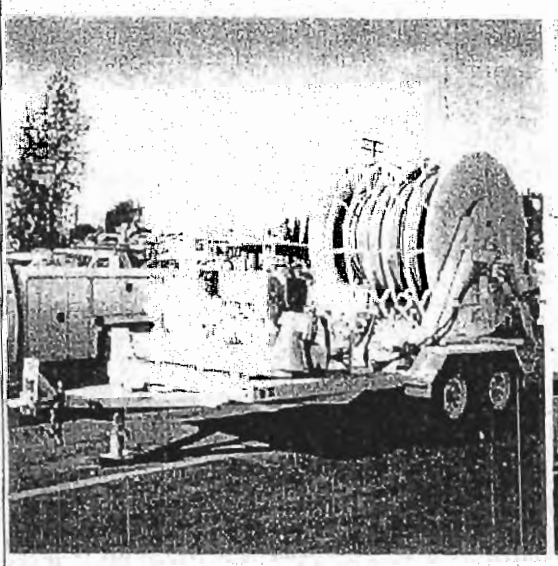
Are You Prepared?

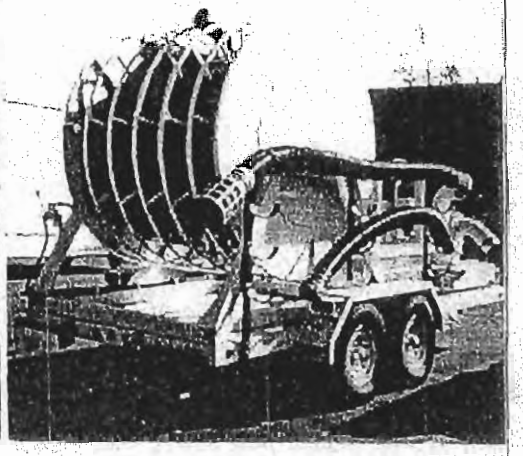
• Available in Green, Purple and Black.	• Meets APWA National Color code standards.	• Identifiable color prevents accidental misuse.
• Heavy duty, high gloss polyurethane cover and lining.	• Ozone, chemical, hydrocarbon, mildew and abrasion resistant.	• Tough polyurethane extends hose life under adverse conditions.
• Special polyurethane material covers broad range of temperatures.	• Temperature range from -58° F to + 158° F.	• Works well at low and high temps. Will not harden or crack at low temps. like other materials.
• Heavy denier woven polyester yarn reinforced jacket.	• High tensile strength of reinforcing yarns provide high strength and high pressure capability.	• Working pressures to 325 psi meet many high pressure demands.
• Lay-flat configuration when depressurized.	• More compact than cast iron or aluminum pipe.	• Lay-flat design reduces space to store & move.
• Extruded through-the-weave construction.	• Encapsulates and protects woven reinforcement.	• Resists abrasion, abuse and delamination.
• Sizes, 2" to 12" diameters.	• Wide range of products for different flow requirements.	• Can combine large feeder line and small branch line.
• Lengths up to 660 feet.	• Longer lays possible with minimum connections between lengths.	• Fewer couplings, faster set-ups, less leaks.
• Flexible construction method.	• Tight bend radii possible without kinking.	• Deploys easily over difficult terrain.
• Produced by the world's leader in through-the-weave technology.	• Over 200 years of manufacturing experience.	• Highest quality product available on the planet.
• Designed with safety in mind.	• 2 to 1 safety factor.	• Extra margin of safety for tough applications.

SIZE	LENGTH	FLAT WIDTH	WEIGHT PER FOOT	COIL DIAMETER 50 ft.	COIL DIAMETER 100 ft.	BURST PRESSURE	WORKING PRESSURE	SIZE
2"	660'	3.125"	.21	13-1/2"	17-1/2"	650	325	2"
2-1/2"	660'	4.50"	.30	14"	18"	650	325	2-1/2"
3"	660'	5.00"	.37	15"	19"	600	300	3"
4"	660'	6.25"	.56	19-1/2"	30"	550	275	4"
6"	660'	9.25"	1.09	30"	48"	450	225	6"
8"	660'	12.50"	1.90	NA*	NA*	450	225	8"
10"	660'	15.75"	2.20	NA*	NA*	300	150	10"
12"	660'	18.50"	3.10	NA*	NA*	250	125	12"

Are You Prepared?

- *Does your city have an Emergency Preparedness Plan or Program to respond to Sewer or Wastewater spills?*
- *Are you prepared to respond quickly to contain the spill?*
- *Or - Does the Sewer Dept. have a Portable Pump that uses 6" heavy black rubber hose in 10 ft. lengths that require "too much time" and "too many workers"?*





