SEWER SYSTEM MANAGEMENT PLAN

Prepared for
San Bernardino Community College District
June 2016

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BACKGROUND AND INTRODUCTION

A. Introduction

The San Bernardino Community College District includes two college campuses, a professional development center, and a public broadcast system. One of the college campuses, the San Bernardino Valley College, is located in the City of San Bernardino. The Crafton Hills College, is located on a hillside in the City of Yucaipa. The general boundaries for both colleges are shown in Attachment 5. The wastewater collection for the San Bernardino Valley College discharges to the City of San Bernardino for conveyance to the City’s wastewater treatment plant for treatment and disposal of the water. The wastewater collection for the Crafton Hills College discharges to the City of Redlands for treatment and disposal of the wastewater generated on the campus. The connection to the City of Redlands is through a trunk sewer that extends from the northwest corner of the campus to the eastern edge of the City.

With the exception of a small pumping station in basement of the Performing Arts Center at the Crafton Hills College campus, both wastewater collection systems are composed entirely of gravity flow pipelines and manholes.

B. SSMP Purpose and Objectives

This document has been developed to comply with SWRCB’s General Waster Discharge Requirement (WDR) order No. 2006-0003 and sets specific wastewater collection system requirements and upholds State water quality standards. The WDR requires permittees to prepare and implement a SSMP in order to:

- Provide a plan and schedule to properly manage, operate, and maintain all parts of the sanitary sewer system in order to provide reliable service in the future,
- Reduce and prevent SSOs,
- Help mitigate any SSOs that do occur.

Sanitary sewer overflows are overflows from sanitary sewer systems of domestic, industrial, and/or commercial wastewater. SSOs may cause a public nuisance, particularly when untreated wastewater is discharged to waters designated for contact recreation. Proactively manage the sewage system in a way that prevents SSOs.

Introductory summary of the General Waste Discharge Requirement is shown in Appendix 4.
SECTION 1 - GOALS

The goal of the SSMP is to provide a plan and schedule to properly manage, operate, and maintain all parts of the sanitary sewer system. This will help reduce and prevent SSOs, as well as mitigate any SSOs that do occur.

The San Bernardino Community College District has established the goals to guide the development, implementation and success of San Bernardino Valley College and the Crafton Hills SSMPs. These goals are designed to facilitate and target the management, operation and maintenance of the sanitary sewer collection system in a manner that will sustain the infrastructure, protect public health and the environment, and achieve compliance with State Water Resources Control Board’s General Waste Discharge Requirement (WDR) for Sanitary Sewer Systems. These goals include:

- Provide a plan and schedule to properly manage, operate, and maintain all parts of the sanitary sewer system in order to provide reliable service in the future,
- Reduce and prevent SSOs,
- Help mitigate any SSOs that do occur
- Identify, prioritize, and continuously renew and replace sewer system facilities to maintain reliability
- Implement regular, proactive maintenance of the system to remove roots, debris, and fats, oils and grease in areas prone to blockages that may cause sewer backups or SSOs
SECTION 2 - ORGANIZATION

A. Organization Requirements

The WDR SSMP organization requirement specifies that each SSMP identify the following:

1. The name of the agency’s responsible or authorized representative.

2. The names and telephone numbers for management, administrative, and maintenance positions responsible for implementing specific measures in the SSMP program. The SSMP must identify lines of authority through an organization chart or similar document with a narrative explanation; and

3. The chain of communication for reporting SSOs, from receipt of a complaint or other information, including the person responsible for reporting SSOs to the State and Regional Water Board and other agencies if applicable (such as County Health Officer, County Environmental Health Agency, Regional Water Board, and/or State Office of Emergency Services [OES]).

The names of the agency’s responsible or authorized representatives for each of the District’s two campuses are listed in Appendix 2.

Name and telephone numbers for key management, administrative, and maintenance positions for implementing specific measures in the SSMP program are listed in Appendix 2.

The SSMP Responsibility Organization Chart for the San Bernardino Valley College is illustrated in Figure 2.
Figure 2-1
San Bernardino Community College District (SBCCD)
SSMP Responsibility Organization Chart

Board of Trustees
Funding and Approval of Final SSMP

Chancellor

College Presidents
San Bernardino Valley & Crafton Hills
Oversees all campus operations

Vice Chancellor, Fiscal Services
Design & Inspection Standards
Capacity Assurance Plan

Vice Presidents
Administrative Services
Oversight of Wastewater System
Alternative Legally Responsible Official

Directors
Facilities, Operations & Maintenance
Responsible for Operation and Maintenance of
Sanitary System and for the Preparation of the SSMP
Legally Responsible Officials

Sewer Contractors
Emergency Response
Maintenance
Descriptions of the positions are included below.

**Board of Trustees**

The Board of Trustees of the San Bernardino Community College District is the governing body of the District. The Board is established by, and derives its power and duties from, the Constitution of the State of California and the Statutes of California as adopted by the Legislature and issued in the *California Education Code*, and the directives of the Board of Governors, California Community Colleges, listed in *Title V, California Code of Regulations*.

Seven trustees, elected from the communities served by the District, govern the San Bernardino Community College District. Trustees serve a four-year term. There are also non-voting student trustees that serve a one-year term.

The Board of Trustees is responsible for approving budgets and setting policy. The Chancellor provides overall management of the District.

**Vice Chancellor, Fiscal Services**

The Vice Chancellor of Fiscal Services manages all functions associated with facility planning, construction and capital outlay of the District. The Vice Chancellor develops strategies for funding and requests funding as appropriate. The responsibility for this position includes formulating and administering District policy concerning the aforementioned functions and providing contract administration to Colleges. Activities include, but are not limited to, planning, organizing, staffing, directing, and controlling resources.

**Presidents, San Bernardino Valley and Crafton Hills Colleges**

The Presidents of the two Colleges plan, organize, coordinate, direct and administer all departments, programs, activities, budgets and personnel of the respective college; implements District policies and procedures as they affect college activities; represents the college to the community and directs the development of quality educational programs; participates in the development, review and addressing of general District policies; performs related duties as required.

**Vice Presidents, Office of Administrative Services**

The Vice Presidents of Administrative Services for the two campuses are responsible for planning, organization, implementation, and evaluation of all areas assigned to the Administrative Services unit. Primary responsibilities include: budget development, fiscal operations, fiscal accountability, facilities management, student cashiering, bookstore, business office, custodial, food services, grounds, maintenance, and other duties.

The Vice Presidents of Administrative Services are also alternate Legally Responsible Officials (LRO) for the SSO WDR. These individuals take the lead on responding to any sanitary sewer
overflows and meeting reporting requirements during the absence of the respective campus Director of Facilities, Operations, & Maintenance.

**Directors, Facilities, Operations and Maintenance**

The Directors of Facilities, Operations, & Maintenance are responsible for planning, coordinating, and directing the maintenance and operations activities of the two colleges, including having the responsibility for the physical condition of the buildings, grounds, and equipment, and participates in the design, review, and integration of construction projects. The Directors maintain compliance with District policies and local, state, and federal laws and regulations.

The Directors for Facilities, Operations, & Maintenance are the Legally Responsible Officials (LRO) for the monitoring and reporting requirements of the SSO WDR. They also have the overall responsibility for reporting SSOs to the State and Regional Water Board and other agencies as applicable.

**Sewer Contractors**

The District plans to use National Plant Services for long term maintenance, including annual sewer line cleaning and CCTV inspection services as necessary.

Emergency Management Technologies (EMT) will provide emergency spill/clean-up response.

Name and telephone number of sewer contractors are listed in Appendix 2.

**Contact List – Personnel Responsible for SSO Reporting**

Name and telephone number of San Bernardino Community College District’s (SBCCD) staff responsible for reporting SSOs to the SWQCB, RWQCB and other applicable agencies are listed in Appendix 2.

The chain of communication for reporting SSOs, from receipt of a complaint or other information, including the person responsible for reporting SSOs to the State and Regional Water Board and other agencies, is shown in Appendix 2.
SECTION 3 - LEGAL AUTHORITY

The WDR SSMP Legal Authority requirement specifies that each Enrollee must demonstrate, through sanitary sewer system use ordinances, service agreements, or other legally binding procedures, that it possesses the necessary legal authority to:

1. Prevent illicit discharges into its sanitary sewer system, (examples may include I/I, stormwater, chemical dumping, unauthorized debris and cut roots, etc).
2. Require that sewers and connections be properly designed and constructed;
3. Ensure access for maintenance, inspection or repairs for portions of the lateral owned or maintained by the Public Agency;
4. Limit the discharge of FOG and other debris that may cause blockages, and
5. Enforce any violation of its sewer ordinances.

The San Bernardino Community College District owns all of the buildings and facilities at the San Bernardino Valley College and the Crafton Hills College. Neither campus allows outside vendors to rent space and sell food that would create any illicit discharge of fats, oil, or grease into either campus’s sewer system. Since the District owns all facilities and is the employer of all of the staff who work at both campuses, the District inherently has the authority to:

A. Prevent illicit discharges into its sanitary sewer system.
B. Require that sewers and connections be properly designed and constructed.
C. Ensure access for maintenance, inspection, or repairs for portions of the lateral owned or maintained by the District.
D. Limit the discharge of fats, oils, and grease and other debris that may cause blockages
E. Enforce any violation of its sewer ordinances.

Under these conditions, the Campus has the required legal authority stipulated in the WDR and no further action is needed by the District to comply with this element of the WDR.
A. Operation and Maintenance Program Requirements

The WDR SSMP Operation and Maintenance Program requirement specifies that each SSMP must include those elements listed below that are appropriate and applicable to the Enrollee’s system:

1. Describe routine preventive operation and maintenance activities by staff and contractors, including a system for scheduling regular maintenance and cleaning of the sanitary sewer system with more frequent cleaning and maintenance targeted at known problem areas. The Preventative Maintenance (PM) program should have a system to document scheduled and conducted activities, such as work orders;

2. Maintain an up-to-date map of the sanitary sewer system, showing all gravity line segments and manholes, pumping facilities, pressure pipes and valves, and applicable storm water conveyance facilities;

3. Develop a rehabilitation and replacement plan to identify and prioritize system deficiencies and implement short-term and long-term rehabilitation actions to address each deficiency. The program should include regular visual and television inspections of manholes and sewer pipes, and a system for ranking the condition of sewer pipes and scheduling rehabilitation. Rehabilitation and replacement should focus on sewer pipes that are at risk of collapse or prone to more frequent blockages due to pipe defects. Finally, the rehabilitation and replacement plan should include a capital improvement plan that addresses proper management and protection of the infrastructure assets. The plan shall include a time schedule for implementing the short- and long-term plans plus a schedule for developing the funds needed for the capital improvement plan;

4. Provide training on a regular basis for staff in sanitary sewer system operations and maintenance, and require contractors to be appropriately trained; and

5. Provide equipment and replacement part inventories, including identification of critical replacement parts.

The sewer system has been re-televised in 2015.

B. Rehabilitation and Replacement Plan

National Plant Services performed closed-circuit television (CCTV) inspections and structurally rated the sewer infrastructure for both colleges. The televising prioritized to focus on those sewers with the most potential for repair needs. Maintenance history, past overflow records, sewer locations, and age will be some of the factors used to prioritize the televising schedule.

The digital video pipeline inspection system has been selected. This system allows for the most consistent and thorough collection of data. Under this system, a CCTV van crew gathers video and data for each pipe segment to identify any deficiencies and engineers review the tapes and video logs to determine if the sewer facilities should be repaired or replaced immediately, or scheduled for future improvements.
**SEWER SYSTEM MANAGEMENT PLAN**

This program utilizes state-of-the-art digital video technology to inspect and identify the existing condition of the sewer collection system and to simplify a host of wastewater management tasks. This new system allows for the most consistent and thorough collection of data and helps comply with new State Water Resources Control Board Waste Discharge Requirements for sewer collection system owners and operators.

This program uses the Pipeline Assessment and Certification Program (PACP) rating system, which was developed by the National Association of Sewer Service Companies (NASSCO). PACP requires CCTV operators to code defects either by infrastructure or maintenance defect. Each defect code is assigned a grade of 1 to 5. With 1 being the least severe and 5 being the most severe defect. These grades only consider the internal pipe conditions obtained from the televised inspection. After a sewer segment has been inspected, several grading systems can be applied to determine the most severe pipe segments.

One of the Condition Grading Systems most commonly used is the Quick Rating. This indicates the number of occurrences for the two highest severity grades for each pipe segment for either maintenance or infrastructure defects. A grade of 1 indicates that a pipe segment is in excellent condition with minor defects and failure is unlikely in the foreseeable future, while a grade of 5 indicates that a pipe segment may require immediate attention. An example of a quick rating may be: 5249, where there are two defects with a grade 5 rating, and 9 defects with a grade 4 rating.

Using the Quick Ratings, we determine the priority list for our maintenance crews, and infrastructure repairs. We mainly consider sewer segments that have Quick Ratings, with 4100 or more for maintenance or repair. Sewer segments with infrastructure defects are reviewed for repair, and are sorted into three categories: 1- Immediate repair, 2- Scheduled repair within 10 years, and 3- May need repair after 10 years will be re-assessed during the next round of CCTV inspection.

A detailed breakdown of the five possible defect grades and their estimated time to failure is as follows:

<table>
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<tr>
<th>Grade</th>
<th>Description</th>
<th>Estimated time to Failure</th>
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<tr>
<td>1</td>
<td>EXCELLENT: Minor Defects.</td>
<td>Unlikely in the foreseeable future</td>
</tr>
<tr>
<td>2</td>
<td>GOOD: Defects that have not begun to deteriorate.</td>
<td>20 years or more</td>
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<tr>
<td>3</td>
<td>FAIR: Moderate defects that will continue to deteriorate.</td>
<td>10 to 20 years</td>
</tr>
<tr>
<td>4</td>
<td>POOR: Severe defects that will become grade 5 defects within the foreseeable future.</td>
<td>5 to 10 years</td>
</tr>
<tr>
<td>5</td>
<td>IMMEDIATE ATTENTION: Defects requiring immediate attention.</td>
<td>Has failed or will likely fail within the next 5 years</td>
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SEWER SYSTEM MANAGEMENT PLAN

1. Crafton Hills College

The master plan and latest televising report concluded that the sanitary sewer system appeared to be well maintained and functions properly.

It is recommended continued maintenance of cleanouts, manholes, and sanitary sewer lines.

Improvements

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<tr>
<td>Start MH</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
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<tr>
<td>3</td>
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2. San Bernardino Valley College

**Condition**

Previous SSMP stated that sewer mains are cracked and failing. Based on re-televised report of 2015 most of the cracks are Grade 2

**Improvements**

No immediate repairs were recommended for the this campus sewer system.

It is recommended continued maintenance of cleanouts, manholes, and sanitary sewer lines.

The latest televising report does not show that system is over capacity and undersize as stated in previous SSMP. It is recommended to perform sewer manhole monitoring in couple of years at critical junctions.
SECTION 5 - DESIGN AND PERFORMANCE PROVISIONS

A. Design and Performance Provisions Requirements

The WDR SSMP Design and Performance Provision requirement specifies that each Enrollee have the following:

1. Design and construction standards and specifications for the installation of new sanitary sewer systems, pump stations and other appurtenances; and for the rehabilitation and repair of existing sanitary sewer systems; and

2. Procedures and standards for inspecting and testing the installation of new sewers, pumps, and other appurtenances and for rehabilitation and repair projects.

District standards will be developed by the engineer of record for the District’s infrastructure project in 2010/2011. Consideration will be given to use the County of San Bernardino Special Districts Department Standards for Sanitary Sewers shown below.

1. Sewer pipeline materials are limited to:
   a. Vitrified clay pipe (VCP) per the County’s standards
   b. SDR 26 polyvinyl chloride (PVC) pipe
   c. Class 50 or higher ductile iron pipe (DIP)

2. Manholes sidewalls will be limited to precast concrete

3. Air testing shall be used for testing manholes for leakage

4. All new sewer pipelines shall be internally inspected using closed circuit television (CCTV) equipment

These Standards may set the design and construction standards and specifications for the installation of new sanitary sewer systems, pump stations and other appurtenances needed for the construction of new improvements and for the rehabilitation and repair of the two existing sanitary sewer systems.

ITF & Associates, Inc. will be responsible for the design and inspection of sewer system improvements upon request from the District.
SECTION 6 - OVERFLOW EMERGENCY RESPONSE PLAN

A. Overflow Emergency Response Plan Requirements

The WDR SSMP requirements specify that each Enrollee shall develop and implement an Overflow Emergency Response Plan (OERP) that identifies measures to protect public health and the environment. At a minimum, this plan must include the following:

1. Proper notification procedures so that the primary responders and regulatory agencies are informed of all SSOs in a timely manner.
2. A program to ensure an appropriate response to all overflows.
3. Procedures to ensure prompt notification to appropriate regulatory agencies and other potentially affected entities (e.g. health agencies, Regional Water Boards, water suppliers, etc.) of all SSOs that potentially affect public health or reach the waters of the State in accordance with the Monitoring and Reporting Program (MRP). All SSOs shall be reported in accordance with this MRP, the California Water Code, other State Law, and other applicable Regional Water Board WDRs or NPDES permit requirements. The SSMP should identify the officials who will receive immediate notification.
4. Procedures to ensure that appropriate staff and contractor personnel are aware of and follow the Emergency Response Plan and are appropriately trained.
5. Procedures to address emergency operations, such as traffic and crowd control and other necessary response activities.
6. A program to ensure that all reasonable steps are taken to contain and prevent the discharge of untreated and partially treated wastewater to waters of the United States and to minimize or correct any adverse impact on the environment resulting from the SSOs, including such accelerated or additional monitoring as may be necessary to determine the nature and impact of the discharge.

B. Response Program and Notification Procedures

The District has developed an Overflow Emergency Response Plan which is located in Appendix 5.

This plan lists the Recommended Emergency Notification & Mitigation Procedures.

The chain of communication for reporting SSOs is included in the figure below.
SECTION 7 - FOG CONTROL PROGRAM

The WDR SSMP Fog Control Program requirement specifies that each Enrollee shall evaluate its service area to determine whether a FOG control program is needed. If an Enrollee determines that a FOG program is not needed, the Enrollee must provide justification for why it is not needed. If FOG is found to be a problem, the Enrollee must prepare and implement a FOG source control program to reduce the amount of these substances discharged to the sanitary sewer system.

FOG source control program shall include the following:

1. An implementation plan and schedule for a public education outreach program that promotes proper disposal of FOG;
2. A plan and schedule for the disposal of FOG generated within the sanitary sewer system service area. This may include a list of acceptable disposal facilities and/or additional facilities needed to adequately dispose of FOG generated within a sanitary sewer system service area;
3. The legal authority to prohibit discharges to the system and identify measures to prevent SSOs and blockages caused by FOG;
4. Requirements to install grease removal devices (such as traps or interceptors), design standards for the removal devices, maintenance requirements, Best Management Practice (BMP) requirements, record keeping and reporting requirements;
5. Authority to inspect grease producing facilities, enforcement authorities, and whether the Enrollee has sufficient staff to inspect and enforce the FOG ordinance;
6. An identification of sanitary sewer system sections subject to FOG blockages and establishment of a cleaning maintenance schedule for each section; and
7. Development and implementation of source control measures for all sources of FOG discharged to the sanitary sewer system for each section identified in (f) above.

The District has not had a FOG related overflow, thus, it has never had a grease related (FOG) overflow. However: a formal FOG program is required for the San Bernardino Valley College. The District has installed a grease interceptor outside the Campus Center and also outside of the Child Development Center. These are serviced by staff. There are also under-the-sink grease traps installed under the sinks in the cafeteria and the tea room.

All Food Service Establishments (FSEs) shall implement best management practices (BMPs) in their operation to minimize the discharge of FOG to the sewer system. All FSEs shall be required, at a minimum to implement and comply with the following Kitchen BMPs, whenever applicable:

(1) Drain screens shall be installed on all drainage pipes in food preparation areas.
(2) All waste cooking oil shall be collected and stored properly in recycling receptacles such as barrels or drums. Such recycling receptacles shall be maintained properly to ensure that they do not leak. Licensed waste haulers or an approved recycling facility must be used to dispose of waste cooking oil.
(3) All garbage and food waste shall be disposed of directly into trash bins or containers, and not in sinks.
(4) Employees of the FSEs shall be trained within 2 weeks of hire and twice each calendar year thereafter.

(5) Training shall be documented and employee signatures retained indicating each employee's attendance and understanding of the practices reviewed.

(6) Kitchen BMP and other signs, posters or similar information in appropriate language(s) shall be prominently displayed in the food preparation and dishwashing areas at all times.

(7) Covered conveyance devices shall be used in order to transport FOG without spilling.

(8) FOG containers shall be emptied before they are full to avoid accidental or incidental spills.

All grease interceptors shall be operated in accordance with the manufacturer's specifications.

Grease interceptors shall be maintained in efficient operating condition by periodic removal of the full content of the interceptor.
The WDR SSMP System Evaluation and Capacity Assurance Plan requirements specifies that each Enrollee shall prepare and implement a capital improvement plan (CIP) that will provide hydraulic capacity of key sanitary sewer system elements for dry weather peak flow conditions, as well as the appropriate design storm or wet weather event. At a minimum, the plan must include:

1. **Evaluation.**

   The District’s Sewer Master Plan incorporates a hydraulic analysis of the sewer mains in the system. The peak flow estimates are estimated using flow coefficients developed by the District based on land usage. The flow coefficients used by the District have been compared to the coefficients used by County of San Bernardino Special District Departments. The capacity of each line is determined and those lines unable to handle future master planned flows are identified. The current system capacity is able to handle, without surcharge, the current dry weather and wet weather peak sewer flows.

2. **Design Criteria.**

   The District has adopted the industry standard of designing new sewer lines up to 18 inches in diameter. The criteria is as follow: All gravity feed sewer pipe up to and including eight (8) inch diameter shall be sized to carry the peak flow when fifty percent (50%) full. This requirement shall apply regardless of the cross section shape of the sewer. All larger sewer pipe, except those designed as laterals, shall be sized to carry the peak flow when seventy-five (75%) full. This requirement shall apply regardless of the cross-section of the sewer. No sewer main with an internal diameter less than eight (8) inches shall be installed without prior written approval of the District.

   Other requirements are shown in Section V.

3. **Capacity Enhancement Measures.**

   The District’s plan includes the short and long term CIP to address identified hydraulic deficiencies as shown in previous sections.

   The District is also active in reducing Inflow and Infiltration (I/I). The District has ruled out Infiltration as a source of water in the system but has identified Inflow as a source of water. It is recommended to consider completely sealing all manholes in alley type flow and completely sealing manholes in the vicinity of gutters or curb and gutter.

4. **Schedule.**

   The District will develop a schedule of completion dates for all portions of the CIP developed in previous Sections. This schedule should be reviewed and updated on annual bases. The next CIP update should be performed within 5 years.
The WDR SSMP Monitoring, Measurement, and Program Modification requirement specifies that each Enrollee shall do the following:

1. Maintain relevant information that can be used to establish and prioritize appropriate SSMP activities;
2. Monitor the implementation and, where appropriate, measure the effectiveness of each element of the SSMP;
3. Assess the success of the preventative maintenance program;
4. Update program elements, as appropriate, based on monitoring or performance evaluations; and
5. Identify and illustrate SSO trends, including: frequency, location, and volume.

The SSMP will be reviewed yearly to insure all the provisions are implemented and the effectiveness discussed at a meeting of all field staff. Updates will occur as appropriate but will occur no longer than once every five years. Performance evaluations are ongoing because the daily operation of the District includes all the elements of the program. District Staff will request the Board of Directors include a yearly or regular appropriation to fund the updating.

The sewer maintenance measures will include the cleaning of entire sewer system every two years.
SECTION 10 - SSMP PROGRAM AUDITS

The WDR SSMP Program Audits requirements specify that each Enrollee shall conduct periodic internal audits, appropriate to the size of the system and the number of SSOs. At a minimum, these audits must occur every two years and a report must be prepared and kept on file. This audit shall focus on evaluating the effectiveness of the SSMP and the Enrollee’s compliance with the SSMP requirements.

The District will perform periodic internal audits to determine the effectiveness of each element of the SSMP.

The District audit schedule is as follows:

1. Every two years following the adoption and approval of this SSMP.
2. This SSMP will be updated every five years from the date of adoption and approval and will include all significant program changes that have occurred following the last District Board of Directors approval.

The District will monitor and review sewer performance on a regular basis. The District will initiate/direct corrective action to be taken when and if SSMP deficiencies are identified between/during periodic internal audits.

When significant changes are made to the SSMP that require re-certification, the District will enter the data in the online SSO database and mail the form to the State Water Board.
SECTION 11 - COMMUNICATION PROGRAM

The WDR SSMP Communication Program requirement specifies that each Enrollee shall communicate on a regular basis with the public on the development, implementation, and performance of its SSMP. The communication system shall provide the public the opportunity to provide input to the Enrollee as the program is developed and implemented.

The Enrollee shall also create a plan of communication with systems that are tributary and/or satellite to the Enrollee’s sanitary sewer system.

The District Engineer will provide interested parties with status updates on the implementation of the components of the SSMP and will also consider comments made by interested parties.
**Terms**

**Authorized Representative** – The person designated, for a municipality, state, federal or other public agency, as either a principal executive officer of ranking elected official, or a duly authorized representative of that person.

**Blockage** – Something that partially or fully blocks the wastewater from flowing through a sewer pipeline. The blockage can be caused by debris in the sewer, grease buildup, root intrusion, or a partial or full collapse of the pipeline. If not caught in time, the blockage may cause an overflow. This is also called a stoppage.

**California Water Environment Association (CWEA)** – CWEA is an association of 8,000-plus professionals in the wastewater industry. CWEA is committed to keeping California’s water clean. CWEA trains and certifies wastewater professionals, disseminates technical information, and promotes sound policies to benefit society through protection and enhancement of the water environment. CWEA offers services at the state level and locally through 17 geographical local sections. Through their on-line bookstore, CWEA offers technical references for sewer system operation and maintenance. Website: [http://www.cwea.org/](http://www.cwea.org/).

**Santa Ana Regional Water Quality Control Board** – Also known as the Regional Water Board or RWQCB. The mission of this state regulatory agency is to: preserve, enhance and restore the quality of California’s water resources, and ensure their proper allocation and efficient use for the benefit of present and future generations. Website: [http://www.waterboards.ca.gov/santaana/](http://www.waterboards.ca.gov/santaana/).