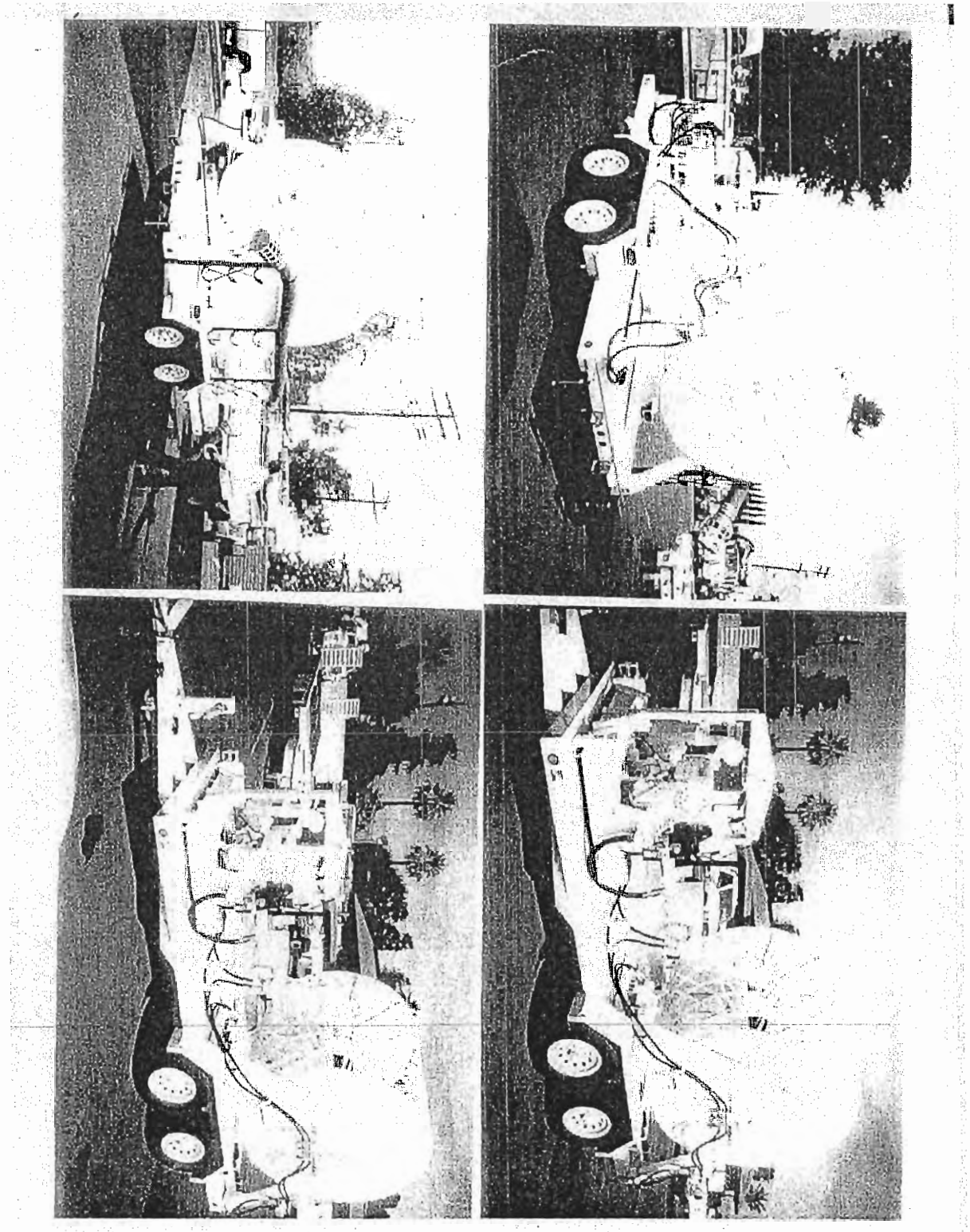
- Solution -

"Emergency Spill Response System"

(ESR-6)

- *A Portable Lift Station / Bypass System with up to 3960' of 6" Portable Pipeline "Wasteline 600"*
- *Quick response, easily transported to the spill*
- *Rapid deployment, ease of retrieval and compact storage*
- *Reduces back injuries, eliminates man-handling heavy hoses*
- *Minimal maintenance required*
- *Simplicity of overall operation*
- *Stable and maneuverable in off-road terrain*

Portable Pipeline Systems
Field Office: 3844 Mistral Dr. Huntington Beach, CA. 92649 Tel: 714-840-3740 Fax: 714-840-1434 Pg: 800-504-2514
Factory Location: 910 E. Noble Way Santa Maria, Ca. 93454 Tel: 800-747-7075 Fax: 805-922-0086



Appendix B. Tahoe Truckee Area Emergency Contingency Plan Agreement for Mutual Emergency Aid

TAHOE TRUCKEE AREA EMERGENCY CONTINGENCY PLAN

AGREEMENT FOR MUTUAL EMERGENCY AID

This Agreement is made and entered into on the dates set forth below, by and between the public agencies set forth below.

WHEREAS, the agencies party to this Agreement maintain and operate sewage and/or water collection, transportation and treatment facilities in the Lake Tahoe-Truckee areas; and

WHEREAS, the parties hereto have heretofore engaged in an informal policy of mutual cooperation wherein the resources of each were available to the other on an as-available basis for the purposes of minimizing environmental damage due to leakage from or destruction of such facilities and of promoting public health; and

WHEREAS, it is the desire of the parties hereto to execute a mutual aid agreement wherein the policy of mutual cooperation is formalized and expanded to meet projected needs of the parties.

NOW, THEREFORE, the parties hereto mutually agree as follows:

1. To furnish to each other personnel trained in the emergency and operation and/or repair of sewage and/or water collection, transportation and treatment facilities, together with equipment, materials and supplies required for such operation and/or repair as may be necessary during emergency conditions.

2. To provide such emergency aid within the ability of the agencies party to this Agreement, provided, however, that no party shall be required to deplete its own resources, personnel, services or facilities to the detriment of its normal responsibilities or the detriment of anticipated needs. No agency shall incur any liability or be found at fault for failure to furnish personnel, equipment, materials or supplies when such are available. In addition, each agency shall have the right, at the sole discretion of said agency, to order any personnel, equipment, materials or supplies furnished to another agency be returned to the furnishing agency, without any liability for said order.

3. That no response to an emergency aid request provided for in this Agreement will be made by any party hereto unless such request is received through established communication channels and made by a previously designated responsible official of the agency requesting such aid. The Manager of each agency shall be deemed a responsible official and shall have the authority to designate alternate responsible officials to other agencies. No such designation shall be effective until received, in writing, by other agencies.

4. That any emergency aid extended under this Agreement is extended with the express understanding that the responsible local official (in whose jurisdiction and incident

requiring emergency aid has occurred) shall remain in charge at such incident including the direction of personnel and equipment provided through the operation of this Emergency Aid Agreement. Any agency providing personnel or equipment may require that equipment be furnished with operators or that supervisory or safety personnel be furnished with the personnel and/or equipment.

5. That at the sole discretion of the agency supplying aid, the benefiting agency shall pay each agency supplying aid monthly, on receipt of invoice, costs for the equipment, personnel, materials and supplies furnished. These costs shall be computed in accordance with the schedule of rates shown in Exhibit "A" attached hereto and incorporated herein by this reference. Some agencies may require operators to accompany their equipment and rate may include operator. All labor will be billed at actual rate paid plus benefits. All expendable materials will be billed at cost.

   That the benefited agency will indemnify and hold harmless each supplying agency against all liability and claims for damages, personal injury and death arising out of the use of vehicles, equipment or other property, or personnel of the supplying agency by the benefited agency, except where vehicles, equipment or other property, or personnel remain within the control of the supplying agency, in which case the supplying agency will indemnify and hold harmless the benefited agency against all such liability and claims.

6. That each agency shall maintain coverage for liability, property damage, and worker's compensation for industrial injury or illness through insurance or self-insurance, including coverage for its equipment and employees when used by other agencies under this Agreement. Any agency party to this Agreement shall have the right to evidence of such coverage upon request.

7. That this Agreement shall not operate to merge any of the parties hereto, to subject any of the parties hereto to the jurisdiction of any regulatory agency not having jurisdiction in the absence of this Agreement, or to require that any party hereto cooperate with or report to any agency not a party to this Agreement.

8. That this Agreement shall become effective as to each party upon execution by said party and shall remain in full force and effect as to each party until terminated by said party. Any party hereto any terminate its rights and obligations under this Agreement by giving all other parties thirty (30) days prior written notice, however such termination shall not affect the rights and obligations of the remaining parties hereto or any rights and obligations of the withdrawing party occurring prior to the effective date of termination.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed as of the days and years set forth below.

ALPINE SPRINGS COUNTY WATER DISTRICT

Date:_____ By:_____

Attest:_____

DOUGLAS COUNTY SEWER IMPROVEMENT DISTRICT. NO. 1

Date:_____ By:_____

Attest:_____

INCLINE VILLAGE GENERAL IMPROVEMENT DISTRICT

Date:_____ By:_____

Attest:_____

KINGSBURY GENERAL IMPROVEMENT DISTRICT

Date:_____ By:_____

Attest:_____

NORTH TAHOE PUBLIC UTILITY DISTRICT

Date:_____ **By:**_____

Attest:_____

NORTHSTAR COMMUNITY SERVICE DISTRICT
Placer County Service Area No. 21, Northstar

Date:_____ **By:**_____

Attest:_____

ROUND HILL GENERAL IMPROVEMENT DISTRICT

Date:_____ **By:**_____

Attest:_____

SOUTH TAHOE PUBLIC UTILITY DISTRICT

Date:_____ By:_____

Attest:_____

SQUAW VALLEY PUBLIC SERVICE DISTRICT
Squaw Valley County Water District

Date:_____ By:_____

Attest:_____

TAHOE CITY PUBLIC UTILITY DISTRICT

Date:_____ By:_____

Attest:_____

TAHOE DOUGLAS SEWER DISTRICT

Date:_____ By:_____

Attest:_____

TAHOE - TRUCKEE SANITATION AGENCY

Date:_____ By:_____

Attest:_____

TRUCKEE SANITARY DISTRICT

Date:_____ By:_____

Attest:_____

Appendix C. State Water Resources Control Board General SEP Qualification Criteria

From Section IX.C of the State Water Resources Control Board Water Quality Enforcement Policy:

"C. General SEP Qualification Criteria

All SEPs approved by the SWRCB or RWQCB must satisfy the following general criteria:

(d) An SEP shall only consist of measures that go above and beyond the obligation of the discharger. For example, sewage pump stations should have appropriate reliability features to minimize the occurrence of sewage spills in that particular collection system. The installation of these reliability features following a pump station spill would not qualify as an SEP.

(e) The SEP should directly benefit or study groundwater or surface water quality or quantity, and the beneficial uses of waters of the State. Examples include but are not limited to:

(i) monitoring programs;
(ii) studies or investigations (e.g., pollutant impact characterization, pollutant source identification, etc.);
(iii) water or soil treatment;
(iv) habitat restoration or enhancement;
(v) pollution prevention or reduction;
(vi) wetland, stream, or other waterbody protection, restoration or creation;
(vii) conservation easements;
(viii) stream augmentation;
(ix) reclamation;
(x) public awareness projects (e.g., industry specific, public-awareness activity, or community environmental education projects such as watershed curriculum, brochures, television public service announcements, etc.);
(xi) watershed assessment (e.g., citizen monitoring, coordination and facilitation);
(xii) watershed management facilitation services; and
(xiii) non-point source program implementation.

(f) The SEP shall not directly benefit the SWRCB or RWQCB functions or staff. For example, SEPs shall not be gifts of computers, equipment, etc. to the SWRCB or RWQCB.

(g) The SEP shall not be an action, process or product that is otherwise required of the discharger by any rule or regulation of any entity (e.g., local government, California Coastal Commission, United States Environmental Protection Agency, United States Army Corps of Engineers, etc.) or proposed as mitigation to offset the impacts of a discharger's project(s)."

Appendix D. Page 16-7, *Lake Tahoe Basin Framework Study, Wastewater Collection System Overflow/Release Reduction Evaluation*, US Army Corps of Engineers, April 2003

16.3 Recommendations

A dynamic approach to the management, operation, maintenance, rehabilitation, and replacement of the sewer systems is recommended to maintain their performance and to reduce the risk of overflows/releases. The districts are currently taking this approach in varying degrees. As stated early, the findings of this study are statements of fact or of the best available information at the time of the study. This study also provides conclusions that are the professional judgments of experts knowledgeable in sanitary sewer. The recommendations that have been listed in this study are industrial standards applied to Lake Tahoe and accepted by professionals in the sanitary sewer industry.