**Enrollee** – The legal public entity that owns a sanitary sewer system, as defined by the GWDR, which has submitted a complete and approved application for coverage under the GWDR. This is also called a sewer system agency or wastewater collection system agency.

**Fats, Oils and Grease (FOG)** - Fats, oils, and grease that are discharged into the sanitary sewer collection system by Food Service Establishments (FSE), homes, apartments and other sources. FOG is a major cause of blockages leading to increased maintenance and sometimes SSOs.

**FOG Control Program** – To be implemented at the Enrollee’s discretion. May include public education program; plan and schedule for the disposal of FOG; legal authority to prohibit FOG related discharges; requirement to install grease removal devices; authority to inspect grease producing facilities; identification of sanitary sewer system sections subject to FOG blockages and the establishment of a cleaning schedule for each section; development and implementation of source control measures for all sources of FOG.

**Geographical Information System (GIS)** – A database linked with mapping, which includes various layers of information used by government officials. Examples of information found on a GIS can include a sewer map; sewer features such as pipe location, diameter, material, condition, last date cleaned or repaired. The GIS also typically contains base information such as streets and parcels.
**Governing Board** – This is the governing board of the sewer entity developing the SSMP. Examples would be the Board of Directors, the City Council, or the County Board of Supervisors.

**GWDR – General Waste Discharge Requirements** – A GWDR is an authorization to discharge waste with certain conditions, which can be issued on an individual basis or to a group of dischargers. The Statewide General WDR for Sanitary Sewer Systems was adopted by the SWCRB and will be implemented by the Regional Water Boards and SWRCB.

**Groundwater Induced Infiltration (GWI)** – Infiltration attributed to groundwater entering the sewer system.

**Infiltration** – The entry of groundwater into a sewer system, including service connections. Infiltration occurs through defects in the piping network including defective or cracked pipes, pipe joints, and through defects in manhole walls and joints.

**Inflow** – Stormwater runoff entry into a sewer system from such sources as roof leaders, cellars, yard and area drains, foundation drains, cooling water discharges, drains from springs and swampy areas, around manhole covers that are not properly sealed to the top of manholes or through holes in the covers, and cross connections from storm sewer systems and catch basins. Inflow differs from infiltration in that it is a direct discharge into the sewer rather than seepage of groundwater into the sewer.

**Lateral** – The portion of sewer that connects the waste plumbing from a home or business with the sewer main pipeline in the street. Some sewer system agencies own or maintain a portion of the lateral.

- **Upper Lateral**: Portion of lateral from building to property line (or easement line), usually privately owned and maintained.
- **Lower Lateral**: Portion of lateral from property line (or easement line) to sewer mainline in the street or easement. This portion of the lateral is sometimes privately owned and maintained and sometimes publicly owned and maintained.

**Monitoring and Reporting Program** - The Monitoring and Reporting Program established in the WDR that establishes monitoring, record keeping, reporting and public notification requirements for the GWDR.

**Overflow Emergency Response Plan** – Identifies measures to protect public health and the environment. A plan must include the following: notification procedure, appropriate response plan, regulatory notification procedures, employee training plan, procedures to address emergency operations, a program that ensures all reasonable steps are taken to contain and prevent discharges.

**Private Lateral**: That portion of the lateral that is owned and maintained by the private property owner that it serves. Based on an individual agency’s ordinance, this may just be the upper lateral or can include the lower lateral.

**Preventative maintenance (PM)** – Regularly scheduled servicing of machinery, infrastructure or other equipment using appropriate tools, tests, and lubricants. This type of maintenance can
prolong the useful life of equipment, infrastructure, and machinery and increase its efficiency by
detecting and correcting problems before they cause a breakdown of the equipment, or failure of
the infrastructure.

Rainfall Dependent Infiltration and Inflow – Infiltration and inflow that is attributed directly to
rainfall.

Regional Water Board – Is a short name for any of the nine regional boards including the Central
Valley Regional Water Quality Control Board.

Rehabilitation and Replacement Plan (also referred to as a Capital Improvement Plan) –
Identifies and prioritizes system deficiencies and implements short-term and long-term
rehabilitation actions to address each deficiency.

Sanitary Sewer Overflow (SSO) – The Statewide GWDR defines an SSO as any overflow, spill,
release, discharge or diversion of untreated or partially treated wastewater from a sanitary sewer
system, including overflows or releases that reach waters of the United States, overflows or
releases that do not reach water of the United States, and backups into buildings and/or private
property caused by conditions within the publicly owned portion of the sewer system.

Sanitary Sewer Overflow Categories

- **Category 1** – All discharges of sewage resulting from a failure in the Enrollee’s sanitary
  sewer system that equals or exceeds 1000 gallons; or result in a discharge to a drainage
  channel and/or surface water; or discharge to a storm drainpipe that was not fully captured
  and returned to the sanitary sewer system.

- **Category 2** – All other discharges of sewage resulting from a failure in the Enrollee’s
  sanitary sewer system

- Private Lateral Sewage Discharges – Sewage discharges that are caused by blockages or
  other problems within a privately owned lateral

Sanitary Sewer System – Any system of gravity sewer pipelines, pump stations, force mains, or
other facilities upstream of the headworks of a wastewater treatment plant. The sanitary sewer
system is used to collect and convey wastewater to the publicly owned treatment facility.
Temporary storage and conveyance facilities are considered to be part of the sanitary sewer
system and discharges into these temporary storage facilities are not to be considered SSOs.

Satellite Collection System – The portion, if any, of a sanitary sewer system owned or operated
by a different public agency than the agency that owns and operates the wastewater treatment
facility to which the sanitary sewer system is tributary.

Sewer System Management Plan (SSMP) – A series of written site specific programs that
address how a collection system owner/operator conducts their daily business as is outlined in
the WDR. Each SSMP is unique for an individual discharger. The plan includes provisions to
provide proper and efficient management, operation, and maintenance of sanitary sewer systems,
while taking into consideration risk management and cost benefit analysis. The plan must also
contain a spill response plan. Certification is offered by technically qualified and experienced
persons and provides a useful cost effective means for ensuring that SSMPs are developed and implemented appropriately.

Stakeholder - A person or organization that has a vested interest in the development and outcome of the SWRCB Order No. 2006-0003 Statewide General Waste Discharge Requirements for Sanitary Sewer Systems.

State Water Resources Control Board: Also called the State Board. This is the State agency that developed and passed the GWDR for collection systems and the agency that maintains the SSO reporting web site.

Stoppage – See “Blockage”.

System Evaluation and Capacity Assurance Plan – A required component of an agency’s SSMP and is an important part of any agency’s overall Capital Improvement Plan that provides hydraulic capacity of key sanitary sewer system elements for dry weather peak flow conditions, as well as the appropriate design storm or wet weather event.

Wastewater Collection System: See “Sanitary Sewer System”.
ACRONYMS

AB Assembly Bill
BAT Best Available Technology
BMP Best Management Practice
CASA California Association of Sanitation Agencies
CCTV Closed-Circuit Television
CFR Code of Federal Regulations
CIP Capital Improvement Plan or Program and/or Project
CM Corrective Maintenance
CMMS Computerized Maintenance Management System
CWEA California Water Environment Association
CVCWA Central Valley Clean Water Association
District San Bernardino Community College District
EPA Environmental Protection Agency
FOG Fats, Oils, and Grease
FSE Food Service Establishments
GIS Geographical Information System
GPS Global Positioning System
GWI Groundwater Induced Infiltration
GWDR General Waste Discharge Requirements also referred to as Waste Discharge Requirements (WDR)
I/I Inflow / Infiltration
IWD Industrial Waste Division
LRO Legally Responsible Official
MGD million gallons per day
MRP Monitoring and Reporting Program
MSC Municipal Service Center
MSDS Material Safety Data Sheets
NPDES National Pollution Discharge Elimination System
O&M Operation and Maintenance
OERP Overflow Emergency Response Plan
<table>
<thead>
<tr>
<th>Acronyms</th>
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<tr>
<td>OES</td>
<td>Office of Emergency Services</td>
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<td>Regional Water Quality Control Board</td>
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<tr>
<td>SBCSA 70</td>
<td>County of San Bernardino, County Service Area 70</td>
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<tr>
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<td>Standard Operating Procedure</td>
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<td>Sewer System Management Plan</td>
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<td>Sanitary Sewer Overflow</td>
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<td>State Water Resources Control Board</td>
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<td>Underground Service Alert</td>
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<td>WDP</td>
<td>Waste Discharge Permit</td>
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<td>WDR</td>
<td>Waste Discharge Requirements also referred to as General Waste Discharge Requirements (GWDR)</td>
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<td>WW</td>
<td>Wastewater</td>
</tr>
<tr>
<td>WWCS</td>
<td>Wastewater Collection System</td>
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<tr>
<td>WWTP</td>
<td>Wastewater Treatment Plant</td>
</tr>
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</table>
SPECIFICATIONS FOR SEWER MAINTENANCE  
(SWRCB 2006-0003-DWQ)

PART 1 - GENERAL

1.1 DESCRIPTION

A. Supply provisions to provide proper and efficient management, operation, and maintenance of sanitary sewer systems to prevent sanitary sewer overflows (SSOs). Contractor is responsible for verifying actual site conditions. Contractor shall provide all labor, materials, services, insurance, and equipment which is specified, shown, or reasonably implied for the requirements outlined in SWRCB Order No. 2006-0003-DWQ.

1.2 PROCEDURES

A. In additional to requirements specified in SWRCB Order No. 2006-0003-DWQ, Contractor shall comply, without limitation, with the following:

1. Title 33 United States Code Section 1251 Federal Clean Water Act
2. Title 23 California Code of Regulations California Water Code
3. National Pollutant Discharge Elimination System (NPDES)

PART 2 - REQUIREMENTS

2.1 PREVENTATIVE MAINTENANCE

A. Ensure proper management, operation and maintenance.

B. Ensure there are adequate treatment facilities, sanitary sewer system facilities, and/or components with an appropriate design capacity, to reasonably prevent SSOs.

C. Develop a preventative maintenance program (including cleaning and fats, oils, and grease (FOG) control).

D. Install adequate backup equipment.

E. Ensure inflow and infiltration (I/I) prevention and control to the extent practicable.

F. Provide adequate capacity to convey base flows and peak flows, including flows related to wet weather events.

G. Sanitary sewer capacity shall meet or exceed the design criteria as defined in the San Bernardino Valley College and Crafton Hills College’s (SBVC/CHC’s) System Evaluation and Capacity Assurance Plan (see Section 2.6) for all parts of the sanitary sewer system owned or operated by SBVC/CHC.
2.2 OPERATIONS AND MAINTENANCE PROGRAM
   A. Prepare and maintain an up-to-date map of the sanitary sewer system, showing all gravity line segments and manholes, pumping facilities, pressure pipes and valves, and applicable storm water conveyance facilities.
   B. Describe routine preventive operation and maintenance activities by staff and contractors, including a system for scheduling regular maintenance and cleaning of the sanitary sewer system with more frequent cleaning and maintenance targeted at known problem areas.
   C. The Preventative Maintenance (PM) program should have a system to document scheduled and conducted activities, such as work orders.
   D. Develop a rehabilitation and replacement plan to identify and prioritize system deficiencies and implement short-term and long-term rehabilitation actions to address each deficiency:
      1. The program should include regular visual and inline closed-circuit camera inspections of manholes and sewer pipes, and a system for ranking the condition of sewer pipes and scheduling rehabilitation.
      2. Rehabilitation and replacement should focus on sewer pipes that are at risk of collapse or prone to more frequent blockages due to pipe defects.
      3. The rehabilitation and replacement plan should include a capital improvement plan that addresses proper management and protection of the infrastructure assets.
      4. The plan shall include a time schedule for implementing the short- and long-term plans plus a schedule for developing the funds needed for the capital improvement plan.
   E. Provide training on a regular basis for staff in sanitary sewer system operations and maintenance, and require contractors to be appropriately trained.
   F. Provide equipment and replacement part inventories, including identification of critical replacement parts.

2.3 DESIGN AND PERFORMANCE PROVISIONS
   A. Develop design and construction standards and specifications for the installation of new sanitary sewer systems, pump stations and other appurtenances; and for the rehabilitation and repair of existing sanitary sewer systems.
   B. Develop procedures and standards for inspecting and testing the installation of new sewers, pumps, and other appurtenances and for rehabilitation and repair projects.

2.4 OVERFLOW EMERGENCY RESPONSE PLAN
   A. Ensure proper notification procedures are in place so that the first responders and regulatory agencies are informed of all SSO’s in a timely manner.
   B. Develop a program to ensure an appropriate response to all overflows.
   C. Develop procedures to ensure prompt notification to appropriate agencies and other potentially
affected entities of all SSO’s that potentially affect public health or reach waters of the State in accordance with the Monitoring and Reporting Program (MRP).

D. All SSO’s shall be reported in accordance with the MRP, the California Water Code, other State law, and other applicable RWQCB WDR’s, or National Pollution Discharge and Elimination System (NPDES) permit requirements.

E. Develop procedures to ensure that appropriate staff and contractor personnel are aware of and follow the Emergency Response Plan and are appropriately trained.

F. Develop procedures to address emergency operations, such as traffic and crowd control and other necessary response activities.

G. Develop a program to ensure that all reasonable steps are taken to contain and prevent the discharge of untreated and partially treated wastewater to waters of the United States and to minimize or correct any adverse impact on the environment resulting from the SSO’s including such accelerated or additional monitoring as may be necessary to determine the nature and impact of the discharge.

2.5 FATS, OILS, AND GREASE (FOG) CONTROL PROGRAM

A. The service areas shall be evaluated to determine whether or not a FOG control program is needed. If it is determined that a FOG control program is not needed, justification should be provided. If FOG is found to be a problem, a FOG source control program must be prepared and implemented to reduce the amount of these substances discharged to the sanitary sewer system.

This plan shall include the following as appropriate:

1. An implementation plan and schedule for a public education outreach program that promotes proper disposal of FOG.

2. A plan and schedule for the disposal of FOG generated within the sanitary sewer system service area. This may include a list of acceptable disposal facilities and/or additional facilities needed to adequately dispose of FOG generated within a sanitary sewer system service area.

3. The legal authority to prohibit discharges to the system and identify measures to prevent SSOs and blockages caused by FOG.

4. Requirements to install grease removal devices (such as traps or interceptors), design standards for the removal devices, maintenance requirements, best management practice (BMP) requirements, record keeping and reporting requirements.

5. Authority to inspect grease producing facilities, enforcement authorities, and whether SBVC/CHC has sufficient staff to inspect and enforce the FOG ordinance.

6. An identification of sanitary sewer system sections subject to FOG blockages and establishment of a cleaning maintenance schedule for each section.

7. Development and implementation of source control measures for all sources of FOG discharged to the sanitary sewer system for each section identified in (6) above.
2.6 SYSTEM EVALUATION AND CAPACITY ASSURANCE PLAN

A. Prepare and implement a capital improvement plan (CIP) that will provide hydraulic capacity of key sanitary sewer system elements for dry weather peak flow conditions, as well as the appropriate design storm or wet weather event. At a minimum, the plan must include:

1. **Evaluation**: Actions needed to evaluate those portions of the sanitary sewer system that are experiencing or contributing to an SSO discharge caused by hydraulic deficiency. The evaluation must provide estimates of peak flows (including flows from SSOs that escape from the system) associated with conditions similar to those causing overflow events, estimates of the capacity of key system components, hydraulic deficiencies (including components of the system with limiting capacity) and the major sources that contribute to the peak flows associated with overflow events.

2. **Design Criteria**: Where design criteria do not exist or are deficient, undertake the evaluation identified in (A) above to establish appropriate design criteria.

3. **Capacity Enhancement Measures**: The steps needed to establish a short- and long-term CIP to address identified hydraulic deficiencies, including prioritization, alternatives analysis, and schedules. The CIP may include increases in pipe size, I/I reduction programs, increases and redundancy in pumping capacity, and storage facilities. The CIP shall include an implementation schedule and shall identify sources of funding.

4. **Schedule**: A schedule of completion dates shall be developed for all portions of the CIP developed in the above (1) to (3). This schedule shall be reviewed and updated consistent with the Sewer System Management Plan (SSMP).

2.7 MONITORING, MEASUREMENT, AND PROGRAM MODIFICATIONS

A. Maintain relevant information that can be used to establish and prioritize appropriate Sewer System Management Plan\(^1\) (SSMP) activities.

B. Monitor the implementation and, where appropriate, measure the effectiveness of each element of the SSMP.

C. Assess the success of the preventative maintenance program.

D. Update program elements, as appropriate, based on monitoring or performance evaluations.

E. Identify and illustrate SSO trends, including: frequency, location, and volume.

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\(^1\) Sewer System Management Plan, San Bernardino Community College District, February, 2010
2.8 SEWER SYSTEM MANAGEMENT PLAN (SSMP) PROGRAM AUDITS AND COMMUNICATION PROGRAM

A. SSMP Program Audits

1. As part of the SSMP, periodic internal audits, appropriate to the size of the system and the number of SSOs shall be conducted. At a minimum, these audits must occur every two years and a report must be prepared and kept on file. This audit shall focus on evaluating the effectiveness of the SSMP and the SBVC/CHC’s compliance with the SSMP requirements, including identification of any deficiencies in the SSMP and steps to correct them.

B. Communication Program

1. SBVC/CHC shall communicate on a regular basis with the public on the development, implementation, and performance of its SSMP. The communication system shall provide the public the opportunity to provide input as the program is developed and implemented.

2. Create a plan of communication with systems that are tributary and/or satellite to SBVC/CHC’s sanitary sewer system.

END OF SECTION
APPENDIX 2

Organizational Documents

- Authorized Representatives
- Personnel Responsible for SSMP Elements
- Contact List - Personnel Responsible for SSO Reporting
Legally Responsible Officials (LROs) and Personnel Responsible for SSO Reporting

Name and telephone number of San Bernardino Community College District’s (SBCCD) Legally Responsible Officials are listed below. These members of the District’s staff are responsible for reporting SSOs to the SWQCB, RWQCB and other applicable agencies listed below. (All numbers use area code 909 unless otherwise noted)

<table>
<thead>
<tr>
<th>Position &amp; Name</th>
<th>Telephone Number</th>
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</thead>
<tbody>
<tr>
<td>Director, Facilities Planning &amp; Construction, District</td>
<td>Hussain Agah</td>
</tr>
<tr>
<td></td>
<td>(909) 382-4094</td>
</tr>
<tr>
<td>Director, Facilities, Operations and Maintenance, San Bernardino Valley College</td>
<td>Robert (Bob) Jenkins</td>
</tr>
<tr>
<td></td>
<td>(909) 384-8662</td>
</tr>
<tr>
<td>Director, Facilities, Operations and Maintenance, Crafton Hills College</td>
<td>Larry Cook</td>
</tr>
<tr>
<td></td>
<td>(909) 389-3383</td>
</tr>
<tr>
<td>Vice President, Office of Administrative Services, San Bernardino Valley College</td>
<td>Scott Stark</td>
</tr>
<tr>
<td></td>
<td>(909) 384-8958</td>
</tr>
<tr>
<td>Vice President, Office of Administrative Services, Crafton Hills College</td>
<td>Michael Strong</td>
</tr>
<tr>
<td></td>
<td>(909) 389-3210</td>
</tr>
<tr>
<td>Director, Safety &amp; Risk Management, District</td>
<td>Whitney J. Fields</td>
</tr>
<tr>
<td></td>
<td>(909) 382-4070</td>
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</tbody>
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Reporting

The above individual(s) are responsible for reporting SSOs and notifying the following:

<table>
<thead>
<tr>
<th>Telephone Number</th>
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</thead>
<tbody>
<tr>
<td>1-800-852-7550</td>
</tr>
<tr>
<td>1-951-782-4130</td>
</tr>
<tr>
<td>1-909-387-4666</td>
</tr>
</tbody>
</table>

Contact List – People, Agencies and Firms Responsible for Implementing Specific Measures of the SSMP

Board of Trustees

The current members of the Board of Trustees are listed below:

John Longville
Joseph Williams
Gloria Macias
Harrison
Donna Ferracone
Dr. Donald Singer
Dr. Anne L. Viricel
Nickolas Zoumbos
Pablo Machado, SBVC Student Trustee
Beverly Rapouw, CHC Student Trustee

The members of the Board of Trustees can be reached through the District Administrative offices phone line at (909) 382-4000.
Chancellor

The Chancellor - Bruce Baron. The Chancellor can be reached through the District Administrative offices phone line at (909) 382-4000.

Vice Chancellor, Fiscal Services

The Vice Chancellor, Fiscal Services - Jose Torres. (909) 382-4021.

Director, Facilities Planning & Construction, District

Hussain Agah (909) 382-4094

President, San Bernardino Valley College and Crafton Hills College

The President of the San Bernardino Valley College - Diana Rodriquez.
The President of the Crafton Hills College - Dr. Wei Zhou.
Both Presidents can be reached through the District Administrative offices at (909) 382-4000.

Vice President, Office of Administrative Services

San Bernardino Valley College
Scott Stark
Phone
(909) 384-8958

Crafton Hills College
Michael Strong
Phone
(909) 389-3210

Director, Facilities, Operations and Maintenance

San Bernardino Valley College
Robert (Bob) Jenkins
Phone
(909) 384-8662.

Crafton Hills College
Larry Cook
Phone
(909) 389-3383

Supervisor, Maintenance & Grounds

San Bernardino Valley College
Christopher (Chris) Hylton
Phone
(909) 384-1608

Crafton Hills College
Not Applicable

Sewer Contractors

The District plans to use National Plant Services for long term maintenance, including annual sewer line cleaning and CCTV inspection services as necessary.

Emergency Management Technologies (EMT) will provide emergency spill/clean-up response.
Sewer Contractors

Emergency Management Technologies (EMT) will provide emergency spill/clean-up response.

Environmental Management Technologies, inc.

Address: 1456 S. Gage Street, San Bernardino, CA 92408
phone: 800-579-6834

Point of Contact

Jeremy Brown
ENVIRONMENTAL MANAGEMENT TECHNOLOGIES, INC.
800-579-6834-O
951-323-4773-M
562-624-4567-F
jbrown@emt4env.com

Services

ENVIRONMENTAL MANAGEMENT TECHNOLOGIES (EMT) offers top rated customer service in all fields of RCRA Hazardous waste, Non-RCRA, and Non-Hazardous waste removal.

EMT showcases a full line of equipment, professional and experienced drivers that are courteous and well trained. Supported by our office staff that is ready to tackle any scope of work presented to us, we are your source for a cost efficient solution to your environmental needs. Please contact one of our representatives so we can provide you with a competitive bid and service worthy of earning your business for years to come.

Vacuum Tanker Pumping

We at EMT are confident that any services you may require in regards to vacuum tanker needs can be managed quickly by using our 120 or 130 bbl Vacuum Tanker. These fully equipped tankers are available 24 hours a day 365 days a year for your convenience. Offering this type of equipment to our clients gives them the peace of mind that all of their generated liquid, sludge waste can be removed in a timely manner for your company to run more productively.

Confined Space

Confined Space entry is essential for many businesses. EMT is able to have technicians on site with proper certifications, training and compliance knowledge. Allowing our personnel to access and maintain the cleaning of tanks, clarifiers, underground servicing and many other aspects of confined space work will be the defining factor in your companies productivity and compliance objectives. This service is available 24 hours a day 365 days a year. EMT will show up ready to go with the correct equipment on site to perform this scope of work.
24 Hour Emergency

EMT specialists are highly trained and available to assess any situation and prepare for immediate evacuation of personnel. We specialize in helping with the dangers of contamination under any circumstance, at which our clean-up team can get to work taking care of the containment and handling of spilled toxins, acids, oil, gas and any other waste material spills. Wherever the emergency may occur, we are quick to respond to your workplace, job site, or even during a transport. We are available 24 hours, 365 days per year. Contact us for more information about our services.

Transportation Services

EMT proudly offers a number of different trucks for your convenience and complete efficiency of job site remediation and bulk solid load removal. Able to handle effectively the generated waste your company may require this service for. We have the ability to run these trucks 24 hours a day 365 days a year to accommodate all industries at a very competitive cost. Allowing you to call EMT for all of your waste disposal needs.
National Plant Services, Inc. (NTS) will provide CCTV inspection and annual sewer line cleaning.

**National Plant Services, Inc.**  
Address: 1461 Harbor Avenue, Long Beach, CA 90813  
Phone: 562-436-7600  
Services to be preformed: Cleaning and Inspection

Experience:  
National Plant Services, Inc. was incorporated in 1981. It is a wholly owned affiliate of the Carylon Corporation, Chicago, Ill. Founded in 1949, the Carylon Corporation is the nation's oldest, largest, privately-held sewer maintenance contractor. The Carylon Corporation has over 15 “sister” companies located across the United States. No other sewer and storm drain maintenance and study/investigating contractor can match the resources and experience and equipment that can be provided by the Carylon companies.

Their facility is a full-service operation - housing Administration, Accounting, Operations and Maintenance. All men and equipment required to perform this work will be dispatched and managed from this location. Representatives of the City of West Hollywood are invited to visit their headquarters in Long Beach to inspect their facility and their fleet at any time.

National Plant Services, Inc. operates as a full-service sewer and storm drain cleaning, inspections and maintenance contractor. National Plant Services, Inc. has been providing these services to cities (including Long Beach), counties, sanitation districts, developers, contractors and industries in 11 Western States since 1981. National Plant Services, Inc. operates 24 hours per day, 7 days per week, providing emergency vacuum, jetting and other cleaning and inspection services. National Plant Services owns all the equipment and has all the personnel necessary to meet all specifications and requirements and to perform this work to the complete satisfaction of the City of Berkeley.

National Plant Services, Inc. is a financially strong, healthy company. The Company is fully capable financially of undertaking this project.
Dennis R. Keene – President

National Plant Services, Inc., Long Beach, CA

Mr. Keene has been employed by the Carylon Corporation since 1972. He has been President of National Plant Services, Inc., a multiple location company, since 1987.

He is responsible for coordinating Carylon Corporation efforts in the 11 Western States and is responsible for the direction and supervision of daily operations of National Plant Services’ three locations in California (Long Beach, San Diego and San Leandro).

Mr. Keene has been involved with all aspects of the business. Mr. Keene has hands-on experience with every piece of equipment operated by National Plant Services, Inc.

Mr. Keene has surveyed, bid and managed sewer cleaning and inspections projects for over 33 years in several Western States. He has worked closely with cities and sanitary districts throughout California in planning and performing sewer cleaning, closed circuit television inspection and pipe rehabilitation projects. He has a firm understanding of what agencies expects from a specialty contractor and has the field experience to deal with the problems that can be encountered during the course of the performance of a project.