The recommendations include completing the following key activities:

- A regional consensus on funding, environmental regulations, and standards for the design and construction should be reached by the Lake Tahoe sanitary sewer stakeholders. A basin wide approach to a comprehensive capital improvement program (CIP) should be considered for the replacement or rehabilitation of the sewer facilities located in the environmentally sensitive areas in the Lake Tahoe basin.
- Focus initial inspection and rehabilitation/replacement activities on implementing the potential action plans identified in this study.
- Develop appropriate budgets and staffing needs for the operation and maintenance and rehabilitation and replacement of the deficient sanitary sewer facilities.
- Develop and maintain a routine preventive maintenance program designed to prevent overflows/releases and to protect the investment costs of the sewer system.
- Develop a regular inspection and cleaning schedule and take action to the results of these inspections.
- Implement annual inspections of system components that are operated and maintained within the environmentally sensitive study areas including creek crossings, export gravity sewers and force mains, and pump stations. In these areas, provisions to facilitate inspection of these sewer lines may be required including turnouts, access ports, or parallel/redundant pipelines.
- Develop and maintain an information management system that provides timely responses to and tracking of the following:
  - Emergencies
  - Problems and complaints that may lead to or have caused overflows or releases
  - The identification of deficiencies within the sewer system and prioritizing these deficiencies
  - The planning of maintenance activities and scheduling
  - The planning of capital budgets
  - Investigate of complaints, identify associated problems, and take corrective measures
  - Regular repair of deteriorating sewer facilities
  - Develop and implement a program to make certain that new sewers and connections are properly designed and constructed.
- Inspect problems that cause sewage overflows or releases and take corrective actions.

ATTACHMENT II.c

Lewis Brisbois Bisgaard & Smith LLP
August 31, 2006 Letter

LEWIS BRISBOIS BISGAARD & SMITH LLP

ATTORNEYS AT LAW

2500 VENTURE OAKS WAY, SUITE 200, SACRAMENTO, CA 95833
PHONE: 916.564.5400 | FAX: 916.564.5444 | WEBSITE: www.lbbslaw.com

BRUCE L. SHAFFER
DIRECT DIAL: 916.646.8203
E-MAIL: shaffer@lbbslaw.com

August 31, 2006

FILE NO.
25116-23

CONFIDENTIAL SETTLEMENT PROPOSAL

Steven H. Blum, Senior Staff Counsel
STATE WATER RESOURCES CONTROL BOARD
Office of Chief Counsel
1001 "I" Street
Sacramento, California 95814-2828

VIA E-MAIL & U.S. MAIL
sblum@waterboards.ca.gov

Re: LRWQCB Administrative Civil Liability Complaint #R6T-2005-029
North Tahoe Public Utility District v. Pacific Built, Inc., et al.
Placer County Superior Court Case No.: TCV 1122 [Tahoe Division]

Dear Mr. Blum:

We are writing to confirm our August 30, 2006 telephone conversation with regard to the Pacific Built, Inc. and Davis and Coffeng family settlement proposal set forth in our August 7, 2006 letter.

It is our understanding that the prosecution team, after review of our settlement proposal as well as the supplementary information provided by the NTPUD and adopted by our group, has determined that it will support the proposed SEP and payment of $26,840 to the Waste Discharge Permit Fund.

It is also our understanding that Mr. Dodds has requested, no later than today that both our group and the NTPUD commit to the following:

1. No later than November 12, 2006 payment will be made to the Waste Discharge Permit Fund in the amount of $26,840 and payment made to the NTPUD in the amount of $298,160.

2. No later than December 12, 2006 the sewer bypass hose reel system will have been purchased by the NTPUD.

3. Within ninety days of receipt of the equipment, the NTPUD will complete training in accordance with the SEP proposal and applicable mutual aid agreements. The Lahontan Board staff may be in attendance at any training sessions.

As you are aware, the hearing on the LRWQCB's Administrative Civil Liability Complaint will recommence on October 11, 2006. At the hearing, we will be requesting, with your support and, hopefully, the advisory team's support, acceptance of the settlement proposal.

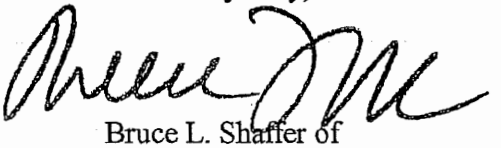
Assuming the Board approves the proposal at the hearing or within a week thereafter, Pacific Built and the Davis and Coffeng families will agree to comply with the November 12, 2006 payment deadline described above.

Additionally, we have been informed by Neil Eskind, counsel for the NTPUD, that the NTPUD will commit to having the hose reel system purchased by December 12, 2006 as long as the purchase price has been timely funded. Additionally, the NTPUD will commit to have training completed within ninety days of receipt of the equipment under the terms described above.

We expect to receive authority on or before September 1, 2006 to authorize the prosecution team to release the specifics of the settlement proposal to the advisory team. We understand that the earliest possible disclosure will be beneficial as at least thirty days of public notice is required prior to the October 11, 2006 hearing.

If you have any questions with regard to any aspect of this letter or our settlement proposal, please do not hesitate to contact us.

Yours very truly,



Bruce L. Shaffer of
LEWIS BRISBOIS BISGAARD & SMITH LLP

BLS/pea

cc: Neil Eskind
Drew Briner
Tom Ragan, Pacific Built, Inc.
Mark Hudak, Carr McClelland, et al.
James R. Donahue, Caulfield, Davis & Donahue

ATTACHMENT II.d

North Tahoe Public Utility District
August 21, 2006 Document

NORTH TAHOE PUBLIC UTILITY DISTRICT

August 21, 2006

Additional Information and Material to Report and Description of Supplemental Environmental Project Relative to R6T-2005-0029

The North Tahoe Public Utility District is pleased to submit additional information and material relative to a Supplemental Environmental Project (SEP) proposed to be incorporated in and become part of the resolution of Regional Board ACL Complaint No. R6T-2005-0029 (C. Geoffrey and Christine Davis, Hans and Margaret Coffeng, and Pacific Built, Inc.).

The purpose of this Supplemental Report is to respond to the requests for additional information contained in the letter from Robert S. Dodds, Assistant Executive Officer, California Regional Water Quality Control Board, Lahontan Region, to Bruce L. Shaffer dated August 15, 2006, and to submit additional letters of support for the SEP from the South Tahoe Public Utility District, the Tahoe-Truckee Sanitation Agency and the Truckee Sanitary District.

A. Responses to Request for Additional Information

1. The proposal needs to describe how the hose reel will be used at road intersections, across driveways, and through other transportation corridors in a manner that allows traffic to continue and in a manner that is protective of the hose. This will be especially important in emergency or spill situations where advance traffic planning is not possible. Since the hose is flexible, it will require protection.

The NTPUD has experience in the deployment of its current bypass process using 40-foot sections of aluminum pipe and has had to address the issues of security and public convenience. Safety is provided by delineators along the alignment supplemented by warning tape and barricades as appropriate.

The NTPUD has a prefabricated steel crossing ramp to allow vehicles to cross its existing aluminum pipe that will be used with the by Sewer Bypass Hose Reel System. This ramp is moved and deployed by an NTPUD crane truck to points along the pipe deployment as needed.

Existing NTPUD force main bypass valves are all located on the lakeside of State Hwy 28. A conductor casing is installed under the common drive to Flick Point residences and another casing is installed beneath State Highway 28 at Onyx Street for the aluminum pipe to connect the sewer pump station to the by pass facilities on the opposite south side of the highway. All of these facilities are compatible with the 10-inch flexible hose.

PO Box 139, Tahoe Vista, CA 96148 • (530) 546-4212 • FAX (530) 546-2652 • 875 National Ave.
e-mail: ntpud@ntpud.org • website: www.ntpud.org

For road crossings alternatives could include road closures, use of the steel ramp with single lane detour to maintain traffic or to dig a shallow trench across the roadway, place the hose in the trench, and put plates over the trench to allow traffic. It is impossible to address all the potential issues that will arise, but just as roads are routinely closed in the event of an unknown or hazardous material spill the same process can be implemented. In such an event the Placer County Office of Emergency Services could be contacted to provide coordination with law enforcement and fire departments to provide traffic and people control and work with the District(s) in the event of emergency access across the bypass is needed. NTPUD management has received National Incident Management System training and experience with emergency incident command structures through Placer County.

The NTPUD will suggest to all mutual aid districts that they do at least a tabletop deployment exercise to address intersections and coordinate with state and local highway departments and law enforcement for emergency response.

2. Please include information regarding who will be responsible for ensuring that staff of NTPUD and other mutual aid entities are properly trained in the operation, maintenance, and transport of the equipment. Training needs to be on-going and include all other signatory entities.

Initial training will be provided by the manufacturer. Formal training will include the deployment, retrieval, care and repair of the hose and hardware. Representatives of all the mutual aid districts will be invited to attend.

Additional training will take place at several levels; field deployment, public education/information, incident command/response. The NTPUD can and will provide training in field operations and will inform other organizations with jurisdiction over wastewater collection and transport in the region of the training and invite participation. The goal is to establish a pool of trained personnel to offset any one agency's personnel shortage due to illness, vacation, etc.

NTPUD office staff will be trained in contacting affected property owners and responding to inquiries. Management will have sample press releases and public announcements that will expedite the public notification process for both information and public cooperation. Again, other agencies will be invited to participate. The Placer County OES Teleminder Program can also be used for public contact and instruction.

3. Describe, at a minimum, how all entities can access the hose reel and appurtenant equipment, transport the equipment (ensuring that all entities have appropriate vehicles and trailer hitches for transport or that NTPUD staff will always be available to transport same), and communicate their needs for the equipment, and access to it.

When equipment or assistance is needed the existing Mutual Aid Agreement provides for the contacts with the authority at each agency to commit resources. This system has functioned well over a number of years.

The equipment is being specified with pintle hook hitch for load capacity and universal application. The trailer will require a vehicle rated to haul 10,000 lbs. Should an agency require the bypass system and not have a transportation vehicle, the NTPUD could provide transport if needed.

The equipment will be located at the NTPUD yard in Tahoe Vista, California. This location is centrally located within the South Lake Tahoe-Truckee region and provides for acceptable transport times.

The hose reel trailer is specified to have a waterproof utility box. Accessories and typical fittings, adapters, and specialized tools will be inventoried and kept in that box or on racks mounted on the trailer so that there is no lost time or missing components to affect the expeditious deployment of the bypass system.

4. What other equipment (i.e., couplings) will be needed to make the system fully functional and compatible with existing pumps owned by all who would request it?

As specified, the Sewer Bypass Hose Reel System is fully functional and compatible with the NTPUD's sewer force main bypass components and portable pump. Each of the other mutual aid agencies' specific needs (distance, pressures, flow meters, existing pipe sizes) will vary, however it is anticipated that the length and size of pipeline will be suitable for the majority of conditions.

Initially the hose is being specified with Victaulic couplings, couplings to connect the two sizes of pipe and couplings to connect the bypass hose to flanged fittings. Victaulic couplings are common fittings in the wastewater industry as are flanged (bolted) connections.

Couplings to adapt the hose to various sized pumps or piping systems can be obtained or fabricated for a few hundred dollars each, which should not provide a financial burden on any mutual aid agency. The NTPUD may fabricate additional fittings to adapt the hose to other agencies' components to allow for additional flexibility.