Mr. Keene has been responsible for bidding and managing all work that National Plant Services has performed for the past 34 years. If awarded this Project, Mr. Keene will be the primary of Point of Contact and will be the Project Manager for televising portion of the project.

Duke Brown - Operations Manager & Safety Director

National Plant Services, Inc., Long Beach, CA

Mr. Brown has worked for the Carylon Corporation since 1970. He has hands-on experience and can operate every piece of equipment owned by National Plant Services. Mr. Brown has been a Project Manager and Project Superintendent on hundreds of sewer cleaning and inspections projects in California, Arizona, New Mexico, Utah and several other Western States. Mr. Brown has cleaned and inspected more sewer lines than any other active sewer cleaning professional in Southern California. He is thoroughly knowledgeable and completely professional with every piece of equipment operating in the industry today.

In addition to over 39 years of hands-on experience, Mr. Brown has received professional training in Confined Space Entry and holds 40 Hour Hazwoper Training credentials.

Mr. Brown is part of National Plant Services' Safety Team. Mr. Brown has attended the 10 Hour OSHA Construction Safety Training course. Mr. Brown has been the Project. Mr. Brown is extremely safety conscious and thoroughly trained in hazard and accident prevention in the field of sewer cleaning.
Figure 2-2
San Bernardino Community College District (SBCCD)
SSMP Responsibility Organization Chart

Public

Nights & Weekends
SB Valley College

San Bernardino
Police Department

Nights & Weekends
Crafton Hills College

District Police &
Communication Center

San Bernardino
Co. Sheriff Department

Directors, Facilities
Operations & Maintenance

Assess Problem &
Reporting Needs

Spill?

Yes

Call Sewer Contractor

Contain Spill
Fix Problem
Clean-up

Assess Spill &
Document Clean-up

Report Spill

RWQCB  Q.E.S.

No

Sewer Blockage

No

Dispatch Sewer Contractor

Fix Problem

Call Sewer Contractor

Fix Problem

Document Response

County Health
Department

SWRCB Web Site
Parking Permits (Daily)

Parking permits/decals are required to park in all parking lots and on all college streets. Daily parking permits available in all lots. Parking in disabled stalls requires a valid California disabled placard and a valid SBCCD parking permit/decal.

Smoking Areas

This is a smoke-free campus. Smoking in non-designated areas or buildings may result in the issuance of a citation (Board Policy #3570; Government Code #7597)

District Police (909) 389-3275

Updated: 1-23-15

Map not to scale

Parking permits/decals are required to park in all parking lots and on all college streets. Daily parking permits available in all lots. Parking in disabled stalls requires a valid California disabled placard and a valid SBCCD parking permit/decal.

Smoking Areas

This is a smoke-free campus. Smoking in non-designated areas or buildings may result in the issuance of a citation (Board Policy #3570; Government Code #7597)

District Police (909) 389-3275
San Bernardino Valley College
701 South Mount Vernon • San Bernardino, CA 92410 • (909) 384-4400

AD/SS ........ Administration/Student Services
(Note: AD rooms are located in AD/SS)
ART ................................................Art Center
AUD ............................................. Auditorium
B ..................................................... Business
BOOK ........................................... Bookstore
CC ........................................Campus Center
CDC .....................Child Development Center
CTS ..............Computer Technology Services
HLS ..............................Health & Life Science
LA ................................................Liberal Arts
LIB ......................................................Library
MC ...........................Media/Communications
MCHS ............... Middle College High School
M&O ................... Maintenance & Operations
O ...........................................Observatory
PL ........................................... Planetarium
PS .....................................Physical Sciences
SG .............................................Snyder Gym
SHS ........................ Student Health Services
T .....................................................Technical
TRAN .......................... Transportation Center
WG .........................................Women’s Gym

DISTRICT POLICE
Campus Center Rm. 100
(909) 384-4491

Parking permits/decals are required to park in all parking lots and on all college streets.

Parking in disabled stalls requires a valid California disabled placard and a valid SBCCD parking permit/decal.

INDICATES PARKING PERMIT DISPENSER

FREE PARKING
Pro Swap Meet

Check our website: www.valleycollege.edu for map updates.

INDICATES CONSTRUCTION AREAS

ARROWS DESIGNATE STUDENT PARKING LOT ENTRANCES

CROSSWALK

INDICATES APPROVED SMOKING AREAS (10)

This is a smoke-free campus - smoking in non-designated areas or buildings may result in the issuance of a citation (Board Policy #3570; Government Code #7597)
APPENDIX 4

STATEWIDE GENERAL WASTE DISCHARGE REQUIREMENTS FOR SANITARY SEWER SYSTEM
STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

ORDER NO. WQ 2008-0002-EXEC

ADOPTING AMENDED MONITORING AND REPORTING REQUIREMENTS FOR STATEWIDE GENERAL WASTE DISCHARGE REQUIREMENTS FOR SANITARY SEWER SYSTEMS

The State of California, Water Resources Control Board (State Water Board) finds:

1. The State Water Board is authorized to prescribe statewide general waste discharge requirements for categories of discharges that involve the same or similar operations and the same of similar types of waste pursuant to Water Code 13263, subdivision (i).


4. State Water Board Order No. 2006-0003-DWQ, paragraph G.2., and the Monitoring and Reporting Requirements, both provide that the Executive Director may modify the terms of the Monitoring and Reporting Requirements at any time.

5. The time allowed in those Monitoring and Reporting Requirements for the filing of the initial report of an overflow is too long to adequately protect the public health and safety or the beneficial uses of the waters of the state when there is a sewage collection system spill. An additional notification requirement is necessary and appropriate to ensure the Office of Emergency Services, local public health officials, and the applicable regional water quality control board are apprised of a spill that reaches a drainage channel or surface water.

6. Further, the burden of providing a notification as soon as possible is de minimis and will allow response agencies to take action as soon as possible to protect public health and safety and beneficial uses of the waters of the state.

IT IS HEREBY ORDERED THAT:

Pursuant to the authority delegated by Resolution No. 2002-0104 and Order No. 2006-0003-DWQ, the Monitoring and Reporting Requirements for Statewide General Waste Discharge Requirements for Sanitary Sewer Systems No. 2006-0003-DWQ is hereby amended as shown in Attachment A, with new text indicated by double-underline.

Dated: February 20, 2008

Dorothy Rice
Executive Director
ATTACHMENT A

STATE WATER RESOURCES CONTROL BOARD
MONITORING AND REPORTING PROGRAM NO. 2006-0003-DWQ
(AS REVISED BY ORDER NO. WQ 2008-0002-EXEC)

STATEWIDE GENERAL WASTE DISCHARGE REQUIREMENTS
FOR
SANITARY SEWER SYSTEMS

This Monitoring and Reporting Program (MRP) establishes monitoring, record keeping, reporting and public notification requirements for Order No. 2006-2003-DWQ, “Statewide General Waste Discharge Requirements for Sanitary Sewer Systems.” Revisions to this MRP may be made at any time by the Executive Director, and may include a reduction or increase in the monitoring and reporting.

NOTIFICATION
Although State and Regional Water Board staff do not have duties as first responders, this Monitoring and Reporting Program is an appropriate mechanism to ensure that the agencies that do have first responder duties are notified in a timely manner in order to protect public health and beneficial uses.

1. For any discharges of sewage that results in a discharge to a drainage channel or a surface water, the Discharger shall, as soon as possible, but not later then two (2) hours after becoming aware of the discharge, notify the State Office of Emergency Services, the local health officer or directors of environmental health with jurisdiction over affected water bodies, and the appropriate Regional Water Quality Control Board.

2. As soon as possible, but no later then twenty-four (24) hours after becoming aware of a discharge to a drainage channel or a surface water, the Discharger shall submit to the appropriate Regional Water Quality Control Board a certification that the State Office of Emergency Services and the local health officer or directors of environmental health with jurisdiction over the affected water bodies have been notified of the discharge.

A. SANITARY SEWER OVERFLOW REPORTING

SSO Categories

1. Category 1 - All discharges of sewage resulting from a failure in the Enrollee’s sanitary sewer system that:
   A. Equal or exceed 1000 gallons, or
   B. Result in a discharge to a drainage channel and/or surface water; or
   C. Discharge to a storm drainpipe that was not fully captured and returned to the sanitary sewer system.
2. Category 2 – All other discharges of sewage resulting from a failure in the Enrollee’s sanitary sewer system.

3. Private Lateral Sewage Discharges – Sewage discharges that are caused by blockages or other problems within a privately owned lateral.

**SSO Reporting Timeframes**

4. Category 1 SSOs – *Except as provided above, all SSOs that meet the above criteria for Category 1 SSOs must be reported as soon as: (1) the Enrollee has knowledge of the discharge, (2) reporting is possible, and (3) reporting can be provided without substantially impeding cleanup or other emergency measures. Initial reporting of Category 1 SSOs must be reported to the Online SSO System as soon as possible but no later than 3 business days after the Enrollee is made aware of the SSO. Minimum information that must be contained in the 3-day report must include all information identified in section 9 below, except for item 9.K. A final certified report must be completed through the Online SSO System, within 15 calendar days of the conclusion of SSO response and remediation. Additional information may be added to the certified report, in the form of an attachment, at any time.*

The above reporting requirements are in addition to do not preclude other emergency notification requirements and timeframes mandated by other regulatory agencies (local County Health Officers, local Director of Environmental Health, Regional Water Boards, or Office of Emergency Services (OES)) or State law.

5. Category 2 SSOs – All SSOs that meet the above criteria for Category 2 SSOs must be reported to the Online SSO Database within 30 days after the end of the calendar month in which the SSO occurs (e.g. all SSOs occurring in the month of January must be entered into the database by March 1st).

6. Private Lateral Sewage Discharges – All sewage discharges that meet the above criteria for Private Lateral sewage discharges may be reported to the Online SSO Database based upon the Enrollee’s discretion. If a Private Lateral sewage discharge is recorded in the SSO Database, the Enrollee must identify the sewage discharge as occurring and caused by a private lateral, and a responsible party (other than the Enrollee) should be identified, if known.

7. If there are no SSOs during the calendar month, the Enrollee will provide, within 30 days after the end of each calendar month, a statement through the Online SSO Database certifying that there were no SSOs for the designated month.

8. In the event that the SSO Online Database is not available, the enrollee must fax all required information to the appropriate Regional Water Board office in
accordance with the time schedules identified above. In such event, the Enrollee must also enter all required information into the Online SSO Database as soon as practical.

**Mandatory Information to be Included in SSO Online Reporting**

All Enrollees must obtain SSO Database accounts and receive a “Username” and “Password” by registering through the California Integrated Water Quality System (CIWQS). These accounts will allow controlled and secure entry into the SSO Database. Additionally, within thirty (30) days of receiving an account and prior to recording SSOs into the SSO Database, all Enrollees must complete the “Collection System Questionnaire”, which collects pertinent information regarding an Enrollee’s collection system. The “Collection System Questionnaire” must be updated at least every 12 months.

At a minimum, the following mandatory information must be included prior to finalizing and certifying an SSO report for each category of SSO:

9. Category 2 SSOs:

   A. Location of SSO by entering GPS coordinates;
   B. Applicable Regional Water Board, i.e. identify the region in which the SSO occurred;
   C. County where SSO occurred;
   D. Whether or not the SSO entered a drainage channel and/or surface water;
   E. Whether or not the SSO was discharged to a storm drain pipe that was not fully captured and returned to the sanitary sewer system;
   F. Estimated SSO volume in gallons;
   G. SSO source (manhole, cleanout, etc.);
   H. SSO cause (mainline blockage, roots, etc.);
   I. Time of SSO notification or discovery;
   J. Estimated operator arrival time;
   K. SSO destination;
   L. Estimated SSO end time; and
   M. SSO Certification. Upon SSO Certification, the SSO Database will issue a Final SSO Identification (ID) Number.

10. Private Lateral Sewage Discharges:

   A. All information listed above (if applicable and known), as well as;
   B. Identification of sewage discharge as a private lateral sewage discharge; and
   C. Responsible party contact information (if known).
11. Category 1 SSOs:

A. All information listed for Category 2 SSOs, as well as;
B. Estimated SSO volume that reached surface water, drainage channel, or not recovered from a storm drain;
C. Estimated SSO amount recovered;
D. Response and corrective action taken;
E. If samples were taken, identify which regulatory agencies received sample results (if applicable). If no samples were taken, NA must be selected.
F. Parameters that samples were analyzed for (if applicable);
G. Identification of whether or not health warnings were posted;
H. Beaches impacted (if applicable). If no beach was impacted, NA must be selected;
I. Whether or not there is an ongoing investigation;
J. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the overflow and a schedule of major milestones for those steps;
K. OES control number (if applicable);
L. Date OES was called (if applicable);
M. Time OES was called (if applicable);
N. Identification of whether or not County Health Officers were called;
O. Date County Health Officer was called (if applicable); and
P. Time County Health Officer was called (if applicable).

Reporting to Other Regulatory Agencies

These reporting requirements do not preclude an Enrollee from reporting SSOs to other regulatory agencies pursuant California state law. These reporting requirements do not replace other Regional Water Board telephone reporting requirements for SSOs.

1. The Enrollee shall report SSOs to OES, in accordance with California Water Code Section 13271.

Office of Emergency Services
Phone (800) 852-7550

2. The Enrollee shall report SSOs to County Health officials in accordance with California Health and Safety Code Section 5410 et seq.

3. The SSO database will automatically generate an e-mail notification with customized information about the SSO upon initial reporting of the SSO and final certification for all Category 1 SSOs. E-mails will be sent to the appropriate County Health Officer and/or Environmental Health Department if the county desires this information, and the appropriate Regional Water Board.
B. Record Keeping

1. Individual SSO records shall be maintained by the Enrollee for a minimum of five years from the date of the SSO. This period may be extended when requested by a Regional Water Board Executive Officer.

2. [Omitted.]

3. All records shall be made available for review upon State or Regional Water Board staff’s request.

4. All monitoring instruments and devices that are used by the Enrollee to fulfill the prescribed monitoring and reporting program shall be properly maintained and calibrated as necessary to ensure their continued accuracy;

5. The Enrollee shall retain records of all SSOs, such as, but not limited to and when applicable:
   a. Record of Certified report, as submitted to the online SSO database;
   b. All original recordings for continuous monitoring instrumentation;
   c. Service call records and complaint logs of calls received by the Enrollee;
   d. SSO calls;
   e. SSO records;
   f. Steps that have been and will be taken to prevent the SSO from recurring and a schedule to implement those steps.
   g. Work orders, work completed, and any other maintenance records from the previous 5 years which are associated with responses and investigations of system problems related to SSOs;
   h. A list and description of complaints from customers or others from the previous 5 years; and
   i. Documentation of performance and implementation measures for the previous 5 years.

6. If water quality samples are required by an environmental or health regulatory agency or State law, or if voluntary monitoring is conducted by the Enrollee or its agent(s), as a result of any SSO, records of monitoring information shall include:
   a. The date, exact place, and time of sampling or measurements;
   b. The individual(s) who performed the sampling or measurements;
   c. The date(s) analyses were performed;
   d. The individual(s) who performed the analyses;
   e. The analytical technique or method used; and,
   f. The results of such analyses.
C. Certification

1. All final reports must be certified by an authorized person as required by Provision J of the Order.
2. Registration of authorized individuals, who may certify reports, will be in accordance with the CIWQS' protocols for reporting.

Monitoring and Reporting Program No. 2006-0003 will become effective on the date of adoption by the State Water Board. The notification requirements added by Order No. WQ 2006-0002-EXEC will become effective upon issuance by the Executive Director.

CERTIFICATION

The undersigned Clerk to the Board does hereby certify that the foregoing is a full, true, and correct copy of an order amended by the Executive Director of the State Water Board.

Jeanne Townsend
Clerk to the Board
APPENDIX 5

SSO EMERGENCY RESPONSE PROCEDURE
SSO EMERGENCY RESPONSE PROCEDURES
This section describes the actions the District will take in cooperation with the SWRCB to address discharges of sanitary sewer pollutants to surface water bodies from the wastewater collection system.

A. Receipt of Information Regarding a Sewer Overflow
An overflow may be detected by residents, District employees, or by others. District maintenance staff is responsible for receiving phone calls from the public of possible sewer overflows from the wastewater collection system, and for responding to the calls.

Telephone calls from the public reporting sanitary sewer overflows are received by the Community Development Department office staff during regular office hours and by an automated answering service during other hours. An emergency phone number is on file with the Police Department, and calls are forwarded to District maintenance staff. The emergency phone line is available 24-hour a day, 365 days a year.

1. The call receiver shall obtain all relevant information available regarding the overflow including:

   a. Time and date call was received;
   b. Specific location and description of facility;
   c. Description of problem;
   d. Time the overflow was noticed by the caller;
   e. Callers name and phone number;
   f. Observations by the caller (e.g. odor, duration, amount);
   g. Other relevant information that will enable the responding investigator and crews, if required, to quickly locate, assess and stop the overflow; and
   h. Any information that is requested on the “Sanitary Sewer Overflow Report Form” (attached) that may help in responding to the overflow.

2. The call receiver then records the overflow information on the information form (attached) and notifies the District maintenance personnel.

3. If spill is larger than 1,000 gallons, may imminently and substantially endanger human health or cause a fish kill, then the office of the California Emergency Management Agency (800) 825-7550 must be notified by the discharger within 2-hours of the becoming aware of the discharge, in accordance with California Code Section 13271.

4. For discharges of sewage that result in a discharge to a drainage channel or a surface water body the discharger shall within 2-hours notify Cal EMA, County Environmental Health with jurisdiction over the affected water bodies, and the RWQCB. No later than 24-hours after becoming aware of the discharge, the discharger must submit to the RWQCB a certification that Cal EMA and County Environmental Health with jurisdiction over the affected water bodies have been notified of the discharge.

5. Pump station failures are received by District office staff or the emergency
contact and immediately conveyed to District maintenance staff or a maintenance contractor to initiate the response.

6. Sewer overflows detected by any personnel in the course of their normal duties shall be reported immediately to maintenance staff. Maintenance personnel should record all relevant overflow information and dispatch a sewer investigator and additional response crews, as needed.

The Sanitary Sewer Overflow Report Form (attached) will be completed by District maintenance staff within 24-hours of the crew’s spill confirmation. The Street Supervisor is responsible for reviewing, updating, and signing the final Overflow Report.

B. Dispatch of Appropriate Crews to Site of Sewer Overflow

Failure of any element within the wastewater collection system that threatens to cause or causes a sewer overflow will trigger an immediate response to isolate and correct the problem. Crews and equipment shall be available to respond to any sewer overflow immediately. Also, additional resources are to be “on-call” should they be needed.

1. Dispatching Crews
   - District maintenance staff will receive notification of sewer overflows and dispatch the appropriate crews and resources as required.
   - District maintenance staff shall notify the District Engineer regarding sewer overflows and field crew locations.

2. Additional Resources
   - The Street Supervisor will receive and shall convey to appropriate parties requests for additional personnel, materials, supplies, and equipment from crews working at the site of a sewer overflow.

3. Preliminary Assessment of Damage to Public and Private Property
   - The response crews should use discretion in assisting the property owner/occupant as reasonably as they can. The response crew may enter private property for the purpose of assessing damage. Photographs or video, if possible, should be taken of the outdoor area of the sewer overflow and impacted area in order to thoroughly document the nature and extent of impacts and are to be included for filing with the overflow report.

4. Coordination with Hazardous Materials Response
   - Upon arrival at the scene of a sewer overflow, should a suspicious substance (e.g. oil sheen, foamy residue) be found in the area, or should a suspicious odor (e.g. gasoline) not common to the sewer system be detected, the response crew should immediately contact the County Hazardous Materials Response Team or the San Bernardino Fire Department to take over the scene. Remember that any vehicle engine, portable pump, or open flame (e.g. cigarette lighter) can provide the ignition for an explosion or fire if flammable fluids or vapors are present. Keep a safe distance, and apply caution until assistance arrives.
   - Upon arrival of the County Hazardous Materials Response Team or San Bernardino Fire Department, the District maintenance crew will take direction from the person with the lead authority from that team. Only when that authority determines that it is safe and
appropriate can the maintenance crew proceed, under the guidance of the SSOERP, with the containment, clean up, and correction.

C. Overflow Containment, Clean-up, and Correction

Spills of various volumes may result from blocked sewers, pipe failures, or mechanical malfunctions among other natural or man-made causes. The District is constantly on alert and should be ready to respond upon notification and confirmation of an overflow.

Specific actions are to be performed by crews during a sewer overflow. The objectives of these actions are:

- To protect the public health, environment, and property from sewage overflows and to restore the surrounding area back to normal as soon as possible;
- To establish perimeters and control zones with appropriate traffic cones, barricades, vehicles, or use of natural topography (e.g. hills or berms);
- To promptly notify the regulatory agency’s communication center of preliminary overflow information and potential impacts;
- To contain the sewer overflow to the maximum extent possible, including preventing the discharge from entering into surface waters; and
- To minimize the District exposure to any regulatory agency penalties and fines.

Under most circumstances the District will handle all initial response actions with its own maintenance staff. An important issue with respect to an emergency response is to ensure that the temporary actions necessary to divert flows and repair the problem do not produce a problem elsewhere in the system.

The District will use private contractors as needed to meet the response needs.

1. Responsibilities of Response Crew Upon Arrival

It is the responsibility of the first personnel who arrive at the site of a sewer overflow to protect the health and safety of the public by mitigating the impact of the overflow to the maximum extent possible. Upon arrival at a sewer overflow the response crew shall do the following:

- Determine the cause of the overflow (e.g. sewer line blockage, sewer line break, or pump station failure);
- Identify and request, if necessary, assistance or additional resources to correct the overflow or to assist in the determination of the cause;
- Take immediate steps to stop the overflow (e.g. relieve pipeline blockage, manually operate pump station controls, repair pipe). Extraordinary steps may be considered where overflows from private property threatens public health and safety (e.g. an overflow running off of private property into the public right-of-way); and
- Request additional personnel, materials, supplies, or equipment that will expedite and minimize the impact of the overflow.
2. Initial Measures for Containment

Maintenance staff will initiate measures to contain the overflowing sewage and recover, where possible, sewage that has already been discharged. These actions should always minimize impacts to the public health and the environment.

- Determine the immediate destination of the overflow (e.g. R/W, stormdrain, waters of the U.S.);
- Identify and request the necessary materials and equipment to contain or isolate the overflow if not readily available;
- Take immediate steps to contain the overflow (e.g. block or bag stormdrain inlets, recover through use of vacuum truck, divert to downstream manhole);

3. Additional Measures Under Potentially Prolonged Overflow Conditions

In the event of a prolonged sewer line blockage or a sewer line collapse a determination should be made to set up a portable by-pass pumping operation around the obstruction.

- Appropriate measures shall be taken to determine the proper size and number of pumps required to effectively handle the sewage overflow.
- Continuation or periodic monitoring of the by-pass pumping operation shall be implemented as required.
- Regulatory agency issues shall be addressed in conjunction with emergency repairs.

4. Cleanup

Sewer overflow sites are to be thoroughly cleaned after an overflow. No readily identified residue (e.g. sewage solids, papers, rags, plastics, rubber products) is to remain.

- The overflow site is to be secured to prevent contact by members of the public until the site has been thoroughly cleaned. Posting if required should be undertaken pursuant to Section IV.
- The area of discharge is to be cleaned of any sewage. Solids and debris are to be vacuumed, swept, raked, picked up, and transported for proper disposal.
- Where appropriate, the overflow site is to be disinfected and deodorized.
- Where sewage has resulted in ponding the pond should be vacuumed dry and the residue disposed of in accordance with applicable regulations and policies.
- If a ponded area contains sewage that cannot be vacuumed dry it may be treated with bleach and absorbent material and swept up.
- Use of portable aerators may be required where complete recovery of sewage is not practical and where severe oxygen depletion in
existing surface water is expected.

D. Customer Satisfaction
The Street Supervisor shall follow-up in person or by telephone with the citizen(s) reporting the overflow. The cause of the overflow and its resolution will be disclosed.

II. PUBLIC ADVISORY PROCEDURE
This section describes the actions The District should take in cooperation with the SWRCB to limit public access to areas potentially impacted by un-permitted discharges of pollutants to surface water bodies from the wastewater collection system.

A. Temporary Signage
The District has primary responsibility for determining when to post notices of polluted surface water bodies or ground waters that result from uncontrolled wastewater discharges from its facilities. The postings do not necessarily prohibit use of recreational areas unless posted otherwise, but provide warning of potential public health risks due to sewage contamination.
III. REPORTING/RECORD KEEPING

A. SSO Categories
1. Category 1 - All discharges of sewage resulting from a failure in the Enrollee’s sanitary sewer system that:
   A. Equal or exceed 1000 gallons, or
   B. Result in a discharge to a drainage channel and/or surface water; or
   C. Discharge to a storm drainpipe that was not fully captured and returned to the sanitary sewer system.
2. Category 2 – All other discharges of sewage resulting from a failure in the Enrollee’s sanitary sewer system.
3. Private Lateral Sewage Discharges – Sewage discharges that are caused by blockages or other problems within a privately owned lateral.

B. SSO Reporting Timeframes
1. Category 1 SSOs – All SSOs that meet the above criteria for Category 1 SSOs must be reported as soon as: (1) the Enrollee has knowledge of the discharge, (2) reporting is possible, and (3) reporting can be provided without substantially impeding cleanup or other emergency measures. Initial reporting of Category 1 SSOs must be reported to the Online SSO System as soon as possible but no later than 3 business days after the Enrollee is made aware of the SSO. Minimum information that must be contained in the 3-day report must include all information identified in section 9 below, except for item 9.K. A final certified report must be completed through the Online SSO System, within 15 calendar days of the conclusion of SSO response and remediation. Additional information may be added to the certified report, in the form of an attachment, at any time.

   The above reporting requirements do not preclude other emergency notification requirements and timeframes mandated by other regulatory agencies (local County Health Officers, local Director of Environmental Health, Regional Water Boards, or Cal EMA) or State law.

2. Category 2 SSOs – All SSOs that meet the above criteria for Category 2 SSOs must be reported to the Online SSO Database within 30 days after the end of the calendar month in which the SSO occurs (e.g. all SSOs occurring in the month of January must be entered into the database by March 1st).

3. Private Lateral Sewage Discharges – All sewage discharges that meet the above criteria for Private Lateral sewage discharges may be reported to the Online SSO Database based upon the Enrollee’s discretion. If a Private Lateral sewage discharge is recorded in the SSO Database, the Enrollee must identify the sewage discharge as occurring and caused by a private lateral, and a
responsible party (other than the Enrollee) should be identified, if known.