5. Page 3 of the NTPUD SEP Report states, "The system was designed to meet the needs of all but the most extreme situations which could occur within the regional area." Please provide information defining the upper boundary conditions that can be addressed with the hose reel. Also, please provide information detailing <u>where</u> along the north shore of Lake Tahoe such "extreme situations" might exist.

Extreme condition limitations was intended to refer to two scenarios; weather and flow extreme conditions. As an example, it is conceivable that under extreme conditions there would be no means of transport between two locations separated by a flooded, washed-out road, or avalanche. While rare, these conditions have occurred at Lake Tahoe during the past 30 years. As long as shoulders to the road system are open then the bypass system can be deployed.

Flow conditions could also be of such a nature as to prevent the bypass system from fully bypassing all flow. Conceivably, a combination of high user flows and high inflow due to damaged or failed facilities could exceed the capacity of either available pumps or the bypass hose. The capacity of a bypass system (pumps, hose, and pumping distance) is very site specific. The NTPUD system is designed to bypass the largest pump station (Carnelian) which does not have a redundant force main system.

6. Page 6 of the NTPUD SEP Report provides an example scenario where sewage flows in a pipe at a rate of 1,000 gallons per minute. Please indicate all existing locations where this rate is typical. Please also indicate the length of emergency bypass that would be needed for these locations.

All of the NTPUD force mains exceed 1,000 gallons per minute flow regularly. These normally occur during peak (seasonal and holiday) periods. In the Carnelian system, the highest flow system, the proposed hose with either a station pump or the NTPUD portable bypass pump will be able to bypass the peak-day average dry weather flow of 919 gpm and the peak-day average wet weather flow of 1063 gpm. Peak-day peak flows are estimated to be approximately 1,400 gpm in either wet or dry weather.

The length of pipeline specified is sufficient to bypass the longest run of pipe between force main bypass valves. As an example, the Carnelian system has a total length of 11,244 feet, with two internal bypass valves. The longest run between bypass valves on that system is 3,825 feet. The Carnelian system also has the highest flows (aside from Dollar, where duplicate force mains exist), requiring the 10-inch pipeline. The longest distance between bypass valves in 4,220 feet, however this stretch is on a lower volume portion of the system, where a combination of 10-inch and 8-inch pipeline is appropriate.

7. Page 10 of the NTPUD SEP Report states that the hose reel will allow other sewage collection entities to inspect and maintain their sewer lines. Explain how this system will be an improvement over the existing methods and procedures used by entities that now routinely inspect and repair lines. Additional information is needed to make this argument. Also please provide the method by which other entities can reserve the use of the hose reel, and what showing other entities will need to make in order to use it.

Review of the Mutual Air Agreement catalog of assets shows that only the Truckee Sanitary District has easily deployable portable bypass capabilities compatible with larger capacity sewer lines, and TSD's equipment has limited length and is further limited by a 6-inch pipeline size.

As a result, current conditions do not allow larger force mains and major truck lines to be taken out of service. The Sewer Bypass Hose Reel System SEP allows larger, longer force mains and major trunk lines to be taken out of service for maintenance and inspection. Using NTPUD as an example, the SEP will allow the NTPUD force main segments (except the force main going up Dollar Hill, where there is already a duplicate force main) to be temporarily taken out of service for draining and inspection. Similarly, the force main segments can be taken out of service in order to affect repairs by use of the bypass hose. Major trunk lines such as the 36-inch gravity sewer line from the end of the National Avenue force main to the Carnelian Bay pump station may be bypassed to allow complete television inspection and maintenance to be performed where presently only limited inspection is possible. The present aluminum pipe bypass system has both minimum and maximum pressure limitations that may lead to wastewater discharges. As such the process is not practical or safe from a public health standpoint to use in anything but an emergency situation. Sewer bypass operations by tanker brigades carry some of the same risks for wastewater discharges but are clearly at a disadvantage when the operations require continuous operations through multiple work shifts. The proposed bypass hose system does not have these limitations and therefore is more conducive to preventive maintenance operations.

The Mutual Aid Agreement provides the framework for one signatory requesting aid from another. No specific showing of need is required and formality is kept at a minimum. The Agreement has proven to function extremely well

8. Page 11 of the NTPUD SEP Report indicates that sewage collection entities could not afford, on an individual basis, to purchase the hose reel. Please submit factual information to support this statement. It should be noted that the hose reel is to be made available to other entities as part of a mutual aid agreement, and it would be reasonable to argue that the cost for such a piece of equipment could be shared by the member entities if they were to collectively purchase it.

For the 13 entities signatory to the Mutual Aid Agreement to each purchase a $300,000 bypass system a total expenditure of $3,900,000 would be required. Many of the entities might find that a smaller system, with shorter lengths of smaller diameter pipeline, would be all that they initially required and could justify which would result in lower overall cost impacts, but the fact remains that the cumulative expense would be great. This could result in multiple systems which would all have small capacities and, not, even collectively, be able to help all members of the Agreement during emergencies.

In the current state of aging wastewater systems there is always a balancing of the immediate need to use available funding to repair lines in the ground versus purchasing new state-of-the art equipment.

The concept of shared equipment through collective purchases is certainly inviting. However, shared ownership and co-equal rights and responsibilities present a different set of legal and practical issues, such as maintenance responsibilities, insurance and liability responsibilities and differing structures of agencies in different states or with different governing acts. These issues are not present under the structure of the existing Mutual Aid Agreement, which is modeled after similar arrangements long-existing in the fire-protection area where individually-owned equipment and not shared ownership is the standard.

9. Page 14 of the NTPUD SEP Report provides a detailed product description. The description includes a base trailer for 3,825 feet of 10-inch hose reel. However, there is no description for a trailer to transport the 600 feet of 8-inch hose reel. Please provide this additional product information.