4. If there are no SSOs during the calendar month, the Enrollee will provide, within 30 days after the end of each calendar month, a statement through the Online SSO Database certifying that there were no SSOs for the designated month.

5. In the event that the SSO Online Database is not available, the enrollee must fax all required information to the appropriate Regional Water Board office in accordance with the time schedules identified above. In such event, the Enrollee must also enter all required information into the Online SSO Database as soon as practical.

C. SSO On-line Reporting Information
The discharger shall report monthly through the California Integrated Water Quality System Project (CIWQS) website www.waterboards.ca.gov all SSOs.

At a minimum, the following mandatory information must be included prior to finalizing and certifying an SSO report for each category of SSO:

Category 2 SSOs:
A. Location of SSO by entering GPS coordinates;
B. Applicable Regional Water Board, i.e. identify the region in which the SSO occurred;
C. County where SSO occurred;
D. Whether or not the SSO entered a drainage channel and/or surface water;
E. Whether or not the SSO was discharged to a storm drain pipe that was not fully captured and returned to the sanitary sewer system;
F. Estimated SSO volume in gallons;
G. SSO source (manhole, cleanout, etc.);
H. SSO cause (mainline blockage, roots, etc.);
I. Time of SSO notification or discovery;
J. Estimated operator arrival time;
K. SSO destination;
L. Estimated SSO end time; and
M. SSO Certification. Upon SSO Certification, the SSO Database will issue a Final SSO Identification (ID) Number.

Private Lateral Sewage Discharges:
A. All information listed above (if applicable and known), as well as;
B. Identification of sewage discharge as a private lateral sewage discharge; and
C. Responsible party contact information (if known).

Category 1 SSOs:
A. All information listed for Category 2 SSOs, as well as;
B. Estimated SSO volume that reached surface water, drainage channel, or not
recovered from a storm drain;
C. Estimated SSO amount recovered;
D. Response and corrective action taken;
E. If samples were taken, identify which regulatory agencies received sample results (if applicable). If no samples were taken, NA must be selected.
F. Parameters that samples were analyzed for (if applicable);
G. Identification of whether or not health warnings were posted;
H. Beaches impacted (if applicable). If no beach was impacted, NA must be selected;
I. Whether or not there is an ongoing investigation;
J. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the overflow and a schedule of major milestones for those steps;
K. Cal EMA control number (if applicable);
L. Date Cal EMA was called (if applicable);
M. Time Cal EMA was called (if applicable);
N. Identification of whether or not County Health Officers were called;
O. Date County Health Officer was called (if applicable); and
P. Time County Health Officer was called (if applicable).

If there are no sanitary sewer overflows for the month a statement certifying such will be provided through the CIWQS on-line reporting system. Sanitary sewer overflow summary reports and certification statements shall be submitted via the CIWQS system by the 30th day of the month following the spill reporting period.

D. Trend Report
Once a spill has occurred at the same location of a previous spill, whether or not due to the same suspected cause, steps need to be taken to prevent the overflow from recurring and a schedule must be developed to implement a plan of action.

E. Record Keeping
The discharger shall retain records of all SSOs, including, but not limited to:
A. All original strip chart recordings for continuous monitoring instrumentation;
B. Service call records and complaint logs of calls received by the discharger;
C. Spill Calls;
D. Hard copies of all e-mails and internet reports;
E. Spill records including location of overflow and impacted receiving water if any (street address and GPS coordinates);
F. Copies of all SSO reports;
G. An estimate of the volume of the overflow;
H. A description of the sewer system component from which the release occurred (e.g. manhole, constructed overflow pipe, crack in pipe);
I. The estimated date and time when the overflow began and when it stopped;
J. The cause or suspected cause of the overflow;
K. Steps that have been and will be taken to prevent the overflow from recurring and a schedule to implement those steps;
L. Work orders from the previous 3 years that are associated with responses and investigations of system problems related to sanitary sewer overflows;
M. A list and description of complaints from customers or others from the previous 3 years; and
N. Documentation of performance and implementation measures for the previous 3 years.

IV. FOLLOW-UP PROCEDURES

Following the spill response, clean-up, and reporting, additional actions may be required to ensure that similar spills do not occur in the future. These actions can include, but are not limited to, the following:

Coordinated response through the Neighborhood Improvement Services Department (NIS).
- Issuance of a Notice of Violation to the responsible party.
- Issuance of a Administrative Citation to the responsible party.

Coordinated response through the Public Works Department
- Coordination of enforcement action with other agencies (LACDPh, RWQCB, and LACSD).
- Video Recording of Sanitary Sewer Main.
- Repair or reconstruction of Sanitary Sewer Main.
- Monitoring and testing.

VII. DISTRIBUTION AND MAINTENANCE OF SSOERP

A. Submittal and Availability of SSOERP
Copies of the SSOERP and any amendments or updates will be distributed to the Regional Water Quality Control Board. All other personnel who may become incidentally involved in responding to overflows will be familiar with the SSOERP.

B. Review and Update of SSOERP
The SSOERP will be reviewed annually and amended as appropriate. The District shall also update the SSOERP with the issuance of a revised or new NPDES permit or state waste discharge permit.

C. Training
Relevant training programs, reading materials, and videocassette tapes or DVDs that could assist response crews in executing their duties and responsibilities in confirming overflows, identifying their causes, and resolving them will be made available by the Public Works Department. Periodic field drills of the overflow response procedures will be addressed and could be executed in conjunction with other periodic emergency preparedness drills.
APPENDIX 6

PACP SEWER REPORTS
## CRAFTON HILLS COLLEGE SEWER SYSTEM

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**Total**  
6" 2,146  
8" 6,382  

Total $8,528
### SAN BERNARDINO VALLEY COLLEGE SEWER SYSTEM

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**Sub-Total**

- 8 segments 6" 1,876
- 16 segments 8" 2,794
- 8 segments 10" 1,187
- 4 segments 6" 842
- 25 segments 8" 3,832
- 1 segments 10" 140
### PACP Sewer Report

**Surveyed by:** R.ZIEGLER  
**Certificate No.:** U-815-07001103  
**Owner:** SBVC  
**Survey Customer:** SBVC  
**Work order:** SMH1-SMH2  
**Dates:**  
- **Start date/time:** 2015/09/23 11:06  
- **City:** SAN BERNARDINO  
- **Street:** SOUTH MT VERNON  
- **Upstream manhole No.:** SMH1  
- **Downstream manhole No.:** SMH2  

**Measurements:**  
- **Width:** C  
- **Shape:** PVC  
- **Material:** Ln. method: Pipe joint length:  
- **Total length:** 276.9  
- **Length surveyed:** 276.9  
- **Year laid:**  
- **Year renewed:** Media label:  

**Additional Info:**  
- **Grade to invert:** SS  
- **Direction:** D  
- **Flow control:** N  
- **Height:** 8  

**Weather:**  
- **Easting:**  
- **Northing:**  
- **Elevation:**  
- **Coordinate system:**  
- **GPS accuracy:**  

**Starting access point:**  
- **Location code:** D  

**Grade** | **Amount of Structural Segment Grade** | **Structural Pipe Rating** | **Amount of O&M Defects** | **O&M Quick Rating** | **Overall Pipe Rating Index**  
---|---|---|---|---|---  
1 | 0 | 0 | 0 | 0 | 1  
2 | 5 | 10 | 1 | 2 | 2  
3 | 0 | 0 | 0 | 0 | 2  
4 | 0 | 0 | 0 | 0 | 2  
5 | 0 | 0 | 0 | 0 | 2  

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National Plant Services, Inc.  
1461 Harbor Avenue  
Long Beach, Ca. 90813  
Office: 562-436-7600
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LOOKS LIKE THE LATERAL IS BROKEN FROM 8 TO 3

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# PACP Sewer Report

**Surveyed by:** R.ZIEGLER  
**Certificate No.:** U-815-07001103  
**Owner:** SBVC  
**Survey Customer:** SBVC  
**City:** SAN BERNARDINO  
**Street:** SOUTH MT VERNON ST  
**Upstream manhole No.:** SMH2  
**Downstream manhole No.:** SMH3  
**Work order:** SMH2-SMH3  
**Location details:** SMH2  
**Location code:** 1  
**Purpose:** Pre-cleaning  
**Sewer category:** G  
**No.:** N  
**Material:** PVC  
**Ln. method:** C  
**Pipe joint length:**  
**Total length:** 24.2  
**Length surveyed:** 24.1  
**Year laid:**  
**Year renewed:**  
**Flow control:** D  
**Rim to invert:** N  
**Grade to invert:** SS  
**Rim to grade:** D  
**Height:** 8  
**Rim to invert:**  
**Grade to invert:**  
**Rim to grade:**  
**Direction:**  
**Flow control:**  
**Rim to invert:**  
**Grade to invert:**  
**Rim to grade:**  
**Location details:** SMH2  
**Location code:** 1  
**Purpose:** Pre-cleaning  
**Sewer category:** G  
**No.:** N  
**Material:** PVC  
**Ln. method:** C  
**Pipe joint length:**  
**Total length:** 24.2  
**Length surveyed:** 24.1  
**Year laid:**  
**Year renewed:**  
**Flow control:** D  
**Rim to invert:** N  
**Grade to invert:** SS  
**Rim to grade:** D  
**Height:** 8  
**Starting access point:**  

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**Starting access point:**  

**Easting:**  

**Northing:**  

**Elevation:**  

**Coordinate system:**  

**GPS accuracy:**  

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**National Plant Services, Inc.**  
1461 Harbor Avenue  
Long Beach, Ca. 90813  
Office: 562-436-7600
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# PACP Sewer Report

**Work order:** SMH3-SMH4  
**Start date/time:** 2015/09/23 11:55  
**City:** SAN BERNARDINO  
**Street:** SOUTH MT VERNON ST  
**Owner:** SBVC  
**Certificate No.:** U-815-07001103  
**Surveyed by:** R.ZIEGLER  
**Survey Customer:** SBVC  

### Location details:
- **Upstream manhole No.:** SMH3  
- **Downstream manhole No.:** SMH4  
- **Rim to invert:** D  
- **Grade to invert:** N  
- **Height:** 8

### Details of SMH4:
- **Width:** 173.5  
- **Shape:** C  
- **Material:** PVC  
- **Ln. method:** G  
- **Pipe joint length:** 173.5  
- **Pre-cleaning:** N  
- **Date cleaned:** 1  
- **Weather:**  
- **Location code:** D  
- **Additional info:**

### Starting access point:
- **Easting:**  
- **Northing:**  
- **Elevation:**  
- **Coordinate system:**  
- **GPS accuracy:**

### Structural Report:

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**Notes:**
- **Date cleaned:** 2015/09/23  
- **Location details:**
  - **Upstream manhole No.:** SMH3  
  - **Downstream manhole No.:** SMH4  
  - **Rim to invert:** D  
  - **Grade to invert:** N  
  - **Height:** 8  
- **Purpose:**  
- **Sewer category:** G  
- **Pre-cleaning:** N  
- **Date cleaned:** 1  
- **Weather:**  
- **Location code:** D  
- **Additional info:**

---

**Additional Details:**
- **Work order:** SMH3-SMH4  
- **Start date/time:** 2015/09/23 11:55  
- **City:** SAN BERNARDINO  
- **Street:** SOUTH MT VERNON ST  
- **Owner:** SBVC  
- **Certificate No.:** U-815-07001103  
- **Surveyed by:** R.ZIEGLER  
- **Survey Customer:** SBVC  

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**National Plant Services, Inc.**
1461 Harbor Avenue
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Office: 562-436-7600

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**PACP Sewer Report**

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**Friday, February 12, 2016 2:47 PM**

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**Page 1 of 3**
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PACP Sewer Report

Surveyed by: R.ZIEGLER
Certificate No: U-815-07001103
Owner: SBVC
Survey Customer: SBVC
Drainage area: 
Sheet number: 

Work order: 
Pipeline segment ref: SMH4-SMH6
Start date/time: 2015/09/23 12:26
Street: SOUTH MT VERNON ST
City: SAN BERNARDINO

Location details:
Upstream manhole No: SMH4
Rim to invert:
Grade to invert:
Grade to invert:

Downstream manhole No:
Rim to invert:
Grade to invert:
Grade to invert:

SMH6

Width:
Shape:
Material:
Ln. method:
Pipe joint length:

C
PVC

117.3

Total length:
Length surveyed:
Year laid:
Year renewed:
Media label:

117.3

Purpose:
Sewer category:
Pre-cleaning:
Date cleaned:
Weather:
Location code:
Additional info:

G
N
1
D

Starting access point:
Easting:
Northing:
Elevation:
Coordinate system:
GPS accuracy:

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Sheet number:

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Structural Pipe Rating Index

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O&M Pipe Rating

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Overall Pipe Rating Index

2.666667

Overall Pipe Rating

4
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National Plant Services, Inc.
1461 Harbor Avenue
Long Beach, Ca. 90813
Office: 562-436-7600

PACP Sewer Report

Friday, February 12, 2016 2:47 PM
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Surveyed by: R.ZIEGLER  
Owner: SBVC  
Start date/time: 2015/09/23  
Upstream manhole No: SMH4  
Pipeline segment ref: SMH4-SMH6  
Sheet number:  

National Plant Services, Inc.  
1461 Harbor Avenue  
Long Beach, Ca. 90813  
Office: 562-436-7600  

Friday, February 12, 2016 2:47 PM
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Surveyed by: R.ZIEGLER  
Owner: SBVC  
Start date/time: 2015/09/23  
Upstream manhole No: SMH4  
Pipeline segment ref: SMH4-SMH6  
Sheet number: 

National Plant Services, Inc.  
1461 Harbor Avenue  
Long Beach, Ca. 90813  
Office: 562-436-7600  

PACP Sewer Report  
Friday, February 12, 2016 2:47 PM  
Page 3 of 3
# PACP Sewer Report

**Surveyed by:** R.ZIEGLER  
**Certificate No.:** U-815-07001103  
**Owner:** SBVC  
**Survey Customer:** SBVC  
**City:** SAN BENARDINO  
**Street:** EUREKA AVE  
**Drainage area:**  
**Sheet number:**  

**Work order:**  
**Pipeline segment ref:** SMH6-SMH7  
**Start date/time:** 2015/09/24 07:16  
**Upstream manhole No.:** SMH6  
**Rim to invert:**  
**Grade to invert:** SS  
**Rim to grade:**  

**Downstream manhole No.:**  
**Rim to invert:**  
**Grade to invert:**  
**Rim to grade:**  

**Width:**  
**Shape:** C  
**Material:** PVC  
**Ln. method:**  
**Pipe joint length:**  
**Total length:** 119.6  
**Length surveyed:** 119.6  
**Year laid:**  
**Year renewed:**  
**Media label:**  

**Purpose:** G  
**Sewer category:** N  
**Pre-cleaning:**  
**Date cleaned:**  
**Weather:**  
**Location code:** G  
**Additional info:**  

**Starting access point:**  
**Easting:**  
**Northing:**  
**Elevation:**  
**Coordinate system:**  
**GPS accuracy:**  

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### PACP Sewer Report

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#### Work order:
- Pipeline segment ref: SMH7-SMH8
- Start date/time: 2015/09/24 07:48
- Street: EUREKA AVE SBVC PARKING LOT
- City: SAN BERNARDINO

#### Location details:
- Upstream manhole No: SMH7
- Downstream manhole No: SMH8
- Rim to invert: 52.3
- Grade to invert: N
- Rim to grade: D
- Grade to grade: SS
- Year laid: 2015
- Year renewed: 2016
- Media label: PVC
- Length surveyed: 52.3
- Direction: D
- Flow control: N
- Height: 8

#### Starting access point:
- Easting: 1
- Northing: N
- Elevation: 0
- Coordinate system: G
- GPS accuracy: 0

#### Structural Pipe Rating Index

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PACP Sewer Report

Surveyed by: R.ZIEGLER  
Certificate No: U-815-07001103  
Owner: SBVC  
Survey Customer: SBVC  
Drainage area:  
Sheet number:  

Work order: SMH10-SMH11  
Start date/time: 2015/09/24 08:50  
Street: COLLEGE DRIVE SBVC  
City: SAN BENARDINO  

Location details:  
Upstream manhole No: SMH10  
Rim to invert:  
Grade to invert: SS  
Rim to grade:  

Downstream manhole No: SMH11  
Rim to invert:  
Grade to invert:  
Rim to grade:  

Width: C  
Shape: PVC  
Material:  
Ln. method:  
Pipe joint length:  
Total length: 272.3  
Length surveyed: 272.3  
Year laid:  
Year renewed:  
Media label:  

Purpose: G  
Sewer category: N  
Pre-cleaning:  
Date cleaned:  
Weather:  
Location code: C  
Additional info:  

Starting access point:  

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Surveyed by: R.ZIEGLER  
Owner: SBVC  
Start date/time: 2015/09/24  
Upstream manhole No: SMH10  
Pipeline segment ref: SMH10-SMH11  
Sheet number:  

O&M

National Plant Services, Inc.
1461 Harbor Avenue
Long Beach, Ca. 90813
Office: 562-436-7600
PACP Sewer Report

Surveyed by: R.ZIEGLER
Certificate No: U-815-07001103
Owner: SBVC
Survey Customer: SBVC
Drainage area:
Sheet number:

City:
SAN BENARDINO
Street:
COLLEGE DRIVE SBVC

Work order:
SMH11-SMH12
Start date/time: 2015/09/24 09:59

Location details:
Upstream manhole No: SMH11

Downstream manhole No: SMH12
Rim to invert:

Grade to invert:

Rim to grade:
SS 10

Grade to invert:

Rim to grade:
D N 10

Year laid:

Year renewed:

Media label:

Width: C
Shape: PVC
Material: Ln. method:
Pipe joint length:

Total length: 275.9
Length surveyed: 275.9

Year renewed:

Purpose:
Pre-cleaning
Date cleaned:
Weather:
Location code:
Additional info:

Easting:
Nothing:
Elevation:
Coordinate system:
GPS accuracy:

Starting access point:

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PACP Sewer Report

Friday, February 12, 2016 2:47 PM

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Surveyed by: R. ZIEGLER  
Owner: SBVC  
Start date/time: 2015/09/24  
Upstream manhole No: SMH11  
Pipeline segment ref: SMH11-SMH12  
Sheet number:  

National Plant Services, Inc.  
1461 Harbor Avenue  
Long Beach, Ca. 90813  
Office: 562-436-7600  

PACP Sewer Report  
Friday, February 12, 2016 2:47 PM  
Page 3 of 3
### PACP Sewer Report

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#### Location details:
- **Upstream manhole No:** SMH20
- **Rim to invert:** U
- **Grade to invert:** N
- **Height:** 10

#### Downstream manhole No:
- **Rim to invert:** U
- **Grade to invert:** N
- **Sewer use:** SS
- **Direction:** U
- **Flow control:** N
- **Year laid:** 2015/09/24
- **Year renewed:** 2015/09/24
- **Media label:** C

#### Width:
- **Shape:** C
- **Material:** PVC
- **Ln. method:** G
- **Pipe joint length:** 53.8
- **Total length:** 53.3
- **Length surveyed:** 53.3

#### Purpose:
- **Sewer category:** N
- **Pre-cleaning:** 1
- **Date cleaned:** C
- **Weather:** 1
- **Location code:** C

#### Starting access point:
- **Easting:** 0
- **Northing:** 0
- **Elevation:** 0
- **Coordinate system:** 0
- **GPS accuracy:** 0

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### PACP Sewer Report

**Surveyed by:** R.ZIEGLER  
**Certificate No.:** U-815-07001103  
**Owner:** SBVC  
**Survey Customer:** SBVC  

**City:** SAN BENARDINO  
**Street:** K STREET SBVC CUSTODIAL STORAGE  
**Upstream manhole No.:** SMH16  
**Location code:** N  
**Pre-cleaning:** C  
**Material:** PVC  
**Pipe joint length:** 195.5  
**Total length:** 195.5  
**Length surveyed:** 195.5  
**Year laid:**  
**Year renewed:**  
**Direction:** SS  
**Flow control:** U  
**Height:** N  
**Height:** 10  

**Starting access point:**  
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National Plant Services, Inc.  
1461 Harbor Avenue  
Long Beach, Ca. 90813  
Office: 562-436-7600
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### PACP Sewer Report

**Surveyed by:** R.ZIEGLER  
**Certificate No.:** U-815-07001103  
**Owner:** SBVC  
**Survey Customer:** SBVC  
**Drainage area:**  
**City:** SAN BENARDINO  
**Street:** K STREET SBVC CUSTODIAL STORAGE  
**Location details:**  
**Upstream manhole No.:** SMH15  
**Rim to invert:**  
**Grade to invert:**  
**Rim to grade:**  
**Downstream manhole No.:** SMH14  
**Rim to invert:**  
**Grade to invert:**  
**Grade to invert:**  
**Height:**  
**Purpose:** Pre-cleaning  
**Date cleaned:**  
**Weather:**  
**Location code:**  
**Additional info:**  
**Starting access point:**  
**Easting:**  
**Northing:**  
**Elevation:**  
**Coordinate system:**  
**GPS accuracy:**  

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## PACP Sewer Report

**Surveyed by:** R.ZIEGLER  |  **Certificate No.:** U-815-07001103  |  **Owner:** SBVC  |  **Drainage area:**  |  **Sheet number:**

**Work order:**  |  **Pipeline segment ref.:** SMH14-SMH13  |  **Start date/time:** 2015/09/24 12:28  |  **Street:** K STREET CUSTODIAL STORAGE  |  **City:** SAN BENARDINO

**Location details:**  |  **Upstream manhole No.:** SMH14  |  **Rim to invert:**  |  **Grade to invert:**  |  **Rim to grade:**

**Downstream manhole No.:** SMH13  |  **Rim to invert:**  |  **Grade to invert:**  |  **Rim to grade:**  |  **Sewer use:** SS  |  **Direction:** U  |  **Flow control:** N  |  **Height:** 10

**Width:**  |  **Shape:** C  |  **Material:** PVC  |  **Ln. method:**  |  **Pipe joint length:**  |  **Total length:** 184.1  |  **Length surveyed:** 184.0  |  **Year laid:**  |  **Year renewed:**  |  **Media label:**

**Purpose:** Sewer category: G  |  **Pre-cleaning:** N  |  **Date cleaned:** 1  |  **Weather:** C  |  **Location code:**  |  **Additional info:**

**Starting access point:**

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**SAN BENARDINO K STREET CUSTODIAL STORAGE**

**Owner:** SBVC  |  **Survey Customer:** SBVC  |  **Date cleaned:** 2015/09/24  |  **Pre-cleaning:**  |  **Purpose:**  |  **Sewer category:**  |  **Material:** PVC  |  **Additional info:**  |  **Shape:** C  |  **Grade to invert:** N  |  **Flow control:**  |  **Height:** 10  |  **Location code:** 1  |  **Weather:** C  |  **Overall Pipe Rating Index:** 0  |  **Overall Pipe Rating:** 0  |  **Overall Pipe Rating Index:** 0  |  **Media label:**

---

**National Plant Services, Inc.**

1461 Harbor Avenue  
Long Beach, Ca. 90813  
Office: 562-436-7600

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**National Plant Services, Inc.**

1461 Harbor Avenue  
Long Beach, Ca. 90813  
Office: 562-436-7600
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<th>Group/ Descriptor</th>
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Surveyed by: R.ZIEGLER
Owner: SBVC
Start date/time: 2015/09/24
Upstream manhole No: SMH14
Pipeline segment ref: SMH14-SMH13
Sheet number: 

National Plant Services, Inc.
1461 Harbor Avenue
Long Beach, Ca. 90813
Office: 562-436-7600

PACP Sewer Report
PACP Sewer Report

Surveyed by: R.ZIEGLER
Certificate No: U-815-07001103
Owner: SBVC
Survey Customer: SBVC
Drainage area: 
Sheet number: 

Work order: SMH20-SMH21
Start date/time: 2015/09/24 13:12
Street: K STREET SBVC CUSTODIAL STORAGE
City: SAN BENARDINO

Location details: 
Upstream manhole No: SMH20

Downstream manhole No: SMH21
Rim to invert: 
Grade to invert: 
Rim to grade: 

Width: C
Shape: PVC
Material: 
Ln. method: 
Pipe joint length: 
Purpose: Sewer category: Pre-cleaning Date cleaned: Weather: Location code: Additional info: 

Starting access point: 
Easting: Northing: Elevation: Coordinate system: GPS accuracy: 

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Long Beach, Ca. 90813
Office: 562-436-7600
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### PACP Sewer Report

**Surveyed by:** R.ZIEGLER  
**Certificate No.:** U-815-07001103  
**Owner:** SBVC  
**Survey Customer:** SBVC  
**Drainage area:**  
**Sheet number:**  

**Work order:** SMH16-SMH44  
**Start date/time:** 2015/09/25 06:59  
**Street:** K STREET SBVC CUSTODIAL STORAGE AREA  
**City:** SAN BENARDINO  
**Location details:**  

**Upstream manhole No.:** SMH16  
**Rim to invert:** U  
**Grade to invert:** SS  
**Rim to grade:**  

**Downstream manhole No.:** SMH44  
**Rim to invert:**  
**Grade to invert:**  
**Rim to grade:**  

**Width:** 2.9  
**Shape:** C  
**Material:** PVC  
**Ln. method:**  
**Pipe joint length:** 2.9  
**Total length:**  
**Length surveyed:** 2.9  
**Year laid:**  
**Year renewed:**  
**Media label:**  

**Purpose:** Sewer category: G  
**Pre-cleaning:** N  
**Date cleaned:** 1  
**Weather:**  
**Location code:** G  
**Additional info:**  

**Starting access point:**  

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### PACP Sewer Report

**Surveyed by:** R.ZIEGLER  
**Certificate No.:** U-815-07001103  
**Owner:** SBVC  
**Survey Customer:** SBVC  
**Drainage area:**  
**Sheet number:**  

**City:** SAN BENARDINO  
**Street:** K STREET SBVC  
**Location code:** R.ZIEGLER  
**Pre-cleaning:**  
**Purpose:**  
**Sewer category:**  
**Material:**  
**Additional info:**  

**Work order:** SMH21-SMH22  
**Start date/time:** 2015/09/25 07:57  
**Downstream manhole No.:** SMH22  
**Rim to invert:**  
**Grade to invert:**  
**Rim to grade:**  

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<th>Year laid</th>
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**Pre-cleaning:**  
**Date cleaned:**  
**Weather:**  
**Location code:**  
**Starting access point:**  