The Sewer Bypass Hose Reel System specified includes two reels and one trailer. The A-Frame mounting on the trailer allows reels to be interchanged. Each reel has 4 dividers, allowing up to five 660-foot lengths of 10-inch or smaller pipeline to be stored on the reel. Interchange of reels on the trailer is a routine and quick process. Depending upon the deployment location, the second reel can be either transported to the site of use by a flatbed truck or remain at a base location and the trailer returned to base to change reels. A second trailer was determined to be not as desirable as extra lengths of pipeline. The manufacturer confirmed that this was an appropriate decision. As experience with the use of the system is gained it will always be possible to acquire a second trailer if that is determined necessary.

10. Page 17 of the NTPUD SEP Report provides manufacturer's product specification data. The specifications are for 660-foot lengths of hose. Please provide product specifications for the 535-foot section of 10-inch pipe and for the 600-foot section of 8-inch pipe that are described in the proposal. Also, please provide information about the availability and locations of portable pumps used by the signatories to the mutual aid agreement that are compatible with the pressure specifications (both minimum needed and maximum permissible) of the hoses that are a part of this system

The bypass hose in all diameters is manufactured of the same material in a process which limits lengths to 660-feet, however these lengths can be cut to make shorter lengths without otherwise degrading specifications. The specifications for the 525-foot length of 10-inch pipeline are therefore identical to those for the 660-foot length except for the length. The product specifications for the 600-foot length of 8-inch pipeline are identical to those for a 660-foot length of 8-inch pipeline. These specifications are described in Appendix A of the August 7, 2006 Report.

Appendix 1 to this Supplemental Report lists portable pumps owned by signatories to the Mutual Aid Agreement. This list has been annotated to show 9 portable pumps which are compatible with use of the Sewer Bypass Hose Reel System. Pump locations are fairly evenly distributed from South Lake Tahoe to Truckee.

B. Additional Letters of Support

TAHOE-TRUCKEE SANITATION AGENCY

A Public Agency
13720 Joerger Drive
TRUCKEE, CALIFORNIA 96161
(530) 587-2525 • FAX (530) 587-5840

Directors
O.R. Butterfield
Dale Cox
Erik Henrikson
S. Lane Lewis
Jon Northrop
General Manager
Craig F. Woods

14 August 2006

RECEIVED
AUG 16 2006
NORTH TAHOE P.U.D.

Leon C. Schegg, P.E.
North Tahoe Public Utility District
P. O. Box 139
Tahoe Vista, CA 96148

RE: Support for Purchase and Regional Availability of Sewer Bypass Hose Reel System

Dear Lee:

This letter is written in support of North Tahoe PUD's purchase of a trailer mounted sewer bypass hose system that could be used in times of emergency by Tahoe-Truckee Sanitation Agency (T-TSA), along with other parties to the Tahoe Truckee Area Emergency Contingency Plan Agreement for Mutual Emergency Aid.

The purchase of such equipment, and its being made available to our local agencies at critical times during unforeseen events, could be extremely beneficial to the sewer collection districts in the Lake Tahoe and Truckee areas. All of the local districts have experienced flood events over the past several years which have taxed the capacity and integrity of their respective facilities. This equipment could conceivably be used by T-TSA, in addition to its own equipment and equipment made available by other agencies, if T-TSA were to experience a break in its Truckee River Interceptor pipeline that required a temporary bypass to the line until repairs could be completed.

T-TSA supports NTPUD's proposal to purchase and make available this equipment along with the cooperative mutual aid efforts of all of the districts in the area.

Sincerely,

Marcia A. Beals
Assistant General Manager

mbst

South Tahoe
Public Utility District

1275 Meadow Crest Drive • South Lake Tahoe • CA 96150-7401
Phone 530 544-6474 • Fax 530 541-0614 • www.stpud.us

August 15, 2006

Leon C. Schegg, P.E.
Public Works Director
North Tahoe Public Utility District
P.O. Box 139
Tahoe Vista, CA 96148

Subject: Support for the Acquisition of Regional Emergency Response Asset

Dear Lee:

It is the South Tahoe Public Utility District's (District) understanding that NTPUD intends to purchase 8-inch and 10-inch lay flat hose on a hydraulic reel system and make it available to regional sewer entities for mitigation of sewer emergencies and use during planned maintenance efforts. This letter is to express support from the District for the acquisition and subsequent availability of a trailer mounted sewer bypass hose system.

The District currently operates and maintains over 420 miles of gravity sewer pipelines, 40 sanitary sewer pump stations, and 26 miles of treated effluent export pipeline. Many of these facilities are in environmentally sensitive areas where response time to emergencies and availability of equipment is critical.

The local availability of over 4,800 feet of hose would provide another tool to respond appropriately to potential emergencies in our sanitary sewer collection and effluent disposal systems. On behalf of the District, we extend our appreciation to NTPUD for their forethought in purchasing and providing an asset that will benefit every sanitary agency in the Lake Tahoe basin.

If you have any questions or need additional information please contact me at (530) 543-6202.

Sincerely,

Paul A. Sciuto, P.E.
Assistant General Manager/Engineer

BOARD OF DIRECTORS
Robert W. Affeldt, DDS
Jerry Gilmore
Brian Kent Smart
Michael F. Sullivan
Ron Sweet

THOMAS S. SELFRIDGE, P.E.
General Manager
Chief Engineer

12304 Joerger Dr. • Truckee, California 96161-3312
Telephone (530) 587-3804 • Fax (530) 587-1340

August 16, 2006

Mr. Leon C. Schegg, P.E.
Public Works Director
North Lake Tahoe Public Utility District
P.O. Box 139
Tahoe Vista, CA 96148

SUBJECT: ACQUISITION OF A TRAILER MOUNTED SANITARY SEWER HOSE REEL TRAILER

Dear Mr. Schegg,

The purpose of this letter is to express the Truckee Sanitary District's (TSD) support of the North Tahoe Public Utility District's proposal to acquire a sewer hose reel trailer loaded with 8 and 10 inch lay-flat hose. This emergency response equipment would be a significant asset to all the sewer collection agencies in the greater Tahoe area.