**Certificate No.:** U-815-07001103  
**Pipeline segment ref:** SMH21-SMH22  
**Owner:** SBVC  
**Surveyed by:** R.ZIEGLER  

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### Location details:

**Upstream manhole No.:** SMH21  
**Rim to invert:**  
**Grade to invert:**  
**Rim to grade:**  

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### Additional fields:

**Easting:**  
**Northing:**  
**Elevation:**  
**Coordinate system:**  
**GPS accuracy:**
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Surveyed by: R.ZIEGLER  
Owner: SBVC  
Start date/time: 2015/09/25  
Upstream manhole No: SMH21  
Pipeline segment ref: SMH21-SMH22  
Sheet number: 

National Plant Services, Inc.  
1461 Harbor Avenue  
Long Beach, Ca. 90813  
Office: 562-436-7600
**PACP Sewer Report**

Surveyed by: R.ZIEGLER  
Owner: SBVC  
Street: K STREET  
City: SAN BENARDINO  

Start date/time: 2015/09/25 08:20  
Upstream manhole No: SMH22  
Downstream manhole No: SMH23  

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Surveyed by: R.ZIEGLER  
Owner: SBVC  
Start date/time: 2015/09/25  
Upstream manhole No: SMH22  
Pipeline segment ref: SMH22-SMH23  
Sheet number:  

National Plant Services, Inc.  
1461 Harbor Avenue  
Long Beach, Ca. 90813  
Office: 562-436-7600  

PACP Sewer Report  
Friday, February 12, 2016 2:47 PM  
Page 2 of 2
## PACP Sewer Report

### Surveyed by:
- R.ZIEGLER

### Certificate No:
- U-815-07001103

### Owner:
- SBVC

### Survey Customer:
- SBVC

### Drainage area:

### City:
- SAN BENARDINO

### Work order:
- SMH59SMH23

### Start date/time:
- 2015/09/25 08:54

### Street:
- GRANT AVE

### City:
- SAN BENARDINO

### Location details:
- SMH59

### Upstream manhole No:
- SMH59

### Rim to invert:
- D

### Grade to invert:
- G

### Rim to grade:
- C

### Downstream manhole No:
- SMH23

### Rim to invert:
- C

### Grade to invert:
- G

### Rim to grade:
- C

### Total length:
- 125.2

### Length surveyed:
- 125.2

### Year laid:

### Year renewed:

### Direction:
- SS

### Flow control:
- D

### Height:
- N 10

### Material:
- PVC

### Pipe joint length:

### Lm. method:

### Purpose:
- Sewer category: G
- Pre-cleaning: N
- Date cleaned: 1
- Weather: C
- Location code: 1
- Additional info:

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## PACP Sewer Report

### Surveyed by: R.ZIEGLER
### Certificate No: U-815-07001103
### Street: GRANT AVE
### City: SAN BENARDINO
### Owner: SBVC
### Survey Customer: SBVC
### Drainage area:

### Work order: SMH59-SMH58
### Start date/time: 2015/09/25 09:10
### Street: GRANT AVE
### City: SAN BENARDINO

### Location details:

#### Location code: C
#### Pre-cleaning: N
#### Date cleaned: 1
#### Weather: C
#### Additional info:

### Downstream manhole No: SMH58
### Rim to invert: 238.3
### Grade to invert: 238.3
### Sewer use: SS
### Direction: U
### Flow control: N
### Height: 10

### Upstream manhole No: SMH59
### Rim to invert: 
### Grade to invert: 
### Rim to grade: 

### Pipeline segment ref: SMH59-SMH58
### Start date/time: 2015/09/25 09:10

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### PACP Sewer Report

**Surveyed by:** R.ZIEGLER  
**Certificate No.:** U-815-07001103  
**Owner:** SBVC  
**Survey Customer:** SBVC  
**Drainage area:**  
**Sheet number:**  
**City:** SAN BENARDINO  
**Street:** GRANT AVE SBVC  
**Upstream manhole No:** SMH59  
**Height:**  
**Pipe joint length:**  
**Total length:**  
**Sewer use:**  
**Location code:**  
**Pre-cleaning:**  
**Purpose:**  
**Sewer category:**  
**Material:** PVC  
**Additional info:**  
**Shape:** C  
**Ln. method:**  
**Flow control:**  
**Direction:** U  
**Year renewed:**  
**Media label:**  

**Rim to invert:**  
**Grade to invert:** SS  
**Rim to grade:**  
**Flow control:**  
**Direction:** U  
**Year renewed:**  
**Media label:**  

**Width:**  
**Shape:** C  
**Material:** PVC  
**Pipe joint length:**  
**Total length:** 29.0  
**Length surveyed:** 29.0  
**Year laid:**  
**Year renewed:**  
**Starting access point:**  
**Easting:**  
**Northing:**  
**Elevation:**  
**Coordinate system:**  
**GPS accuracy:**  

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**Location details:**  
**Work order:** SMH59-SMH41  
**Start date/time:** 2015/09/25 10:18

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**Work order:** SMH59-SMH41  
**Start date/time:** 2015/09/25 10:18  
**Street:** GRANT AVE SBVC  
**City:** SAN BENARDINO  
**Upstream manhole No:** SMH59  
**Downstream manhole No:** SMH41  
**Rim to invert:**  
**Grade to invert:** SS  
**Rim to grade:**  
**Flow control:**  
**Direction:** U  
**Year renewed:**  
**Media label:**  

**Width:**  
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**Material:** PVC  
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**Total length:** 29.0  
**Length surveyed:** 29.0  
**Year laid:**  
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**Starting access point:**  
**Easting:**  
**Northing:**  
**Elevation:**  
**Coordinate system:**  
**GPS accuracy:**  

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**Starting access point:**  
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## Survey Information

- **Surveyed by:** R. Zieglar  
- **Owner:** SBVC  
- **Start date/time:** 2015/09/25  
- **Upstream manhole No.:** SMH41  
- **Pipeline segment ref.:** SMH41-SMH59  
- **Sheet number:**

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**National Plant Services, Inc.**  
1461 Harbor Avenue  
Long Beach, Ca. 90813  
Office: 562-436-7600
## PACP Sewer Report

**Surveyed by:** R.ZIEGLER  
**Certificate No.:** U-815-07001103  
**Owner:** SBVC  
**Survey Customer:** SBVC  
**Drainage area:**  
**City:** SAN BENARDINO  
**Street:** GRANT AVE SBVC  
**Location details:**  
**Upstream manhole No.:** SMH41  
**Rim to invert:**  
**Grade to invert:**  
**Rim to grade:**  
**Downstream manhole No.:** SMH34  
**Rim to invert:**  
**Grade to invert:**  
**Rim to grade:**  
**Width:** C  
**Shape:** PVC  
**Material:** LN. method: Pipe joint length:  
**Total length:** 6.0  
**Length surveyed:** 6.0  
**Year laid:**  
**Year renewed:**  
**Media label:**  
**Purpose:** Sewer category: Pre-cleaning Date cleaned: Weather: Location code: Additional info:  
**Starting access point:**  

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**Certificate No.:** U-815-07001103  
**Pipeline segment ref.:** SMH41-SMH34  
**Starting access point:**

**R.ZIEGLER**

**1461 Harbor Avenue**

**Long Beach, Ca. 90813**

**Office: 562-436-7600**

**Friday, February 12, 2016 2:47 PM**
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### PACP Sewer Report

**Surveyed by:** R.ZIEGLER  |  **Certificate No.:** U-815-07001103  |  **Owner:** SBVC  |  **Survey Customer:** SBVC  |  **Drainage area:**  |  **Sheet number:**  
**City:** SAN BENARDINO  |  **Street:** GRANT AVE SBVC PARKING LOT  |  **Upstream manhole No.:** SMH45  |  **Height:**  |  **Total length:**  

**Location details:** PARKING LOT  
**Downstream manhole No.:** SMH46  
**Rim to invert:** SMH45  
**Grade to invert:** SS  
**Rim to grade:** D  
**Flow control:** D  
**Height:** N  
**10**

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**Purpose:** G  
**Sewer category:** N  
**Pre-cleaning:** 1  
**Date cleaned:** G  
**Weather:**  
**Location code:**  
**Additional info:**  
**Starting access point:**  
**Easting:**  
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**GPS accuracy:**  

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PACP Sewer Report

Surveyed by: R.ZIEGLER
Certificate No: U-815-07001103
Owner: SBVC
Survey Customer: SBVC

Work order: Pipeline segment ref: SMH46-SMH47
Start date/time: 2015/09/25 12:28
Street: GRANT AVE SBVC PARKING LOT
City: SAN BENARDINO

Location details:
Location code: G
Purpose: Sewer category: N
Pre-cleaning: N
Date cleaned: 1
Weather: G
Location code: G

Starting access point:
Easting: 0
Northing: 0
Elevation: 0
Coordinate system: 0
GPS accuracy: 0

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PACP Sewer Report

National Plant Services, Inc.
1461 Harbor Avenue
Long Beach, Ca. 90813
Office: 562-436-7600

The Environmental Protection Specialists

Friday, February 12, 2016 2:47 PM
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Surveyed by: R.ZIEGLER
Owner: SBVC
Start date/time: 2015/09/25
Upstream manhole No: SMH46
Pipeline segment ref: SMH46-SMH47
Sheet number: 2

National Plant Services, Inc.
1461 Harbor Avenue
Long Beach, Ca. 90813
Office: 562-436-7600

PACP Sewer Report
Friday, February 12, 2016 2:47 PM
## PACP Sewer Report

### Location details:
- **PARKING LOT**

### Downstream manhole No:
- SMH47

### Rim to invert:
- SMH48

### Grade to invert:
- C

### Material:
- PVC

### Ln. method:
- Structural Pipe

### Pipe joint length:
- 266.4

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Surveyed by: R.ZIEGLER  
Owner: SBVC  
Start date/time: 2015/09/25  
Upstream manhole No: SMH47  
Pipeline segment ref: SMH47-SMH48  
Sheet number:  

Distance (Feet) (Meters)  
Video Ref.  
Group/ Descriptor  
Modifier/ Severity  
Continuous Defect  
S/M/L  
Value Inches (mm)  
%  
Joint  
Circumferential Location  
Image Ref.  
Family  
Rating  
Remarks  

San Bernardino Valley College-SMH47 7-SMH48 AMH at 0.0 ft (D).jpg  
San Bernardino Valley College-SMH47 7-SMH48 MWL at 0.1 ft (D).jpg  
San Bernardino Valley College-SMH47 7-SMH48 MWM at 0.1 ft (D).jpg  
San Bernardino Valley College-SMH47 7-SMH48 AMH at 266.4 ft (D).jpg  

National Plant Services, Inc.  
1461 Harbor Avenue  
Long Beach, Ca. 90813  
Office: 562-436-7600  

PACP Sewer Report  
Friday, February 12, 2016 2:47 PM  
Page 2 of 2
### PACP Sewer Report

**Surveyed by:** R.ZIEGLER  
**Certificate No.:** U-815-07001103  
**Owner:** SBVC  
**Survey Customer:** SBVC  
**Drainage area:**  
**Sheet number:**  
**City:** SAN BENARDINO  
**Street:** GRANT AVE SBVC PARKING LOT  
**Upstream manhole No.:** SMH48  
**Height:**  
**Pipe joint length:**  
**Total length:**  
**Sewer use:**  
**Location code:**  
**Weather:**  
**Direction:**  
**Flow control:**  
**Height:**  
**Year renewed:**  
**Media label:**  
**Year laid:**  
**Length surveyed:**  
**Grade to invert:**  
**Rim to invert:**  
**Grade to grade:**  
**Rim to grade:**  
**Location details:** PARKING LOT  
**Start date/time:** 2015/09/25 13:03  
**Pipeline segment ref:** SMH48-SMH56  

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Surveyed by: R.ZIEGLER  
Owner: SBVC  
Start date/time: 2015/09/25  
Upstream manhole No: SMH48  
Pipeline segment ref: SMH48-SMH56  
Sheet number:  

National Plant Services, Inc.  
1461 Harbor Avenue  
Long Beach, Ca. 90813  
Office: 562-436-7600
### PACP Sewer Report

**Surveyed by:** R.ZIEGLER  
**Certificate No.:** U-815-07001103  
**Owner:** SBVC  
**Survey Customer:** SBVC  
**City:** SAN BENARDINO  
**Street:** GRANT AVE SBVC PARKING LOT  
**Drainage area:**  
**Work order:**  
**Pipeline segment ref:** SMH56-SMH57  
**Start date/time:** 2015/09/25 14:15  
**Location details:** PARKING LOT  
**Upstream manhole No.:** SMH56  
**Rim to invert:**  
**Grade to invert:**  
**Rim to grade:**  
**Direction:**  
**Flow control:**  
**Height:**  
**Width:**  
**Shape:** C  
**Material:** PVC  
**Ln. method:**  
**Pipe joint length:**  
**Purpose:** Sewer category: N  
**Pre-cleaning:**  
**Date cleaned:**  
**Weather:**  
**Location code:** G  
**Additional info:**  
**Starting access point:**  

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Surveyed by: R. ZIEGLER  
Owner: SBVC  
Start date/time: 2015/09/25  
Upstream manhole No: SMH56  
Pipeline segment ref: SMH56-SMH57  
Sheet number:  

---

National Plant Services, Inc.  
1461 Harbor Avenue  
Long Beach, Ca. 90813  
Office: 562-436-7600  

---

The Environmental Protection Specialists
### PACP Sewer Report

**Surveyed by:** R.ZIEGLER  
**Certificate No.:** U-815-07001103  
**Owner:** SBVC  
**Survey Customer:** SBVC  
**Drainage area:**  
**Sheet number:**  

**Work order:**  
**Pipeline segment ref:** SMH56-SMH48  
**Start date/time:** 2015/09/25 14:30  
**Street:** GRANT AVE SBVC PARKING LOT  
**City:** SAN BENARDINO  

**Location details:**  
**Location code:**  
**Pre-cleaning:**  
**Purpose:**  
**Sewer category:**  
**Material:** PVC  
**Additional info:**  

**Downstream manhole No:** SMH48  
**Rim to invert:**  
**Grade to invert:**  
**Rim to grade:**  

**Width:**  
**Shape:** C  
**Material:** PVC  
**Ln. method:**  
**Pipe joint length:**  

**Purpose:** Sewer category: G  
**Pre-cleaning:** N  
**Date cleaned:**  
**Weather:**  
**Location code:** G  

**Starting access point:**  
**Easting:**  
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### PACP Sewer Report

**Surveyed by:** R.ZIEGLER  
**Certificate No:** U-815-07001103  
**Owner:** SBVC  
**Survey Customer:** SBVC  
**Drainage area:**  
**Sheet number:**  
**City:** SAN BENARDINO  
**Street:** GRANT AVE PARKING LOT  
**Upstream manhole No:** SMH48  
**Height:** 208.0  
**Downstream manhole No:** SMH55  
**Rim to invert:** U  
**Grade to invert:** SS  
**Width:** 208.0  
**Material:** PVC  
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**Grade:**  
**Shape:**  
**Ln. method:**  
**Pipe joint length:**  
**Total length:**  
**Length surveyed:**  
**Year laid:**  
**Year renewed:**  
**Flow control:**  
**Medial label:**  
**Purpose:** Sewer category: Pre-cleaning  
**Date cleaned:**  
**Weather:**  
**Location code:**  
**Additional info:**  
**Starting access point:**  

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Surveyed by: R.ZIEGLER  
Owner: SBVC  
Start date/time: 2015/09/25  
Upstream manhole No: SMH48  
Pipeline segment ref: SMH48-SMH55  
Sheet number:  

PACP Sewer Report  
Friday, February 12, 2016 2:47 PM
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### PACP Sewer Report

**Surveyed by:** R.ZIEGLER  
**Owner:** SBVC  
**Certificate No:** U-815-07001103  
**Surveyed by:** R.ZIEGLER  
**Owner:** SBVC  
**Sheet number:**  

**City:** SAN BENARDINO  
**Street:** GRANT AVE SBVC PARKING LOT  
**Width:**  
**Height:**  
**Pipe joint length:**  
**Total length:**  

**Pre-cleaning:**  
**Sewer category:**  
**Material:** PVC  
**Additional info:**  

**Location details:** PARKING LOT  
**Upstream manhole No:** SMH55  
**Rim to invert:**  
**Grade to invert:**  
**Rim to grade:**  

**Downstream manhole No:** SMH54  
**Rim to invert:**  
**Grade to invert:**  
**Rim to grade:**  

**Purpose:** Sewer category: G  
**Pre-cleaning:** N  
**Date cleaned:**  
**Weather:**  
**Location code:** G  

**Starting access point:**  

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<th>Amount of O&amp;M Defects</th>
<th>O&amp;M Segment Grade</th>
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**Certificate No:** U-815-07001103  
**Pipeline segment ref:** SMH55-SMH54  
**Starting access point:**  

**GM Survey Customer:**  
**Year laid:**  
**Year renewed:**  
**Media label:**  
**Flow control:** U  
**Direction:** N  
**Height:** 8  

**Total length:** 148.1  
**Length surveyed:** 148.1  
**Grade to invert:** N  

**Easting:**  
**Northing:**  
**Elevation:**  

**Coordinate system:**  
**GPS accuracy:**  

**Date cleaned:** 2015/09/25 15:51  
**Location details:**  

**R.ZIEGLER:**  
**Surveyed by:** R.ZIEGLER  
**Owner:** SBVC  
**Sheet number:**  

**SAN BENARDINO:**  
**GRANT AVE SBVC PARKING LOT:**  
**Width:**  
**Height:**  
**Pipe joint length:**  
**Total length:**  

**Pre-cleaning:**  
**Sewer category:**  
**Material:** PVC  
**Additional info:**  

**Location details:** PARKING LOT  
**Upstream manhole No:** SMH55  
**Rim to invert:**  
**Grade to invert:**  
**Rim to grade:**  

**Downstream manhole No:** SMH54  
**Rim to invert:**  
**Grade to invert:**  
**Rim to grade:**  

**Purpose:** Sewer category: G  
**Pre-cleaning:** N  
**Date cleaned:**  
**Weather:**  
**Location code:** G  

**Starting access point:**  

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**Certificate No:** U-815-07001103  
**Pipeline segment ref:** SMH55-SMH54  
**Starting access point:**  

**GM Survey Customer:**  
**Year laid:**  
**Year renewed:**  
**Media label:**  
**Flow control:** U  
**Direction:** N  
**Height:** 8  
**Total length:** 148.1  
**Length surveyed:** 148.1  
**Grade to invert:** N  

**Easting:**  
**Northing:**  
**Elevation:**  

**Coordinate system:**  
**GPS accuracy:**  

**Date cleaned:** 2015/09/25 15:51  
**Location details:**  

**R.ZIEGLER:**  
**Surveyed by:** R.ZIEGLER  
**Owner:** SBVC  
**Sheet number:**  

**SAN BENARDINO:**  
**GRANT AVE SBVC PARKING LOT:**  
**Width:**  
**Height:**  
**Pipe joint length:**  
**Total length:**  

**Pre-cleaning:**  
**Sewer category:**  
**Material:** PVC  
**Additional info:**  

**Location details:** PARKING LOT  
**Upstream manhole No:** SMH55  
**Rim to invert:**  
**Grade to invert:**  
**Rim to grade:**  

**Downstream manhole No:** SMH54  
**Rim to invert:**  
**Grade to invert:**  
**Rim to grade:**  

**Purpose:** Sewer category: G  
**Pre-cleaning:** N  
**Date cleaned:**  
**Weather:**  
**Location code:** G  

**Starting access point:**  

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**PACP Sewer Report**

Surveyed by: R.ZIEGLER  
Certificate No: U-815-07001103  
Owner: SBVC  
Survey Customer: SBVC  
Drainage area:  
Sheet number:  

Work order:  
Pipeline segment ref: SMH36-SMH31  
Start date/time: 2015/09/25 16:48  
Street: GRANT AVE SBVC PARKING LOT  
City: SAN BENARDINO  

Location details: PARKING LOT  
Upstream manhole No: SMH36  
Rim to invert:  
Grade to invert:  
Rim to grade:  

Downstream manhole No: SMH31  
Rim to invert:  
Grade to invert:  
Rim to grade:  

Width: C  
Shape: PVC  
Material:  
Ln. method:  
Pipe joint length:  
Total length: 16.3  
Length surveyed: 16.3  
Year laid:  
Year renewed:  
Media label:  

Purpose: Sewer category: Pre-cleaning  
Date cleaned:  
Weather:  
Location code: G  
Additional info:  

**Starting access point:**  
Easting:  
Northing:  
Elevation:  
Coordinate system:  
GPS accuracy:  

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### PACP Sewer Report

**Surveys by:**
R ZIEGLER

**Certificate No.:**
U-815-07001103

**Owner:**
SBVC

**Survey Customer:**
SBVC

**City:**
SAN BENARDINO

**Street:**
MT VERNON NEAR STUDENT SERVICES

**Start date/time:**
2015/09/30 08:58

**Upstream manhole No.:**
SMH2

**Location details:**
NEAR STUDENT SERVICES

**Downstream manhole No.:**
SOUTH LATERAL

**Rim to invert:**
0.0

**Grade to invert:**
0.0

**Height:**
U N 6

**Width:**
C

**Shape:**
PVC

**Material:**
0.0

**Ln. method:**
0.0

**Pipe joint length:**
0.0

**Purpose:**
G

**Sewer category:**
N

**Pre-cleaning:**
1

**Date cleaned:**
D

**Weather:**
1

**Location code:**
D

**Additional info:**
NO ACCESS DUE TO THE MANHOLE BEING ON CAMPUS SIDEWALK AND COULD NOT FIT THE TRUCK WHERE THE MANHOLE IS LOCATED

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**Media label:**
SBVC

**Owner:**
SBVC

**Surveyed by:**
SBVC

**Survey Customer:**
SBVC

**Sheet number:**
1

**Certificate No.:**
U-815-07001103

**Pipeline segment ref:**
SMH2-SOUTH LATERAL

**Year renewed:**
0.0

**Year laid:**
0.0

**Date cleaned:**
08:58

**Curves:**
0.0

**Amount of Structural Defects:**
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**Structure Pipe Quick Rating:**
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**Structure Pipe Rating Index:**
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**Amount of O&M Defects:**
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**O&M Quick Rating:**
0

**O&M Pipe Rating Index:**
0

**Overall Pipe Rating:**
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**Overall Pipe Rating Index:**
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**National Plant Services, Inc.**

1461 Harbor Avenue

Long Beach, Ca. 90813

Office: 562-436-7600

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**PACP Sewer Report**

Friday, February 12, 2016 2:47 PM

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**Page**

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**of**

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**2**
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### PACP Sewer Report

**Surveyed by:** R.ZIEGLER  
**Certificate No.:** U-815-07001103  
**Owner:** SBVC  
**Survey Customer:** SBVC  
**Drainage area:**  
**City:** SAN BENARDINO  
**Work order:**  
**Pipeline segment ref:** SMH4-SMH5  
**Start date/time:** 2015/09/30 09:06  
**Location details:**  
**Street:** MT VERNON NEAR HEALTH AND LIFE SCIENCES  
**City:** SAN BENARDINO  
**Work order:**  
**Pipeline segment ref:** SMH4-SMH5  
**Start date/time:** 2015/09/30 09:06  
**Location details:**  
**Upstream manhole No:** SMH4  
**Rim to invert:**  
**Grade to invert:**  
**Rim to grade:**  
**Downstream manhole No:** SMH5  
**Width:** C  
**Shape:** PVC  
**Material:**  
**Ln. method:**  
**Pipe joint length:** 0.0  
**Total length:** 0.0  
**Length surveyed:** 0.0  
**Year laid:**  
**Year renewed:**  
**Sewer use:** SS  
**Direction:** U  
**Flow control:** N  
**Height:** 8  
**Purpose:** G  
**Sewer category:** N  
**Pre-cleaning:**  
**Date cleaned:** 1  
**Weather:** F  
**Location code:**  
**Additional info:** CANNOT CCTV DUE TO THE LOCATION OF THE MH  
**Easting:**  
**Northing:**  
**Elevation:**  
**Coordinate system:**  
**GPS accuracy:**  

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PACP Sewer Report

Surveyed by: R.ZIEGLER
Certificate No: U-815-07001103
Owner: SBVC

Survey Customer: SBVC
Drainage area: 

City: SAN BENARDINO
Street: MT VERNON

Work order: 
Pipeline segment ref: SECTION A-7-LATERAL GOING SOUTH
Start date/time: 2015/09/30 09:15

Location details:
Location code:
Pre-cleaning:
Purpose:
Sewer category:
Material:
Additional info:
Shape:
Grade to invert:

Downstream manhole No: LATERAL GOING SOUTH
Rim to invert: 
Grade to invert: 
Grade to grade: 
Sewer use: 
Direction: 
Flow control: 
Height: 

Width: 
Shape: 
Material: 
Ln. method: 
Pipe joint length: 
Total length: 
Length surveyed: 
Year laid: 
Year renewed: 
Media label: 

Purpose: 
Sewer category: 
Pre-cleaning:
Date cleaned: 
Weather:
Location code: 
Additional info:

THIS SECTION WAS NOT CCTV'ED DUE TO THE LOCATION OF THE MAN HOLE THIS VIDEO IS JUST FOR REFERENCE NO SECTION NUMBER

Starting access point:
Easting: 
Northing: 
Elevation: 
Coordinate system: 
GPS accuracy:

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SAN BENARDINO
ESPERANZA STREET JUST WEST OF FUTURE TECH BUILDING

RIM TO INVERT
GRADE TO INVERT

THIS VIDEO IS JUST A REFERENCE AND WAS NOT CCTV'ED DUE TO NOT HAVING ACCESS

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PACP Sewer Report

Surveyed by: R.ZIEGLER
Certificate No: U-815-07001103
Owner: SBCV
Survey Customer: SBVC
Drainage area: 
Sheet number: 

Work order: SMH14-GOING EAST
Start date/time: 2015/09/30 09:34
Street: K STREET
City: SAN BENARDINO

Location details: 
Upstream manhole No: SMH14

Downstream manhole No: GOING EAST
Rim to invert: 
Grade to invert: 
Rim to grade:

Width: C
Shape: PVC
Ln. method: 
Pipe joint length: 

Purpose: G
Sewer category: N
Pre-cleaning: 1
Date cleaned: Z
Weather:
Location code:

Additional info: THIS MANHOLE IS BUIRED CANNOT CCTV THIS VIDEO IS JUST FOR REFERENCE

Starting access point: 
Easting: 
Northing: 
Elevation: 
Coordinate system: 
GPS accuracy: 

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### PACP Sewer Report

**Surveyed by:** R.ZIEGLER  
**Certificate No.:** U-815-07001103  
**Owner:** SBVC  
**Survey Customer:** SBVC  
**Drainage area:**  
**City:** SAN BENARDINO  
**Work order:** SMH44-SMH43  
**Start date/time:** 2015/09/30 09:45  
**Street:** NEAR THE CUSTODIAL STORAGE AREA  
**Upstream manhole No:** SMH44  
**Location details:**  
**Downstream manhole No:** SMH43  
**Rim to invert:**  
**Grade to invert:**  
**Rim to grade:**  
**Width:**  
**Shape:** C  
**Material:** PVC  
**Ln. method:**  
**Pipe joint length:**  
**Total length:** 0.0  
**Length surveyed:** 0.0  
**Year laid:**  
**Year renewed:**  
**Media label:**  
**Purpose:**  
**Sewer category:** G  
**Pre-cleaning:** N  
**Date cleaned:** 1  
**Weather:**  
**Location code:** G  
**Additional info:** NOT CCTV'ED DUE TO NOT HAVING ACCESS REFFER TO VIDEO SMH16-SMH44 THIS VIDEO IS JUST A REFERENCE SECTION A-18  

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**Easting:**  
**Northing:**  
**Elevation:**  
**Coordinate system:**  
**GPS accuracy:**  

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PACP Sewer Report

Surveyed by: R.ZIEGLER  
Certificate No: U-815-07001103  
Owner: SBVC

Survey Customer: SBVC  
Drainage area:  
Sheet number:  

City: SAN BENARDINO  
Street: NEAR THE CUSTODIAL STORAGE AREA

Start date/time: 2015/09/30 09:54  
Location details: CUSTODIAL STORAGE AREA

Upstream manhole No: SMH43

Downstream manhole No: SMH42

Rim to invert: SMH43

Grade to invert: 0.0  
Rim to grade: 0.0  
Sewer use: SS  
Direction: U  
Flow control: N  
Height: 8

Rim to invert: SMH42

Grade to invert: 0.0  
Rim to grade: 0.0  
Sewer use:  
Direction:  
Flow control:  
Height:  

Width: C  
Shape: PVC  
Material:  
Ln. method:  
Pipe joint length:  
Additional info: THIS LINE WAS NOT CCTV'ED DUE TO NOT HAVING ACCESS THIS IS SECTION A-17 THIS VIDEO IS JUST FOR REFERENCE

Purpose: Sewer category: Pre-cleaning Date cleaned: Weather: Location code: G N 1 G

Starting access point:

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### PACP Sewer Report

**Surveyed by:** R.ZIEGLER  
**Certificate No.:** U-815-07001103  
**Owner:** SBVC  
**Survey Customer:** SBVC

**City:** SAN BENARDINO  
**Street:** NEAR THE CUSTODIAL STORAGE AREA

**Work order:**  
**Pipeline segment ref:** SMH42-SMH19  
**Start date/time:** 2015/09/30 10:00

**Location details:** CUSTODIAL STORAGE AREA

**Downstream manhole No.:** SMH19  
**Rim to invert:** 0.0  
**Grade to invert:** 0.0

**Width:**  
**Shape:** C  
**Material:** PVC  
**Ln. method:**  
**Pipe joint length:**  
**Purpose:**  
**Sewer category:**  
**Pre-cleaning:** N  
**Date cleaned:** 1  
**Weather:** G  
**Location code:**

**Additional info:** THIS LINE WAS NOT CCTV'ED THIS VIDEO IS JUST FOR REFERENCE PLEASE REFER BACK TO VIDEO SMH16-SMH44 THERE WAS NO ACCESS TO THIS MH SECTION A-17

**Starting access point:**

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### PACP Sewer Report

**Surveyed by:** R.ZIEGLER  
**Certificate No:** U-815-07001103  
**Owner:** SBVC  
**Survey Customer:** SBVC

**City:** SAN BERNARDINO  
**Street:** NEAR THE CUSTODIAL STORAGE AREA  
**Upstream manhole No:** SMH19

**Location details:** CUSTODIAL STORAGE AREA

**Downstream manhole No:** SMH19  
**Rim to invert:** 0.0

**Width:** 8  
**Shape:** C  
**Material:** PVC

**Purpose:** Sewer category: G  
Pre-cleaning: N  
Date cleaned: 1  
Weather:  
Location code: 1

**Additional info:** THIS LINE WAS NOT CCTV'ED DUE TO NOT HAVING ACCESS. THIS VIDEO IS JUST FOR REFERENCE SECTION A-15

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**Surveyed by:** R. Ziegler  
**Owner:** SBVC  
**Start date/time:** 2015/09/30  
**Upstream manhole No:** SMH19  
**Pipeline segment ref:** SMH19-SMH18  

This line was not CCTVed due to not having access. This video is just for reference. Section A-15.
### PACP Sewer Report

**City:** SAN BENARDINO  
**Street:** NEAR THE CHILD DEVELOPMENT AREA  
**Work order:** SMH41-LATERAL GOING NORTH  
**Start date/time:** 2015/09/30 10:20  
**Location details:** NEAR THE CHILD DEVELOPMENT AREA

#### Downstream manhole No:
- **Name:** SMH41
- **Purpose:** LATERAL GOING NORTH
- **Material:** PVC
- **Shape:** C
- **Width:** 0.0
- **Pipe joint length:** 0.0
- **Total length:** 0.0
- **Length surveyed:** 0.0
- **Year laid:**
- **Year renewed:**
- **Media label:**
- **Additional info:** THIS LINE WAS NOT CCTV'ED DUE TO NOT HAVING ACCESS. THIS VIDEO IS JUST FOR REFERENCE

#### Starting access point:
- **Easting:**
- **Northing:**
- **Elevation:**
- **Coordinate system:**
- **GPS accuracy:**

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**Certificate No:** U-815-07001103  
**Owner:** SBVC  
**Survey Customer:** SBVC  
**Direction:** N

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**Additional Information:**
- **Purpose:** Pre-cleaning
- **Date cleaned:** 1
- **Weather:**
- **Location code:** J

---

**Surveyed by:** R.ZIEGLER

---

**Date cleaned:** 10:20

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**Starting access point:**
- **Easting:**
- **Northing:**
- **Elevation:**
- **Coordinate system:**
- **GPS accuracy:**

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**Sheet number:**

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**Friday, February 12, 2016 2:47 PM**
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**Remarks:**
- **USMH MH41 GOING NORTH. THIS LINE WAS NOT CCTV'ED DUE TO NOT HAVING ACCESS. THIS VIDEO IS JUST FOR REFERENCE.**
- **THIS LINE WAS NOT CCTV'ED DUE TO NOT HAVING ACCESS. THIS VIDEO IS JUST FOR REFERENCE.**
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National Plant Services, Inc.  
1461 Harbor Avenue  
Long Beach, Ca. 90813  
Office: 562-436-7600  

Surveyed by: R.ZIEGLER  
Owner: SBVC  
Start date/time: 2015/09/30  
Upstream manhole No: SMH34  
Pipeline segment ref: SMH34-SMH33  
Sheet number: 

PACP Sewer Report Friday, February 12, 2016 2:47 PM  
Page 2 of 2
## PACP Sewer Report

**Surveyed by:** R.ZIEGLER  
**Certificate No.:** U-815-07001103  
**Owner:** SBVC  
**Survey Customer:** SBVC  
**Drainage area:**  
**City:** SAN BENARDINO  
**Street:** EAST PARKING LOT FOR MEDIA/COMMUNICATIONS  
**Work order:**  
**Pipeline segment ref:** SMH33-SMH32  
**Start date/time:** 2015/09/30 10:44  
**Location details:** EAST PARKING LOT FOR MEDIA/COMMUNICATIONS  
**Upstream manhole No.:** SMH33  
**Downstream manhole No.:** SMH32  
**Purpose:** Pre-cleaning  
**Sewer category:** G  
**Shape:** C  
**Material:** PVC  
**Ln. method:**  
**Pipe joint length:**  
**Width:**  
**Rim to invert:**  
**Grade to invert:**  
**Rim to grade:**  
**Grade to invert:**  
**Rim to grade:**  
**Total length:** 0.0  
**Length surveyed:** 0.0  
**Year laid:**  
**Year renewed:**  
**Sewer use:** SS  
**Direction:** U  
**Flow control:** N  
**Height:** 8  
**Flow control:**  
**Media label:**  
**Location code:** G  
**Location details:**  
**Additional info:** THIS LINE WAS NOT CCTV'ED DUE TO NOT HAVING ACCESS. THIS VIDEO IS JUST FOR REFERENCE. SECTION B-9  
**Starting access point:**  
**Easting:**  
**Northing:**  
**Elevation:**  
**Coordinate system:**  
**GPS accuracy:**  

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PACP Sewer Report

Surveyed by: R.ZIEGLER
Certificate No: U-815-07001103
Owner: SBVC
Survey Customer: SBVC
Drainage area: 
Sheet number: 

Work order: SMH32-GOING NORTH TO A CLEAN OUT
Start date/time: 2015/09/30 10:51
Street: NEAR LIBERAL ARTS BUILDING
City: SAN BENARDINO

Location details:
Upstream manhole No: SMH32
Rim to invert:
Grade to invert:
Rim to grade:

Downstream manhole No: GOING NORTH TO A CLEAN OUT
Rim to invert:
Grade to invert:
Rim to grade:

Width: 
Shape: 
Material: PVC
Ln. method: 
Pipe joint length: 
Total length: 
Length surveyed: 
Year laid: 
Year renewed: 
Media label: 

Purpose: 
Sewer category: N
Pre-cleaning: 
Date cleaned: 
Weather: 
Location code:
Additional info: THIS LINE WAS NOT CCTV'ED DUE TO NOT HAVING ACCESS. THIS VIDEO IS JUST FOR REFERENCE. SECTION B-8

Starting access point:
Easting: 
Northing: 
Elevation: 
Coordinate system: 
GPS accuracy: 

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R.ZIEGLER

### Owner:
SBVC

### Start date/time:
2015/09/30

### Upstream manhole No:
SMH32

### Pipeline segment ref:
SMH32-GOING NORTHTO A CLEAN OUT

### Sheet number:

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### Distance (Feet) (Meters) | Video Ref. | Group/ Descriptor | Modifier/ Severity | Continuous Defect | S/A/L | Value | Inches (mm) | % | Joint | Circumferential Location | Image Ref. | Family | Rating | Remarks
---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---
0.0 | 32 | AMH | | | | | | | | | | | SAN BERNARDINO VALLEY COLLEGE-SMH3 2-GOING NORTHTO A CLEAN OUT AMH at 0.0 ft (U).jpg | | | | THIS LINE WAS NOT CCTVED DUE TO NOT HAVING ACCESS. THIS VIDEO IS JUST FOR REFERENCE. SECTION B-8
0.0 | 54 | MWL | | | | | 0 | | | | | | SAN BERNARDINO VALLEY COLLEGE-SMH3 2-GOING NORTHTO A CLEAN OUT MWL at 0.0 ft (U).jpg | | | | THIS LINE WAS NOT CCTVED DUE TO NOT HAVING ACCESS. THIS VIDEO IS JUST FOR REFERENCE. SECTION B-8
0.0 | 85 | MSA | | | | | | | | | | | | | | THIS LINE WAS NOT CCTVED DUE TO NOT HAVING ACCESS. THIS VIDEO IS JUST FOR REFERENCE. SECTION B-8
## PACP Sewer Report

**Surveyed by:** R.ZIEGLER  
**Certificate No.:** U-815-07001103  
**Owner:** SBVC  
**Survey Customer:** SBVC  
**Drainage area:**  
**Sheet number:**  

**Work order:**  
**Pipeline segment ref.:** SMH27-SMH28  
**Start date/time:** 2015/09/30 10:57  
**Location details:**  
**City:** SAN BENARDINO  
**Street:** GRANT AVE NEAR AUTOPARTS STORE  
**Upstream manhole No.:** SMH27  
**Rim to invert:**  
**Grade to invert:**  
**Rim to grade:**  

**Downstream manhole No.:** SMH28  
**Rim to invert:**  
**Grade to invert:**  
**Rim to grade:**  

**Purpose:** Pre-cleaning  
**Sewer category:**  
**Date cleaned:** 1  
**Weather:** N  
**Location code:** D  
**Additional info:** THIS LINE WAS NOT CCTV'ED DUE TO NOT HAVING ACCESS. THIS VIDEO IS JUST FOR REFERENCE. SECTION B-4. THE ROAD HAD A LOCKED CHAIN ACROSS THE ROAD  

**Starting access point:**  

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**Sheet number:** 1  
**Starting access point:**  
**Easting:**  
**Northing:**  
**Elevation:**  
**Coordinate system:**  
**GPS accuracy:**  

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National Plant Services, Inc.  
1461 Harbor Avenue  
Long Beach, Ca. 90813  
Office: 562-436-7600

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PACP Sewer Report  
Friday, February 12, 2016 2:47 PM  
Page 1 of 3
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### Surveyed by:
R. Ziegler

### Certificate No.:
U-815-07001103

### Owner:
SBVC

### Survey Customer:
SBVC

### City:
San Bernardino

### Work order:
SMH29-SMH45

### Start date/time:
2015/09/30 11:09

### Street:
Grant Ave

### Direction:
D

### Flow control:
N

### Total length:
0.0

### Year laid:

### Year renewed:

### Material:
PVC

### Purpose:
Pre-cleaning

### Start date/time:
11:09

### Rim to invert:
D

### Rim to invert:
N

### Additional info:
THIS LINE WAS NOT CCTV’ED DUE TO NOT HAVING ACCESS. THIS VIDEO IS JUST FOR REFERENCE SECTION B-6

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### PACP Sewer Report

**Surveyed by:** R.ZIEGLER  
**Certificate No.:** U-815-07001103  
**Owner:** SBVC  
**Survey Customer:** SBVC  
**Pipe segment ref.:** SMH27-SMH26  
**Start date/time:** 2015/09/30 11:17  
**City:** SAN BERNARDINO  
**Location details:** ALLEY OF AUTO PARTS STORE  
**Upstream manhole No.:** SMH27  
**Rim to invert:**  
**Grade to invert:**  
**Rim to grade:**  
**Flow control:** SS  
**Direction:** U  
**Height:** N  
**Width:** 0.0  
**Shape:** C  
**Material:** PVC  
**Ln. method:**  
**Pipe joint length:** 0.0  
**Pipe Segment Grade:**  
**Structural Rating:**  
**Structural Pipe Quick Rating:**  
**Structural Pipe Rating Index:**  
**Amount of O&M Defects:**  
**O&M Segment Grade:**  
**O&M Quick Rating:**  
**O&M Pipe Rating Index:**  
**Overall Quick Rating:**  
**Overall Pipe Rating Index:**  
**Pre-cleaning:** G  
**Sewer category:** N  
**Date cleaned:** 1  
**Location code:** D  
**Additional info:** THIS LINE WAS NOT CCTV'ED DUE TO NOT HAVING ACCESS. THIS VIDEO IS JUST FOR REFERENCE, LOCKED CHAIN PREVENTING ACCESS, LOCKED CHAIN PREVENTING US TO GET ACCESS TO MH.SECTION B-2

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**PACP Sewer Report**

**Surveyed by:** R.ZIEGLER  
**Certificate No:** U-815-07001103  
**Owner:** SBVC  
**Survey Customer:** SBVC  
**City:** SAN BERNARDINO  
**Street:** GRANT AVE NEAR AUTO PARTS STORE  
**Width:**  
**Upstream manhole No:** SMH26  
**Height:**  
**Pipe joint length:**  
**Total length:**  
**Sewer use:**  
**Location code:**  
**Pre-cleaning:**  
**Purpose:**  
**Sewer category:** G  
**Additional info:** THIS LINE WAS NOT CCTV'ED DUE TO NOT HAVING ACCESS. THIS VIDEO IS JUST FOR REFERENCE, LOCKED CHAIN PREVENTING ACCESS. SECTION B-2. SMH25 IS BURIED

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### Surveyed by:
R.ZIEGLER

### Owner:
SBVC

### Start date/time:
2015/09/30

### Upstream manhole No:
SMH26

### Pipeline segment ref:
SMH26-SMH25

### Sheet number:

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### PACP Sewer Report

**Surveys by:** R.ZIEGLER  
**Certificate No.:** U-815-07001103  
**Owner:** SBVC  
**Survey Customer:** SBVC  
**Drainage area:**  
**City:** SAN BERNARDINO  
**Street:** GRANT AVE NEAR BUSINESS BUILDING  
**Location code:** F  
**Start date/time:** 2015/09/30 11:30  
**Rim to invert:** 0.0  
**Grade to invert:** 0.0  
**Total length:**  
**Length surveyed:**  
**Year laid:**  
**Year renewed:**  
**Media label:**  
**Purpose:** NEAR BUSINESS BUILDING ON CAMPUS  
**Downstream manhole No.:** SMH26  
**Upstream manhole No.:** SMH25  
**Rim to invert:**  
**Grade to invert:**  
**Sewer use:** SS  
**Direction:** U  
**Flow control:** N  
**Height:** 6  
**Additional info:** THIS LINE WAS NOT CCTV'ED DUE TO NOT HAVING ACCESS ON CAMPUS. THIS VIDEO IS JUST FOR REFERENCE. SECTION B-1

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</table>
## PACP Sewer Report

**Surveyed by:** R.ZIEGLER  
**Certificate No.:** U-815-07001103  
**Owner:** SBVC  
**Survey Customer:** SBVC  
**Drainage area:**  
**Sheet number:**  

**Work order:** SMH25-GOING NORTH TOWARD L.ARTS  
**Start date/time:** 2015/09/30 11:40  
**Street:** GRANT AVE NEAR BUSINESS BUILDING  
**City:** SAN BERNARDINO  

**Location details:** ON CAMPUS NEAR BUSINESS BUILDING  
**Upstream manhole No.:** SMH25  
**Rim to invert:**  
**Grade to invert:** SS  
**Rim to grade:** U  
**Grade to grade:** N  
**Height:** 6  

**Width:**  
**Shape:**  
**Material:** PVC  
**Ln. method:**  
**Pipe joint length:**  
**Total length:** 0.0  
**Length surveyed:** 0.0  
**Year laid:**  
**Year renewed:**  
**Media label:**  

**Purpose:** G  
**Sewer category:** N  
**Pre-cleaning:**  
**Date cleaned:** 1  
**Weather:** F  
**Location code:**  
**Additional info:** THIS LINE WAS NOT CCTV'ED DUE TO NOT HAVING ACCESS. THIS VIDEO IS JUST FOR REFERENCE, ON CAMPUS BETWEEN TWO BUILDINGS. SECTION B-1  

**Starting access point:**  
**Easting:**  
**Northing:**  
**Elevation:**  
**Coordinate system:**  
**GPS accuracy:**  

### Starting access point

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<th>Structural Rating</th>
<th>Structural Pipe Rating</th>
<th>Structural Pipe Rating Index</th>
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Surveyed by: R.ZIEGLER
Owner: SBVC
Start date/time: 2015/09/30
Upstream manhole No: SMH25
Pipeline segment ref: SMH25-GOING NORTH TOWARD L.ARTS
Sheet number: 

National Plant Services, Inc.
1461 Harbor Avenue
Long Beach, Ca. 90813
Office: 562-436-7600

PACP Sewer Report
Friday, February 12, 2016 2:47 PM
Surveyed by: R.ZIEGLER  
Owner: SBVC  
Start date/time: 2015/09/30  
Upstream manhole No: SMH25  
Pipeline segment ref: SMH25-GOING NORTH TOWARDS THE LIBERAL ARTS BUILDING.

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<td>USMH SMH25-GOING NORTH TOWARDS THE LIBERAL ARTS BUILDING. THIS LINE WAS NOT CCTV'ED DUE TO NOT HAVING ACCESS, ON CAMPUS BETWEEN TWO BUILDINGS. THIS VIDEO IS JUST FOR REFERENCE. SECTION B-1</td>
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National Plant Services, Inc.  
1461 Harbor Avenue  
Long Beach, Ca. 90813  
Office: 562-436-7600
Main Inspection with Pipe-Run and Scoring

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<th>Pipeline segment ref:</th>
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<th>Street:</th>
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<tbody>
<tr>
<td>CRAFTON HILLS COLLEGE</td>
<td>MH13-MH14</td>
<td>YUCAIPA</td>
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Diagram:
```
MH13
\|--\------------------\--\--MH14
```

Weather: sunny, temperature 70 degrees F, humidity 40%
## Main Inspection with Pipe-Run and Scoring

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Diagram:

MH14 to MH15 — Start length 0.0
**Main Inspection with Pipe-Run and Scoring**

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![Diagram of MH15 to MH16](attachment:image.jpg)
**Main Inspection with Pipe-Run and Scoring**

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MH16

MH17

Arrow length: 0.0
Main Inspection with Pipe-Run and Scoring

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<tr>
<td>CRAFTON HILLS COLLEGE</td>
<td>MH18A-MH20</td>
<td>YUCAIPA</td>
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Diagram:

![Diagram showing pipeline segments MH18A and MH20]
Main Inspection with Pipe-Run and Scoring

- **Project Name:** CRAFTON HILLS COLLEGE
- **Pipeline segment ref:** MH20-MH21
- **City:** YUCAIPA
- **Street:** ON CAMPUS
- **Start date/time:** Thursday, October 15, 2015 8:40 AM
- **Width:** 6
- **Height:**
- **Material:** PVC
- **Location code:** F
- **Direction:** Downstream
- **Length surveyed:** 1
- **Weather:**
- **Media label:** A

Diagram:

```
    MH20
      v
       v
MH21
```

Above length 0.0
Main Inspection with Pipe-Run and Scoring

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<td>CRAFTON HILLS COLLEGE</td>
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<td>YUCAIPA</td>
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Weather:

- Media label: A
- System: small
downstream: 0.0

MH21

MH22
Main Inspection with Pipe-Run and Scoring

Project Name: CRAFTON HILLS COLLEGE
Pipeline segment ref: MH20-MH23
City: YUCAIPA
Street: ON CAMPUS

Start date/time: 
Width: 8
Height: 
Material: PVC
Location code: F

Direction: Downstream
Length surveyed: 1
Weather: 
Media label: A

Assist length: 0.0

MH20

MH23
# Main Inspection with Pipe-Run and Scoring

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![Diagram of pipeline segments MH20 to MH24]
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Diagram: A horizontal line with two segments, MH24 and MH25, indicating the pipeline segment ref. The line is labeled "0.0 MH24 MH25."
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Main Inspection with Pipe-Run and Scoring

MH25

MH26
Main Inspection with Pipe-Run and Scoring

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MH26

MH27

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Areal length 0.0
# Main Inspection with Pipe-Run and Scoring

**Project Name:** CRAFTON HILLS COLLEGE  
**Pipeline segment ref:** MH28-MH29  
**City:** YUCAIPA  
**Street:** ON CAMPUS

**Start date/time:**  
**Width:** 8  
**Height:**  
**Material:** PVC  
**Location code:** F  
**Direction:** Downstream  
**Length surveyed:** 1  
**Weather:**  
**Media label:**

---

MH28 MH29

---

---
Main Inspection with Pipe-Run and Scoring

Project Name: CRAFTON HILLS COLLEGE
Pipeline segment ref: MH2-MH1
City: YUCAIPA
Street: CAMPUS DRIVE

Start date/time: 9/29/2015
Width: 8
Height: 8
Material: RCP
Location code: C
Direction: Downstream
Length surveyed: 301.3
Weather: 1
Media label: 0.0 ft

At 0.0 ft
START WITH FLOW - Start Inspection With the Flow
AMH - Manhole
USMH MH2

At 72.8 ft
S01: SRPZ - Surface Reinforcement
Projecting Unknown
Category: Structural
APPEARS THAT THE WALL OF THE PIPE IS ERRODED WHERE THE REBAR IS PROJECTING A LITTLE NOT EXPOSED BUT CAN TELL THE REBAR IS THERE

At 81.3 ft
S02: SRPZ - Surface Reinforcement
Projecting Unknown
Category: Structural
APPEARS THAT THE REBAR IS PROJECTING A LITTLE BUT NOT SHOWING THE PIPE WALL IS ERRODED

At 140.9 ft
F01: SRPZ - Surface Reinforcement
Projecting Unknown
Category: Structural
REBAR PROJECT CONTINOUS END

At 158.4 ft
S03: SRIZ - Surface Roughness Increased
Unknown
Category: Structural
APPEARS THAT THE TOP HALF OF THE PIPE IS ERRODED AND PROJECTING CEMENT

At 212.3 ft
F03: SRIZ - Surface Roughness Increased
Unknown
Category: Structural
CONTINOUS ENDED

At 260.0 ft
B - Broken
Category: Structural
THE PIPE IS BROKEN BUT IT APPEARS THAT IS HAS BEEN PATCHED FROM THE OUTSIDE

At 273.2 ft
B - Broken
Category: Structural
APPEARS THAT THE PIPE IS BROKEN OR A TAP WAS GOING TO BE PUT IN PLACE BUT WAS NOT THERE IS NO VOID OR SOIL BEHIND THE BROKEN PART OF THE PIPE BUT DOES HAVE A PATCH OF SOME SORT

At 301.3 ft
STOP - Inspection stopped
### Main Inspection with Pipe-Run and Scoring

**Project Name:** CRAFTON HILLS COLLEGE  
**Pipeline segment ref:** MH2-MH3  
**City:** YUCAIPA  
**Street:** CAMPUS DRIVE

**Start date/time:** 9/29/2015  
**Width:** 8  
**Height:**  
**Material:** RCP  
**Location code:** C

**Direction:** UPSTREAM  
**Length surveyed:** 200.9  
**Weather:**  
**Media label:**

---

![Diagram](attachment:image.png)

- **At 200.9 ft:** Inspection stopped  
- **At 200.9 ft:** AMH - Manhole  
  DSMH MH3 AGAINST THE FLOW  
- **At 0.0 ft:** MWM - Water Mark  
- **At 0.0 ft:** MWL - Water Level  
- **At 0.0 ft:** AMH - Manhole  
  USMH MH2  
- **At 0.0 ft:** START AGAINST FLOW - Start Inspection Against the Flow
Main Inspection with Pipe-Run and Scoring

Project Name: CRAFTON HILLS COLLEGE
Pipeline segment ref: MH3-MH4
City: YUCAIPA
Street: CAMPUS DRIVE