The TSD, which owns and operates approximately 200 miles of sewer mains and 38 lift stations in and around Truckee, recently purchased a similar piece of equipment, loaded with 6-inch hose, and has already received tangible benefits both in its routine preventative maintenance operations and in one emergency bypass event. At the beginning of this construction season, TSD was able to reduce a potentially significant sewer spill into an inconsequential one because of the rapid response time allowed by the trailer-mounted bypass hose reel system. A second trailer-mounted system in the Tahoe-Truckee area, fitted with larger diameter hose for higher flow bypass events, would be extremely valuable as it is not uncommon for the weather-related events to result in sewer issues at multiple districts.

TSD commends your forward-looking approach in seeking the acquisition of this equipment and hopes that you are successful in soliciting the funds necessary to purchase it.

If we can be of any further assistance, please don't hesitate to contact us.

Sincerely,

Thomas S. Selfridge

Thomas S. Selfridge, P.E.
General Manager/Chief Engineer

Appendix 1. Portable Pump Inventory from Contingency Plan Annotated To Indicate Bypass Hose Compatible Pumps

TABLE I-8 PORTABLE PUMPS	
AGENCY/QUANTITY	EQUIPMENT
Alpine Springs County Water District	
2	2" Gas powered Pumps
Douglas County Sewer Improvement District No. 1	
2	3" Gasoline Driven Pumps
1	2" Submersible Electric Pump
1	3" Submersible Electric Pump
Incline Village General Improvement District	
1	4" Trash Pump, Godwin 300GPM @ 75' head
1	2" Centrifugal Pump (water only) trailer-mount, 500 GPM
2	1-1/2" Centrifugal Pumps (water only), 50 GPM
BYPASS HOSE COMPATIBLE PUMP 1	6" Gorman trailer-mounted diesel, 1100 GPM
3	1-1/2" Centrifugal Pump (sewer or water), 50 GPM
2	500 GPM hydraulic operated trash pumps with power units
North Star CSD	
1	2" 3.5 HP Honda pump 150 GPM. 250 feet of 2" discharge hose
1	2" 5 HP Honda trash pump 180 GPM 100. 100 feet of 2" discharge hose
North Tahoe Public Utility District	
BYPASS HOSE COMPATIBLE PUMP 1	8" Godwin Sewer Pump
1	1-1/2" 2 cycle Homelite 200 GPM
1	1-1/2" 2 cycle Homelite 192 GPM
2	3" 5 HP Diaphragm Pump, 50 GPM
1	2" Gorman Rupp Trash Pump, 100 GPM
1	4" trailer-mount G-R Pump (potable water only) 800 GPM
Squaw Valley Public Services District	
1	2" Honda, gasoline-powered Water Pump, 180 GPM
BYPASS HOSE COMPATIBLE PUMP 1	6" Trash Pump, Trailer Mounted, Diesel, 1100 GPM

1	2" Rupp gas-powered Trash Pump, 10 hp, 200 GPM
South Tahoe Public Utility District	
Sewer Pumps:	
***BYPASS HOSE COMPATIBLE PUMP** 2	8" Godwin Trash Pump – 2000 GPM
***BYPASS HOSE COMPATIBLE PUMP** 2	6" Barnes Trash pumps, 1200 GPM
2	45 HP Submersible Pumps, 2000 GPM @ 35' to be used with 100 KW Generator
1	20 HP Submersible Pump, 1600 GPM @ 12' to be used with 100 KW Generator
Tahoe City Public Utility District	
Fresh Water Pumps:	
1	15 HP Submersible Deep Well 120 GPM
2	30 HP Submersible Deep Well 400 GPM
1	50 HP Berkeley Horizontal 400 GPM
Trash Pumps:	
2	3" Hydraulic operated Submersible Pumps 300 GPM @ 30'
1	2" Hydraulic operated Submersible Pump 300 GPM @ 30'
1	3" Honda Centrifugal Pump 250 GPM @ 15'
Tahoe-Truckee Sanitation Agency	
***BYPASS HOSE COMPATIBLE PUMP** 1	10" Peabody Barnes Trash Pump, 4 MGD, 1500 ft Discharge, 40' Head Maximum
1	12" x 12" Gorman-Rupp, 5 MGD, 3140' irrigation type Discharge Pipe, 70' Head max.
2	3" Homelite Gas-powered, 326 GPM
2	3" Honda 326 GPM
1	1" pneumatic positive disposable pump
1	2" pneumatic positive disposable pump
1	2 ½" pneumatic positive disposable pump
1	3" electric diaphragm 110v
Truckee Sanitary District	
2	3" Hydraulic Trash Pump for use with Vactor
1	1-1/2" Homelite 50 feet of discharge hose
1	3" Homelite Gas 360 GPM, 50' of 4" Discharge hose
1	30 HP, 240 VAC, 3-phase Pump, 1000 GPM at 55' discharge head, trailer-mounted. Will handle 3" solids. Suction hose plus 60' of discharge hose.
***BYPASS HOSE COMPATIBLE PUMP** 1	6" Godwin Pump, trailer mount 1500 GPM

1	4" Godwin Pump, trailer mount 475 GPM
2	8' x 6" bypass traffic ramps
1800'	pf 6", 200 psi, Lay flat bypass hose
U.S. Forest Service - South Lake Tahoe	
1	Mark III 60 GPM Pacific Pumper
2	small 4-cycle Pumps, 40 GPM est.
1	4-cylinder Pump, 500 GPM est.
1	500 gallon Water Trailer
1	Homelite 385 GPM Trash Pump