Start date/time: 9/29/2015
Width: 8
Height: 8
Material: RCP
Location code: C
Direction: UPSTREAM
Length surveyed: 305.7
Weather: 1
Media label:

STOP - Inspection stopped
AMH - Manhole
DSMH MH4 AGAINST THE FLOW
TBA - Tap Break-in Active
MWM - Water Mark
Category: O&M

START AGAINST FLOW - Start Inspection Against the Flow

START AGAINST FLOW - Start Inspection Against the Flow
# Main Inspection with Pipe-Run and Scoring

<table>
<thead>
<tr>
<th>Project Name:</th>
<th>Pipeline segment ref:</th>
<th>City:</th>
<th>Street:</th>
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<tbody>
<tr>
<td>CRAFTON HILLS COLLEGE</td>
<td>MH10-MH9</td>
<td>YUCAIPA</td>
<td>CAMPUS DR</td>
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<th>Weather:</th>
<th>Media label:</th>
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</thead>
<tbody>
<tr>
<td>Downstream</td>
<td>273.1</td>
<td></td>
<td></td>
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</tbody>
</table>

---

**At 0.0 ft**
- **AMH - Manhole**
- **USMH MH10**

**At 0.0 ft**
- **MWL - Water Level**
- **MWM - Water Mark**

**At 39.1 ft 4/5**
- **CM - Crack Multiple**
  - Category: Structural

**At 119.6 ft 9./**
- **CL - Crack Longitudinal**
  - Category: Structural

**At 149.8 ft 9./**
- **S01: CL - Crack Longitudinal**
  - Category: Structural

**At 153.9 ft 9./**
- **F01: CL - Crack Longitudinal**
  - Category: Structural

**END CONTINUOUS**

**At 273.1 ft**
- **AMH - Manhole**
- **DSMH MH9**

**STOP - Inspection stopped**

---

### Pipeline Map

- MH10
  - At 0.0 ft: Start with flow - Start Inspection With the Flow
  - At 0.0 ft: AMH - Manhole
  - At 0.0 ft: USMH MH10
  - At 39.1 ft 4/5: CM - Crack Multiple
    - Category: Structural
  - At 119.6 ft 9./: CL - Crack Longitudinal
    - Category: Structural
  - At 149.8 ft 9./: S01: CL - Crack Longitudinal
    - Category: Structural
  - At 153.9 ft 9./: F01: CL - Crack Longitudinal
    - Category: Structural
  - END CONTINUOUS
  - At 273.1 ft: AMH - Manhole
  - DSMH MH9
  - STOP - Inspection stopped
Main Inspection with Pipe-Run and Scoring

- Project Name: CRAFTON HILLS COLLEGE
- Pipeline segment ref: MH9-MH8
- City: YUCAIPA
- Street: CAMPUS DRIVE
- Start date/time: 9/29/2015
- Width: 8
- Height: 1
- Material: RCP
- Location code: C
- Direction: Downstream
- Length surveyed: 184.8
- Weather: 
- Media label:

At 0.0 ft
START WITH FLOW - Start Inspection With the Flow
AMH - Manhole
USMH MH9
MWM - Water Mark
Category: O&M

At 39.8 ft
OBZ - Obstacle Other
WASTE PAPER CAUSING THE WATER LEVEL TO RISE
Category: O&M

At 42.0 ft
S01: MWLS - Water Level Sag
Category: Structural

At 44.1 ft
S02: MCU - Camera Underwater
Category: O&M

At 47.1 ft
F02: MCU - Camera Underwater
Category: O&M
END OF CONTINUOUS

At 52.1 ft
F01: MWLS - Water Level Sag
Category: Structural

At 184.8 ft
TFA - Tap Factory Active
ADP - Discharge Point
WE ARE ABOUT 5-10 FEET AWAY FROM A DISCHARGE POINT CANNOT TELL WHAT IT IS DUE TO THE LATERAL THAT IS AT THE 6 O'CLOCK POSITION

At 184.8 ft
STOP - Inspection stopped
Main Inspection with Pipe-Run and Scoring

<table>
<thead>
<tr>
<th>Project Name:</th>
<th>Pipeline segment ref:</th>
<th>City:</th>
<th>Street:</th>
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</thead>
<tbody>
<tr>
<td>CRAFTON HILLS COLLEGE</td>
<td>MH10-MH11</td>
<td>YUCAIPA</td>
<td>CAMPUS DRIVE</td>
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<tr>
<td>Start date/time:</td>
<td>Width:</td>
<td>Height:</td>
<td>Material:</td>
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<td>RCP</td>
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<td>Direction:</td>
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<tr>
<td>UPSTREAM</td>
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</table>

```
At 244.4 ft
STOP - Inspection stopped

At 0.0 ft
MWM - Water Mark
Category: O&M

At 0.0 ft
MWL - Water Level

At 0.0 ft
AMH - Manhole
USMH MH10

At 0.0 ft
START AGAINST FLOW - Start Inspection Against the Flow
```

At 10.3 ft 7/5
S01: SAP - Surface Aggregate Projecting
Category: Structural

At 46.0 ft 7/4
F01: SAP - Surface Aggregate Projecting
Category: Structural

At 244.4 ft
AMH - Manhole
DSMH MH11
Main Inspection with Pipe-Run and Scoring

Project Name: CRAFTON HILLS COLLEGE
Pipeline segment ref: MH31-MH32
City: YUCAIPA
Street: CRAFTON HILLS MATIENCE ROAD

Start date/time: 9/29/2015
Width: 8
Height: 128.6
Material: PVC
Location code: C
Direction: UPSTREAM
Length surveyed: 128.6
Weather:
Media label:

At 128.6 ft
MSA - Abandoned Survey
THE SIZE CHANGE PREVENTS THE CRAWLER FROM GOING ANY FURTHER INTO THE PIPE IT APPEARS THAT MH32 IS GOING TO BE A CLEAN OUT WHICH IS BURIED AND CANNOT LOCATE TO DO A REVERSE

At 128.1 ft
MSC - Shape or Size Change

At 0.0 ft
MWM - Water Mark
Category: O&M

At 0.0 ft
MWL - Water Level

At 0.0 ft
AMH - Manhole
USMH MH31

START AGAINST FLOW - Start Inspection Against the Flow
Main Inspection with Pipe-Run and Scoring

Project Name: CRAFTON HILLS COLLEGE  
Pipeline segment ref: MH31-MH30  
City: YUCAIPA  
Street: MATIENCE ROAD  

Start date/time: 9/29/2015  
Width: 8  
Height:  
Material: PVC  
Location code: C

Direction: Downstream  
Length surveyed: 162.9

Weather:  
Media label: 

MH31

At 0.0 ft
START WITH FLOW - Start Inspection With the Flow
MH31

At 0.0 ft
AMH - Manhole

USMH MH31

At 0.0 ft
MWL - Water Level

MH31

At 0.0 ft
MWM - Water Mark
Category: O&M

S01: MWLS - Water Level Sag
Category: Structural

At 128.6 ft

F01: MWLS - Water Level Sag
Category: Structural

162.9 ft

MH30

At 162.9 ft
AMH - Manhole

DSMH MH30

At 162.9 ft
STOP - Inspection stopped

Access length: 162.9 ft  
Survey length: 162.9 ft

100.0 ft

100.0 ft
Main Inspection with Pipe-Run and Scoring

Project Name: CRAFTON HILLS COLLEGE
Pipeline segment ref: MH30-MH29
City: YUCAIPA
Street: CRAFTON HILLS MATIENCE ROAD

Start date/time: 9/29/2015
Width: 8
Height: 8
Material: PVC
Location code: C
Direction: Downstream
Length surveyed: 266.9

Weather: 
Media label: 

At 0.0 ft
START WITH FLOW - Start Inspection With the Flow
AMH - Manhole USMH MH30
MHWL - Water Level
MWM - Water Mark
Category: O&M

At 266.9 ft
AMH - Manhole DSMH MH29
STOP - Inspection stopped
Main Inspection with Pipe-Run and Scoring

Project Name: CRAFTON HILLS COLLEGE
Pipeline segment ref: MH32-MH31
City: YUCAIPA
Street: CRAFTOM HILLS MATIENCE ROAD

Start date/time: 9/30/2015
Width: 8
Height: 8
Material: PVC
Location code: C

Direction: Downstream
Length surveyed: 0.0
Weather: Media label: A

- At 0.0 ft START WITH FLOW - Start Inspection With the Flow
- At 0.0 ft AMH - Manhole
- USMH MH32 CANNOT LOCATE THE MANHOLE/CLEAN OUT I BELIEVE THAT IT IS BURIED PLEASE REFER TO THE VIDEO OF SECTION MH31-MH32
- At 0.0 ft MWL - Water Level
- CANNOT LOCATE THE MANHOLE/CLEAN OUT I BELIEVE THAT IT IS BURIED PLEASE REFER TO THE VIDEO OF SECTION MH31-MH32
- At 0.0 ft MSA - Abandoned Survey
- CANNOT LOCATE THE MANHOLE/CLEAN OUT I BELIEVE THAT IT IS BURIED PLEASE REFER TO THE VIDEO OF SECTION MH31-MH32 AND ADDITIONAL NOTES IN THE MAIN INSPECTION SHEET
## Main Inspection with Pipe-Run and Scoring

<table>
<thead>
<tr>
<th>Project Name:</th>
<th>Pipeline segment ref:</th>
<th>City:</th>
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<tbody>
<tr>
<td>CRAFTON HILLS COLLEGE</td>
<td>MH8-MH7</td>
<td>YUCAIPA</td>
<td>CAMPUS DRIVE</td>
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<tr>
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<th>Length surveyed:</th>
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</thead>
<tbody>
<tr>
<td>Downstream</td>
<td>298.0</td>
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</table>

### Inspection Details

- **At 0.0 ft**: START WITH FLOW - Start Inspection With the Flow
- **At 0.0 ft**: AMH - Manhole
- **At 0.0 ft**: USMH MH8
- **At 0.0 ft**: MWL - Water Level
- **At 0.0 ft**: MWM - Water Mark

**Category: O&M**

- **At 173.1 ft 9/3**: S01: SRI - Surface Roughness Increased
- **At 250.7 ft 9/3**: F01: SRI - Surface Roughness Increased

**Category: Structural**

- **At 298.0 ft**: AMH - Manhole

**END OF CONTINUOUS**
# Main Inspection with Pipe-Run and Scoring

<table>
<thead>
<tr>
<th>Project Name:</th>
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<th>City:</th>
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<tbody>
<tr>
<td>CRAFTON HILLS COLLEGE</td>
<td>MH7-MH6</td>
<td>YUCAIPA</td>
<td>CAMPUS DRIVE</td>
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<th>Location code:</th>
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<tr>
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<tbody>
<tr>
<td>Downstream</td>
<td>251.6 ft</td>
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</table>

- **At 0.0 ft**: START WITH FLOW - Start Inspection With the Flow
- **At 109.4 ft**: S01: SRI - Surface Roughness Increased
  - Category: Structural
- **At 127.3 ft**: F01: SRI - Surface Roughness Increased
  - Category: Structural
- **At 286.1 ft**: STOP - Inspection stopped
- **At 251.8 ft**: AMH - Manhole
  - DSMH MH6
<table>
<thead>
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<th>Project Name:</th>
<th>Pipeline segment ref:</th>
<th>City:</th>
<th>Street:</th>
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<tbody>
<tr>
<td>CRAFTON HILLS COLLEGE</td>
<td>MH6-MH5</td>
<td>YUCAIPA</td>
<td>CAMPUS DRIVE</td>
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<tbody>
<tr>
<td>Downstream</td>
<td>325.1</td>
<td>1</td>
<td></td>
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---

1. **At 0.0 ft**
   - START WITH FLOW - Start Inspection With the Flow
   - AMH - Manhole
   - USMH MH6

2. **At 180.2 ft**
   - SZ - Surface Other
   - APPEARS THAT THE SURFACE OF THE PIPE HAS SOME DAMAGE

3. **At 299.0 ft**
   - RPZ - Repair Other
   - CONCRETE PATCH REBAR EXPOSED

4. **At 325.1 ft**
   - AMH - Manhole
   - DSMH MH5

---

Stop: Inspection stopped
Main Inspection with Pipe-Run and Scoring

Project Name: CRAFTON HILLS COLLEGE
Pipeline segment ref: MH5-MH4A
City: YUCAIPA
Street: CAMPUS DRIVE

Start date/time: 10/3/2015
Width: 8
Height: 8
Material: RCP
Location code: C
Direction: Downstream
Length surveyed: 40.9

Weather: 1
Media label: 0.0 ft

---

At 0.0 ft
START WITH FLOW - Start Inspection With the Flow

At 0.0 ft
AMH - Manhole
USMH MH5

At 7.5 ft
S01: SRI - Surface Roughness Increased
Category: Structural

At 15.7 ft
F01: SRI - Surface Roughness Increased
Category: Structural

At 19.4 ft
TF - Tap Factory

At 20.8 ft
S02: SSS - Surface Spalling
Category: Structural

At 40.3 ft
F02: SSS - Surface Spalling
Category: Structural

At 40.9 ft
AMH - Manhole
UNCHARTED DSMH MH4A

At 40.9 ft
STOP - Inspection stopped
Main Inspection with Pipe-Run and Scoring

Project Name: CRAFTON HILLS COLLEGE
Pipeline segment ref: MH4A-MH4B
City: YUCAIPA
Street: CAMPUS DRIVE AND EMERAL VIEW
Start date/time: 10/3/2015
Width: 8
Height: 8
Material: RCP
Location code: C
Direction: Downstream
Length surveyed: 26.2
Weather: 1
Media label: 10.0 ft

At 0.0 ft
START WITH FLOW - Start Inspection With the Flow
AMH - Manhole
UNCHARTED MANHOLE USMH MH4A

At 0.0 ft
MWL - Water Level
MWM - Water Mark
Category: O&M

At 26.2 ft
AMH - Manhole
UNCHARTED DSMH MH4B

At 26.2 ft
STOP - Inspection stopped

Assel length: 26.2 ft
Survey length: 26.2 ft
Main Inspection with Pipe-Run and Scoring

<table>
<thead>
<tr>
<th>Project Name:</th>
<th>Pipeline segment ref:</th>
<th>Street:</th>
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<tbody>
<tr>
<td>CRAFTON HILLS COLLEGE</td>
<td>MH4B-MH4</td>
<td>CAMPUS DRIVE AND EMERAL VIEW</td>
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<td>10/3/2015</td>
<td>8</td>
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<td>RCP</td>
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</table>

Direction: Downstream

Length surveyed: 187.5 ft

Weather: 1

As of 10:00 ft

Stop - Inspection stopped

At 187.5 ft

AMH - Manhole

DSMH MH4

At 0.0 ft

START WITH FLOW - Start Inspection With the Flow

AMH - Manhole

UNCHARTED MANHOLE USMH MH4B

At 0.0 ft

MWL - Water Level

At 0.0 ft

MWM - Water Mark

Category: O&M

At 100.0 ft

Access length: 187.5 ft
Survey length: 107.5 ft
Main Inspection with Pipe-Run and Scoring

**Project Name:** CRAFTON HILLS COLLEGE  
**Pipeline segment ref:** MH12-MH13  
**City:** YUCAIPA  
**Street:** PARKING LOT B

**Start date/time:** 10/3/2015  
**Width:** 8  
**Height:**  
**Material:** RCP  
**Location code:** G

**Direction:** UPSTREAM  
**Length surveyed:** 114.0  
**Weather:**  
**Media label:** 1

---

At 0.0 ft
- MWM - Water Mark
  - Category: O&M
  - DIRT, GRAVEL

At 0.0 ft
- MWL - Water Level

At 8.2 ft
- TB - Tap Break-in

At 114.0 ft
- STOP - Inspection stopped
  - ACOM - Cleanout Mainline

REACHED OUR DSMH WHICH IS A CLEAN OUT MH13

At 112.6 ft
- DSF - Deposits Settled Fine
  - Category: O&M
  - DIRT, GRAVEL

At 114.0 ft
- STOP - Inspection stopped

---

Thursday, October 15, 2015 8:40 AM
**Main Inspection with Pipe-Run and Scoring**

<table>
<thead>
<tr>
<th>Project Name:</th>
<th>Pipeline segment ref:</th>
<th>City:</th>
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<tbody>
<tr>
<td>CRAFTON HILLS COLLEGE</td>
<td>MH12-MH6</td>
<td>YUCAIPA</td>
<td>PARKING LOT B</td>
</tr>
</tbody>
</table>

- **Start date/time:** 10/3/2015
- **Width:** 8
- **Height:** 8
- **Material:** RCP
- **Location code:** G
- **Direction:** Downstream
- **Length surveyed:** 303.7
- **Weather:**
- **Media label:**

**Notes:***
- At 0.0 ft
  - START WITH FLOW - Start Inspection With the Flow
- At 0.0 ft
  - AMH - Manhole
  - USMH MH12
- At 0.0 ft
  - MWL - Water Level
- At 0.0 ft
  - MWM - Water Mark
  - Category: O&M
- At 188.2 ft 10/
  - CL - Crack Longitudinal
  - Category: Structural
- At 303.7 ft
  - AMH - Manhole
  - DSMH MH6
- At 303.7 ft
  - STOP - Inspection stopped
Main Inspection with Pipe-Run and Scoring

- **Project Name:** CRAFTON HILLS COLLEGE
- **Pipeline segment ref:** MH8-MH18
- **City:** YUCAIPA
- **Street:** CAMPUS DRIVE-PARKING LOT D
- **Start date/time:** 10/3/2015
- **Width:** 8
- **Height:**
- **Material:** RCP
- **Location code:** C
- **Direction:** UPSTREAM
- **Length surveyed:** 212.2
- **Weather:** 1
- **Media label:**

**Issues Encountered:**

- **At 212.2 ft:** STOP - Inspection stopped
- **At 212.2 ft:** AMH - Manhole DSMH MH18
- **At 202.2 ft:** F01: SRI - Surface Roughness Increased
  - Category: Structural
- **At 189.5 ft:** F02: MWLS - Water Level Sag
  - Category: Structural
- **At 124.8 ft:** S02: MWLS - Water Level Sag
  - Category: Structural
- **At 16.1 ft:** S01: SRI - Surface Roughness Increased
  - Category: Structural
- **At 0.0 ft:** MWM - Water Mark
  - Category: O&M
- **At 0.0 ft:** MWL - Water Level
- **At 0.0 ft:** AMH - Manhole DSMH MH8
- **At 0.0 ft:** START AGAINST FLOW - Start Inspection Against the Flow
Main Inspection with Pipe-Run and Scoring

- **Project Name:** CRAFTON HILLS COLLEGE
- **Pipeline segment ref:** MH18-MH19
- **City:** YUCAIPA
- **Street:** PARKING LOT D
- **Start date/time:** 10/3/2015
- **Width:** 8
- **Height:** 1
- **Material:** CP
- **Location code:** G
- **Direction:** UPSTREAM
- **Length surveyed:** 267.6
- **Weather:** Media label: 100.0 ft

**Incidents**:
- **At 267.6 ft:** STOP - Inspection stopped
- **At 267.6 ft:** AMH - Manhole DSMH MH19
- **At 226.0 ft:** F01: SRI - Surface Roughness Increased
- **Category:** Structural
- **At 201.4 ft:** S01: SRI - Surface Roughness Increased
- **Category:** Structural
- **At 187.0 ft:** MMC - Material Change
  - PVC TO CONCRETE PIPE
- **At 185.3 ft:** TFA - Tap Factory Active
- **At 183.6 ft:** MMC - Material Change
  - CONCRETE PIPE TO PVC
- **At 180.6 ft:** TBA - Tap Break-in Active
- **At 176.8 ft:** TBB - Tap Break-in Abandoned
- **At 0.0 ft:** MWM - Water Mark
  - Category: O&M
- **At 0.0 ft:** MWL - Water Level
- **At 0.0 ft:** AMH - Manhole
  - DSMH MH19
- **At 0.0 ft:** START AGAINST FLOW - Start Inspection Against the Flow
Main Inspection with Pipe-Run Graph

Project Name: CRAFTON HILLS COLLEGE
Pipeline segment ref: MH2-MH1
City: YUCAIPA
Street: CAMPUS DRIVE

Start date/time: 9/29/2015
Direction: Downstream
Length surveyed: 301.3
Surveyed by: R. ZIEGLER

Width: 8
Height: 9
Material: RCP
Location code: C
Weather: R

Category: O&M
At 0.0 ft
START WITH FLOW - Start Inspection With the Flow
AMH - Manhole
SMH MH2

At 72.8 ft
S01: SRPZ - Surface Reinforcement Projecting Unknown Category: Structural
APPEARS THAT THE WALL OF THE PIPE IS ERRODED WHERE THE REBAR IS PROJECTING A LITTLE NOT EXPOSED BUT CAN TELL THE REBAR IS THERE

At 81.3 ft
S02: SRPZ - Surface Reinforcement Projecting Unknown Category: Structural
APPEARS THAT THE REBAR IS PROJECTING A LITTLE BUT NOT SHOWING THE PIPE WALL IS ERRODED

At 140.9 ft
F01: SRPZ - Surface Reinforcement Projecting Unknown Category: Structural

At 158.4 ft
S03: SRIZ - Surface Roughness Increased Unknown Category: Structural
APPEARS THAT THE TOP HALF OF THE PIPE IS ERRODED AND PROJECTING CEMENT

At 260.0 ft
F03: SRIZ - Surface Roughness Increased Unknown Category: Structural
THE PIPE IS BROKEN BUT IT APPEARS THAT IS HAS BEEN PATCHED FROM THE OUTSIDE

At 273.2 ft
B - Broken Category: Structural
APPEARS THAT THE PIPE IS BROKEN OR A TAP WAS GOING TO BE PUT IN PLACE BUT WAS NOT THERE IS NO VOID OR SOIL BEHIND THE BROKEN PART OF THE PIPE BUT DOES HAVE A PATCH OF SOME SORT

At 301.3 ft
AMH - Manhole DSMH MH1
STOP - Inspection stopped

Additional info:

MH2
MH1

CAMPUS DRIVE
9/29/2015
1:03 PM
Main Inspection with Pipe-Run Graph

<table>
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<th>Pipeline segment ref:</th>
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<td>CRAFTON HILLS COLLEGE</td>
<td>MH2-MH3</td>
<td>YUCAIPA</td>
<td>CAMPUS DRIVE</td>
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<tbody>
<tr>
<td>UPSTREAM</td>
<td>200.9</td>
<td>R.ZIEGLER</td>
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At 0.0 ft
- MWM - Water Mark
- AMH - Manhole
- USMH MH2
- START AGAINST FLOW - Start Inspection Against the Flow

At 100.0 ft
- MH2

At 200.0 ft
- AMH - Manhole
- DSMH MH3 AGAINST THE FLOW
- STOP - Inspection stopped

At 200.9 ft
- AMH - Manhole

Width: 8
Height: 8
Material: RCP
Length surveyed: 200.9
Surveyed by: R.ZIEGLER

Additional info:

CAMPUS DRIVE
9/29/2015
R.ZIEGLER

Thursday, April 28, 2016 1:03 PM
Main Inspection with Pipe-Run Graph

Project Name: CRAFTON HILLS COLLEGE
Pipeline segment ref: MH3-MH4
City: YUCAIPA
Street: CAMPUS DRIVE

Start date/time: 9/29/2015
Direction: UPSTREAM
Length surveyed: 305.7
Surveyed by: R.ZIEGLER

Width: 8
Height: 8
Material: RCP
Location code: C
Weather: 1

MH3

At 0.0 ft
AMH - Manhole
USMH MH3

At 0.5 ft
MWM - Water Mark
Category: O&M

At 11.0 ft
TBA - Tap Break-in Active

At 305.7 ft
STOP - Inspection stopped
AMH - Manhole
DSMH MH4 AGAINST THE FLOW

MH4

At 0.0 ft
AMH - Manhole
USMH MH4

At 0.0 ft
MWL - Water Level

START AGAINST FLOW - Start Inspection Against the Flow

Additional info:

Category: O&M
Additional info:

Width: 8
Height: 8
Material: RCP
Location code: C
Weather: 1

Surveyed by: R.ZIEGLER

At 0.0 ft
AMH - Manhole
USMH MH3

At 0.5 ft
MWM - Water Mark
Category: O&M

At 11.0 ft
TBA - Tap Break-in Active

At 305.7 ft
STOP - Inspection stopped
AMH - Manhole
DSMH MH4 AGAINST THE FLOW

MH4

At 0.0 ft
AMH - Manhole
USMH MH4

At 0.0 ft
MWL - Water Level

START AGAINST FLOW - Start Inspection Against the Flow

Additional info:

Width: 8
Height: 8
Material: RCP
Location code: C
Weather: 1

Surveyed by: R.ZIEGLER

At 0.0 ft
AMH - Manhole
USMH MH3

At 0.5 ft
MWM - Water Mark
Category: O&M

At 11.0 ft
TBA - Tap Break-in Active

At 305.7 ft
STOP - Inspection stopped
AMH - Manhole
DSMH MH4 AGAINST THE FLOW

MH4

At 0.0 ft
AMH - Manhole
USMH MH4

At 0.0 ft
MWL - Water Level

START AGAINST FLOW - Start Inspection Against the Flow

Additional info:
Main Inspection with Pipe-Run Graph

Project Name: CRAFTON HILLS COLLEGE
Pipeline segment ref: MH10-MH9
City: YUCAIPA
Street: CAMPUS DR

Start date/time: 9/29/2015
Width: 8
Material: RCP
Location code: C
Weather: 1

Direction: Downstream
Length surveyed: 273.1
Surveyed by: R.ZIEGLER

At 0.0 ft
START WITH FLOW - Start Inspection With the Flow

At 10.0 ft
AMH - Manhole
USMH MH10

At 59.1 ft
MWL - Water Level

At 119.6 ft
MWM - Water Mark
Category: O&M

At 39.1 ft
CM - Crack Multiple
Category: Structural

At 149.8 ft
S01: CL - Crack Longitudinal
Category: Structural

At 153.9 ft
F01: CL - Crack Longitudinal
Category: Structural

END CONTINOUS

At 273.1 ft
AMH - Manhole
DSMH MH9

STOP - Inspection stopped
### Main Inspection with Pipe-Run Graph

**Project Name:** CRAFTON HILLS COLLEGE  
**Pipeline segment ref:** MH9-MH8  
**City:** YUCAIPA  
**Street:** CAMPUS DRIVE

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**Start date/time:** 9/29/2015  
**Length surveyed:** 184.8

**Surveyed by:** R.ZIEGLER

**Direction:** Downstream

### Observations

- **At 0.0 ft:** START WITH FLOW - Start Inspection With the Flow
- **At 10.0 ft:** AMH - Manhole USMH MH9
- **At 10.0 ft:** MWL - Water Level
- **At 10.0 ft:** MWM - Water Mark
- **At 39.8 ft 6.3:** OBZ - Obstacle Other Category: O&M WASTE PAPER CASUSING THE WATER LEVEL TO RISE
- **At 42.0 ft:** MWLS - Water Level Sag Category: Structural
- **At 44.1 ft:** MCU - Camera Underwater Category: O&M
- **At 47.1 ft:** MCU - Camera Underwater Category: O&M END OF CONTINUOUS
- **At 52.1 ft:** MWLS - Water Level Sag Category: Structural
- **At 184.2 ft 6.3:** TFA - Tap Factory Active
- **At 184.8 ft:** ADP - Discharge Point WE ARE ABOUT 5-10 FEET AWAY FROM A DISCHARGE POINT CANNOT TELL WHAT IT IS DUE TO THE LATERAL THAT IS AT THE 6 O'CLOCK POSITION
- **At 184.8 ft:** STOP - Inspection stopped

**Width:** 8  
**Height:** 8  
**Material:** RCP  
**Start date/time:** 9/29/2015  
**Length surveyed:** 184.8  
**Surveyed by:** R.ZIEGLER  
**Weather:** 1

**Project Name:** CRAFTON HILLS COLLEGE  
**City:** YUCAIPA  
**Street:** CAMPUS DRIVE  
**Start date/time:** 9/29/2015  
**Length surveyed:** 184.8  
**Surveyed by:** R.ZIEGLER  
**Weather:** 1

**Additional info:**

- **Start date/time:** 9/29/2015
- **Length surveyed:** 184.8
- **Surveyed by:** R.ZIEGLER
- **Weather:** 1
### Main Inspection with Pipe-Run Graph

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<tr>
<td>UPSTREAM</td>
<td>244.4 ft</td>
<td>R.ZIEGLER</td>
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#### MH10
- At 0.0 ft
  - MWM - Water Mark
  - Category: O&M
- At 0.0 ft
  - MWL - Water Level
- At 0.0 ft
  - AMH - Manhole
  - USMH MH10
- Start AGAINST FLOW - Start Inspection Against the Flow

- At 46.0 ft
  - F01: SAP - Surface Aggregate Projecting
  - Category: Structural
- At 10.3 ft
  - S01: SAP - Surface Aggregate Projecting
  - Category: Structural

#### MH11
- At 244.4 ft
  - STOP - Inspection stopped
  - AMH - Manhole
  - DSMH MH11

---

**Additional Details:**
- **Project Name:** CRAFTON HILLS COLLEGE
- **Pipeline segment ref:** MH10-MH11
- **City:** YUCAIPA
- **Street:** CAMPUS DRIVE
- **Start date/time:** 9/29/2015
- **Width:** 8
- **Height:** 8
- **Material:** RCP
- **Location code:** C
- **Weather:** R.ZIEGLER
- **Surveyed by:** R.ZIEGLER
- **Start date/time:** 9/29/2015
- **Start date/time:** 1:03 PM
Main Inspection with Pipe-Run Graph

Project Name: CRAFTON HILLS COLLEGE
Pipeline segment ref: MH31-MH32
City: YUCAIPA
Street: CRAFTON HILLS MATIENCE ROAD

Start date/time: 9/29/2015
Length surveyed: 128.6
Surveyed by: R.ZIEGLER

Width: 8
Height: 8
Material: PVC
Location code: C
Weather: 1

At 0.0 ft
AMH - Manhole
USMH MH31
At 0.0 ft
MWL - Water Level

At 0.0 ft
MWM - Water Mark
Category: O&M

At 128.6 ft
MSA - Abandoned Survey
THE SIZE CHANE PREVENTS THE CRAWLER FROM GOING ANY FURTHER INTO THE PIPE IT APPEARS THAT MH32 IS GOING TO BE A CLEAN OUT WHICH IS BUIRED AND CANNOT LOCATE TO DO A REVERSE

At 128.1 ft
MSC - Shape or Size Change

At 0.0 ft
START AGAINST FLOW - Start Inspection Against the Flow

Width: 8
Height: 8
Material: PVC
Location code: C
Weather: 1

Additional info:

Main Inspection with Pipe-Run Thursday, April 28, 2016 1:03 PM
Main Inspection with Pipe-Run Graph

Project Name: CRAFTON HILLS COLLEGE
Pipeline segment ref: MH31-MH30
City: YUCAIPA
Street: MATIENCE ROAD

Start date/time: 9/29/2015
Length surveyed: 162.9 ft
Surveyed by: R.ZIEGLER

Width: 8 ft
Material: PVC
Location code: C
Weather: 1
Direction: Downstream

100.0 ft
MH31

At 0.0 ft
START WITH FLOW - Start Inspection With the Flow

At 0.0 ft
AMH - Manhole
USMH MH31

At 0.0 ft
MWL - Water Level
MWM - Water Mark
Category: O&M

At 28.6 ft
S01: MWLS - Water Level Sag
Category: Structural

At 44.6 ft
F01: MWLS - Water Level Sag
Category: Structural

At 162.9 ft
AMH - Manhole
DSMH MH30
STOP - Inspection stopped

Additional info:

Page of 1
Main Inspection with Pipe-Run
Thursday, April 28, 2016 1:03 PM
Main Inspection with Pipe-Run Graph

<table>
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<tr>
<th>Project Name:</th>
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<td>Downstream</td>
<td>0.0</td>
<td>R.ZIEGLER</td>
<td>MH32 IS BURIED NOT ABLE TO LOCATE POSSIBLE A C/O FROM VIDEO MH31-MH32</td>
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</table>

- At 0.0 ft START WITH FLOW - Start Inspection With the Flow
- At 0.0 ft AMH - Manhole UNABLE TO LOCATE MH32 REFER TO NOTES AND VIDEO OF SECTION 31-32
- At 0.0 ft MWL - Water Level PLEASE REFER TO NOTES AND VIDEO OF SECTION 31-32
- At 0.0 ft MSA - Abandoned Survey PLEASE REFER TO NOTES AND VIDEO SECTION OF 31-32
Main Inspection with Pipe-Run Graph

Project Name: CRAFTON HILLS COLLEGE
Pipeline segment ref: MH30-MH29
City: YUCAIPA
Street: CRAFTON HILLS MATIENCE ROAD

Start date/time: 9/29/2015
Width: 8
Material: PVC
Location code: C
Weather: 1

Direction: Downstream
Length surveyed: 266.9
Surveyed by: R.ZIEGLER

Additional info:

At 0.0 ft
START WITH FLOW - Start Inspection With the Flow
A MH - Manhole
USMH MH30

At 100.0 ft
MWL - Water Level

At 200.0 ft
MWM - Water Mark
Category: O&M

At 266.9 ft
AMH - Manhole
DSMH MH29
STOP - Inspection stopped
### PACP Sewer Report

**Surveyed by:** R.ZIELGER  
**Certificate No.:** U-815-07001103  
**Owner:** CRAFTON HILLS COLLEGE  
**Survey Customer:** ITF  
**Drainage area:**  
**Sheet number:**  

**City:** YUCAIPA  
**Street:** CAMPUS DRIVE  
**Work order:**  
**Pipeline segment ref:** MH2-MH1  
**Start date/time:** 2015/09/29 07:42  
**Location details:**  
**Upstream manhole No:** MH2  
**Rim to invert:**  
**Grade to invert:** SS  
**Grade to grade:**  
**Rim to grade:** D  
**Downstream manhole No:** MH1  
**Width:** C  
**Shape:** RCP  
**Material:**  
**Ln. method:**  
**Pipe joint length:**  
**Total length:** 301.3  
**Length surveyed:** 301.3  
**Year laid:**  
**Year renewed:**  
**Media label:**  
**Sewer use:**  
**Direction:** D  
**Flow control:** N  
**Height:** 8  
**Purpose:** G  
**Sewer category:** N  
**Pre-cleaning:** I  
**Date cleaned:** C  
**Weather:**  
**Location code:**  
**Additional info:**  

**Starting access point:**  
**Easting:**  
**Northing:**  
**Elevation:**  
**Coordinate system:**  
**GPS accuracy:**  

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<th>Amount of O&amp;M Defects</th>
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<th>Structural Pipe Rating</th>
<th>Structural Pipe Rating Index</th>
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<th>O&amp;M Pipe Rating</th>
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**Starting access point:**

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Appears that the wall of the pipe is eroded where the rebar is projecting a little not exposed but can tell the rebar is there.

Appears that the rebar is projecting a little but not showing the pipe wall is eroded.

Rebar project continuous end.
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<th>Group/Descriptor</th>
<th>Modifier/Severity</th>
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<th>Value</th>
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<th>Circumferential Location</th>
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### PACP Sewer Report

**Surveyed by:** R.ZIEGLER
**Certificate No.:** U-815-07001103
**Owner:** CRAFTON HILLS COLLEGE

**Survey Customer:** ITF
**Drainage area:**

**City:** YUCAIPA
**Street:** CAMPUS DRIVE

**Downstream manhole No.:** MH3

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**Upstream manhole No.:** MH2

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**Additional info:**

**Width:** C
**Shape:** RCP
**Material:**
**Ln. method:**
**Pipe joint length:**
**Total length:** 200.9
**Length surveyed:** 200.9
**Grade to invert:** SS
**Rim to invert:** U
**Grade to grade:** N
**Rim to grade:** 8
**Sewer use:**
**Direction:** U
**Flow control:** N
**Year laid:**
**Year renewed:**
**Media label:**

**Purpose:** G
**Sewer category:** N
**Pre-cleaning:**
**Date cleaned:**

**Starting access point:**

**Certification No.:** U-815-07001103
**Pipeline segment ref.:** MH2-MH3

**Owner:** CRAFTON HILLS COLLEGE

**Surveyed by:** R.ZIEGLER
**Address:**
1461 Harbor Avenue
Long Beach, Ca. 90813
Office: 562-436-7600

**National Plant Services, Inc.**

**Thursday, April 28, 2016 1:02 PM**

**Page 1 of 2**
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Surveyed by: R. ZIEGLER  
Owner: CRAFTON HILLS COLLEGE  
Start date/time: 2015/09/29  
Upstream manhole No: MH2  
Pipeline segment ref: MH2-MH3  
Sheet number:  

PACP Sewer Report  
Thursday, April 28, 2016 1:02 PM
### PACP Sewer Report

**Surveyed by:** R.ZIEGLER  
**Certificate No.:** U-815-07001103  
**Owner:** CRAFTON HILLS COLLEGE  
**Survey Customer:** ITF  
**Drainage area:**  
**City:** YUCAIPA  
**City:** YUCAIPA  

**Work order:**  
**Pipeline segment ref:** MH3-MH4  
**Start date/time:** 09:17  
**Street:** CAMPUS DRIVE  
**Location details:**  
**Upstream manhole No.:** MH3  
**Rim to invert:**  
**Grade to invert:**  
**Grade to grade:**  
**Downstream manhole No.:**  
**Rim to invert:**  
**Material:**  
**Shape:**  
**Ln. method:**  
**Pipe joint length:**  
**Width:**  
**Total length:** 305.7  
**Length surveyed:** 305.7  
**Year laid:**  
**Year renewed:**  
**Media label:**  
**Purpose:**  
**Sewer category:**  
**Pre-cleaning:**  
**Date cleaned:**  
**Weather:**  
**Location code:**  
**Additional info:**  
**Starting access point:**  
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### PACP Sewer Report

**Surveyed by:** R.ZIEGLER  
**Certificate No.:** U-815-07001103  
**Owner:** CRAFTON HILLS COLLEGE  
**Survey Customer:** ITF  
**Drainage area:**  
**Sheet number:**  
**City:** YUCAIPA

**Work order:**  
**Pipeline segment ref:** MH10-MH9  
**Start date/time:** 2015/09/29 10:23  
**Street:** CAMPUS DR  
**Location details:** CAMPUS DRIVE SEGMENT 10-9  
**Upstream manhole No:** MH10  
**Rim to invert:**  
**Grade to invert:** SS  
**Grade to grade:** D  
**Rim to grade:** N  
**Weather:**  
**Location code:**  
**Additional info:**

**Material:** C  
**Ln. method:** RCP  
**Pipe joint length:**  
**Total length:** 273.1  
**Length surveyed:** 273.1  
**Year laid:**  
**Year renewed:**  
**Media label:**  
**Width:**  
**Shape:**  
**Purpose:** G  
**Sewer category:** N  
**Pre-cleaning:**  
**Date cleaned:** 1  
**Coordinate system:**  
**GPS accuracy:**  

**Starting access point:**

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Surveyed by: R.ZIEGLER
Owner: CRAFTON HILLS COLLEGE
Start date/time: 2015/09/29
Upstream manhole No: MH10
Pipeline segment ref: MH10-MH9
Sheet number:
City: YUCAIPA
Street: CAMPUS DRIVE

Work order: MH9-MH8
Start date/time: 2015/09/29 10:52

Location details:
CAMPUS DRIVE SECTION 9-8

Downstream manhole No: MH9
Rim to invert:
Grade to invert: SS
Rim to grade: D

Material: RCP
Ln. method: C
Width: 8
Shape: G
Purpose: N
Pre-cleaning: G
Date cleaned: 1
Weather: G
Location code: C

Additional info:

Starting access point:
Easting: 1
Northing: G
Elevation: 0
Coordinate system: 0
GPS accuracy: 0

Surveyed by: R.ZIEGLER
Certificate No: U-815-07001103
Owner: CRAFTON HILLS COLLEGE
Survey Customer: ITF
Drainage area:
Sheet number:

Location code:

Year laid: 184.8
Year renewed: 184.8
Media label: 8

Total length:
Length surveyed:

Grade to invert:
Rim to grade:
Sewer use: D
Direction: N
Flow control: G
Height: N

Structural Pipe Rating Index:
Overall Pipe Rating Index:
Overall Pipe Rating:

Structural Pipe Rating:
O&M Pipe Rating:

Starting access point:

YUCAIPA
CAMPUS DRIVE

Start date/time:
10:52

PACP Sewer Report
Thursday, April 28, 2016 1:02 PM
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WE ARE ABOUT 5-10 FEET AWAY FROM A DISCHARGE POINT CANNOT TELL WHAT IT IS DUE TO THE LATERAL THAT IS AT THE 6 O'CLOCK POSITION

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### PACP Sewer Report

**Surveyed by:** R.ZIEGLER  
**Certificate No.:** U-815-07001103  
**Owner:** CRAFTON HILLS COLLEGE  
**Survey Customer:** ITF  
**Drainage area:**  
**Sheet number:**  

**City:** YUCAIPA  
**Street:** CAMPUS DRIVE  
**Width:**  
**Upstream manhole No.:**  
**Height:**  
**Pipe joint length:**  
**Total length:**  
**Sewer use:**  
**Location code:**  

**Location details:** CAMPUS DRIVE SECTION 10-11  
**Downstream manhole No.:**  
**Rim to invert:**  
**Grade to invert:**  
**Rim to grade:**  
**Grade to grade:**  
**Total length:** 244.4  
**Length surveyed:** 244.4  
**Year laid:**  
**Year renewed:**  
**Media label:**  

**Purpose:**  
**Sewer category:**  
**Pre-cleaning:**  
**Date cleaned:**  
**Weather:**  
**Location code:**  
**Additional info:**  

**Starting access point:**  
**Easting:**  
**Northing:**  
**Elevation:**  
**Coordinate system:**  
**GPS accuracy:**  

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<th>Structural Segment Grade</th>
<th>Structural Pipe/Structural Quick Rating</th>
<th>Structural Pipe Rating Index</th>
<th>Amount of O&amp;M Defects</th>
<th>O&amp;M Segment Grade</th>
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**Certificate No.:** U-815-07001103  
**Pipeline segment ref:** MH10-MH11  
**Start date/time:** 2015/09/29 12:21  
**Rim to invert:** U  
**Grade to invert:** G  
**Direction:** C  
**Flow control:** RCP  
**Year renewed:**  
**Media label:**  

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**Sheet number:**  
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**Coordinate system:**  
**GPS accuracy:**  

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**Starting access point:**  
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**Starting access point:**  
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**Starting access point:**  
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**Starting access point:**  
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**Starting access point:**  
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**GPS accuracy:**

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**Starting access point:**  
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**GPS accuracy:**

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**Starting access point:**  
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**GPS accuracy:**

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**Starting access point:**  
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## PACP Sewer Report

### Surveyed by:
R. ZIEGLER

### Certificate No:
U-815-07001103

### Owner:
CRAFTON HILLS COLLEGE

### Survey Customer:
ITF

### Drainage area:

### City:
YUCAIPA

### Work order:
MH31-MH32

### Start date/time:
2015/09/29 13:05

### Street:
CRAFTON HILLS MATIENCE ROAD

### Downstream manhole No:
MH31

### Rim to invert:

### Grade to invert:

### Rim to grade:

### Downstream manhole No:
MH32

### Rim to invert:

### Grade to invert:

### Rim to grade:

### Purpose:
G

### Sewer category:
N

### Pre-cleaning:
1

### Date cleaned:
C

### Weather:

### Location code:

### Additional info:

### Starting access point:

### Easting:

### Northing:

### Elevation:

### Coordinate system:

### GPS accuracy:

### Width:

### Shape:
C

### Material:
PVC

### Ln. method:

### Pipe joint length:

### Total length:
128.6

### Length surveyed:
128.6

### Year laid:

### Year renewed:

### Media label:

### Survey Customer:
CRAFTON HILLS COLLEGE

### Date cleaned:

### Ronal to invert:

### Grade:

### Structural Pipe Quick Rating:

### Structural Pipe Rating Index:

### Structural Pipe Segment Grade:

### Amount of O&M Defects:

### O&M Segment Grade:

### O&M Quick Rating:

### O&M Pipe Rating Index:

### O&M Pipe Rating:

### Overall Pipe Rating:

### Overall Pipe Rating Index:

### Pipe joint length:

### Grade to invert:

### Structural Quick Rating:

### Structural Pipe Rating:

### O&M Pipe Rating:

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**THE SIZE CHANGE PREVENTS THE CRAWLER FROM GOING ANY FURTHER INTO THE PIPE IT APPEARS THAT MH32 IS GOING TO BE A CLEAN OUT WHICH IS BURIED AND CANNOT LOCATE TO DO A REVERSE**
## PACP Sewer Report

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<th>Certificate No:</th>
<th>Owner:</th>
<th>Survey Customer:</th>
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<th>Sheet number:</th>
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<td>CRAFTON HILLS COLLEGE</td>
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Certificate No: U-815-07001103

Pipeline segment ref: MH31-MH30

Owner: CRAFTON HILLS COLLEGE

Starting access point: (Easting, Northing, Elevation, Coordinate system, GPS accuracy)

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## PACP Sewer Report

### Surveyed by:
- R.ZIEGLER

### Certificate No.:
- U-815-07001103

### Owner:
- CRAFTON HILLS COLLEGE

### Survey Customer:
- ITF

### Drainage area:

### Sheet number:

### Work order:
- MH32-MH31

### Start date/time:
- 2015/09/29 13:53

### Street:
- CRAFTOM HILLS MATIENCE ROAD

### City:
- YUCAIPA

### Location details:
- CRAFTON HILLS MATIENCE ROAD

### Downstream manhole No.:
- MH32

### Rim to invert:
- MH31

### Rim to grade:
- G

### Material:
- PVC

### Ln. method:
- C

### Pipe joint length:
- 0.0

### Total length:
- 0.0

### Length surveyed:
- 0.0

### Year laid:
- 0.0

### Year renewed:
- 0.0

### Location code:
- I

### Weather:
- C

### Rim to invert:
- N

### Grade to invert:
- SS

### Rim to grade:
- D

### Sewer use:
- D

### Direction:
- N

### Flow control:
- 8

### Height:

### Media label:

### Purpose:
- G

### Sewer category:
- N

### Pre-cleaning:
- 1

### Date cleaned:
- C

### Additional info:
- MH32 IS BURIED NOT ABLE TO LOCATE POSSIBLE A C/O FROM VIDEO MH31-MH32

### Starting access point:

#### Easting:

#### Northing:

#### Elevation:

#### Coordinate system:

#### GPS accuracy:

### Grade Summary:

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### PACP Sewer Report

**Surveyed by:** R.ZIEGLER  
**Certificate No.:** U-815-07001103  
**Owner:** CRAFTON HILLS COLLEGE  
**Survey Customer:** ITF  
**Drainage area:**  
**Sheet number:**  

**Work order:** MH30-MH29  
**Start date/time:** 2015/09/29 14:11  
**Street:** CRAFTON HILLS MATIENCE ROAD  
**City:** YUCAIPA  

**Location details:** CRAFTON HILLS MATIENCE ROAD  
**Upstream manhole No.:** MH30  
**Rim to invert:**  
**Grade to invert:**  
**Rim to grade:**  

**Downstream manhole No.:** MH29  
**Rim to invert:**  
**Grade to invert:** SS  
**Rim to grade:** D  
**Grade to grade:** N  
**Height:** 8  

**Width:**  
**Shape:** C  
**Material:** PVC  
**Ln. method:**  
**Pipe joint length:**  
**Total length:** 266.9  
**Length surveyed:** 266.9  
**Year laid:**  
**Year renewed:**  
**Media label:**  

**Purpose:** G  
**Sewer category:** N  
**Pre-cleaning:**  
**Date cleaned:** 1  
**Weather:**  
**Location code:** I  
**Additional info:**  

**Starting access point:**  
**Easting:**  
**Northing:**  
**Elevation:**  
**Coordinate system:**  
**GPS accuracy:**  

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1. CALL TO ORDER – PLEDGE OF ALLEGIANCE

2. ANNOUNCEMENT OF CLOSED SESSION ITEMS
   a. Conference with Labor Negotiators – Government Code 54957.6
      Agency Negotiators: Bruce Baron and Karl Sparks – CSEA, CTA
   b. Public Employee Performance Evaluation, Government Code 54957
      Title: Chancellor
      Code 54957 and Education Code 87678 (2 cases)

3. PUBLIC COMMENTS ON CLOSED SESSION ITEMS
   The San Bernardino Community College Board of Trustees offers an opportunity for the public to address the Board on any agenda item prior to or during the Board’s consideration of that item. Matters not appearing on the agenda will be heard after the board has heard all action agenda items. Comments must be limited to five (5) minutes per speaker and twenty (20) minutes per topic if there is more than one speaker. At the conclusion of public comment, the Board may ask staff to review a matter or may ask that a matter be put on a future agenda. As a matter of law, members of the Board may not discuss or take action on matters raised during public comment unless the matters are properly noticed for discussion or action in Open Session.

   Anyone who requires a disability-related modification or accommodation in order to participate in the public meeting should contact the Chancellor’s Office at (909) 382-4091 as far in advance of the Board meeting as possible.

   This is an opportunity for members of the public to address the Board concerning closed session items.

4. CONVENE CLOSED SESSION

5. RECONVENE PUBLIC MEETING AT 5:00 pm

6. REPORT OF ACTION IN CLOSED SESSION (if any)

7. CONSIDERATION OF APPROVAL TO TELEVISE BOARD MEETINGS (p.5)

8. REPORTS
   Under Section 54954.2(a)(2) of the Brown Act, trustees are permitted to make a brief announcement or to make a brief report on his or her own activities. Reports from all groups are intended to be non-controversial and used for reporting on conferences, meetings, and other activities related to District business. No action will be taken.
   
   a. Board Members
      i. Oral Reports from Members of the Board Ad Hoc Committees
      ii. Board Information Requests (p.10)
   b. Student Trustees
   c. Chancellor
   d. SBVC
      i. President
      ii. Academic Senate
      iii. Classified Senate
      iv. Associated Students
AYES: Longville, Williams, Harrison, Ferracone, Singer, Viricel, Zoumbos, Machado, Rapouw
NOES: None
ABSENT: None
ABSTENTIONS: None

Consideration of Approval of Temporary Academic Employees
Trustee Harrison, Trustee Singer seconded the motion and the board members voted as follows:
To approve the temporary academic appointment of Jason Vandiver effective December 21, 2016 and Wendy McKeen effective August 12, 2016. **Correction to Wendy McKeen's salary. She is to be placed at Column F, Step 5, $65,385.57 per year.**

AYES: Longville, Williams, Harrison, Ferracone, Singer, Viricel, Zoumbos, Machado, Rapouw
NOES: None
ABSENT: None
ABSTENTIONS: None

Consideration of Approval to Adopt the Sewer System Management Plan (SSMP) for First Reading
Trustee Harrison, Trustee Singer seconded the motion and the board members voted as follows:
To approve the San Bernardino Community College District Sewer System Management Plan (SSMP) for first reading.

AYES: Longville, Williams, Harrison, Ferracone, Singer, Viricel, Zoumbos, Machado, Rapouw
NOES: None
ABSENT: None
ABSTENTIONS: None

Consideration of Approval to Amend Sabbatical Leave and Approve Resolution Waiving Posting of Bond by Faculty Member
Trustee Harrison, Trustee Singer seconded the motion and the board members voted as follows:
To approve amending the period of sabbatical leave previously granted to Kathryn Crow for the Fall 2016 semester so that she may take the leave during the Spring 2017 semester instead.

AYES: Longville, Williams, Harrison, Ferracone, Singer, Viricel, Zoumbos, Machado, Rapouw
NOES: None
ABSENT: None
ABSTENTIONS: None

Consideration of Approval of Professional Expert Short-Term and Substitute Employees
Trustee Harrison, Trustee Singer seconded the motion and the board members voted as follows:
To approve the employment of Professional Expert, Short-Term, and Substitute Employees.

AYES: Longville, Williams, Harrison, Ferracone, Singer, Viricel, Zoumbos, Machado, Rapouw
NOES: None
ABSENT: None
ABSTENTIONS: None

BUSINESS & FISCAL SERVICES
Consideration of Approval of Professional Services Contracts-Agreements
Trustee Harrison, Trustee Singer seconded the motion and the board members voted as follows:
To approve the list of Professional Services contracts/agreements.

AYES: Longville, Williams, Harrison, Ferracone, Singer, Viricel, Zoumbos, Machado, Rapouw
NOES: None
ABSENT: None
ABSTENTIONS: None

Consideration of Approval of Purchase Order Report
Trustee Harrison, Trustee Singer seconded the motion and the board members voted as follows:
To approve the list of purchase orders.

AYES: Longville, Williams, Harrison, Ferracone, Singer, Viricel, Zoumbos, Machado, Rapouw
NOES: None
ABSENT: None