



Caring for Our Coast

♦ ♦ ♦
Gary Jones
Director

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Chief Deputy Director

Carol Baker
Deputy Director

May 15, 2023

**ADDENDUM TWO
INVITATION FOR BIDS FOR
AS-NEEDED HAZARDOUS WASTE REMOVAL SERVICES
IFB #DBH79**

The Department of Beaches and Harbors issues Addendum Two to the As-Needed Hazardous Waste Removal Services Invitation for Bids IFB #DBH79, which was released on April 13, 2023.

As indicated in the IFB, Section 4.1, County's Right to Amend Invitation for Bids (IFB), the County reserves the right to amend the IFB by written addendum. Part One of this Addendum contains portions of the IFB that have been revised. Part Two of the Addendum contains the answers to the questions that were submitted prior to the deadline of April 27, 2023.

The information contained in this Addendum Two supersedes any related information previously provided.

Thank you for your interest in our Invitation for Bids for As-Needed Hazardous Waste Removal Services. As a reminder, bids must be emailed to Contracts@bh.lacounty.gov and must be received no later than 5:00 p.m. Pacific Standard Time on May 23, 2023.

We look forward to receiving your Bids.

Very truly yours,

GARY JONES, DIRECTOR

Angelica Vicente

Angelica Vicente, Contracts Administrator



PART ONE

The information hereunder, specific to the sections discussed below, supersedes any information previously provided as to those sections.

1. IFB Section 3, Bidder's Minimum Qualifications, Subsection 3.3 is deleted from the Invitation for Bids in its entirety and replaced with the following language:
 - 3.3 Bidder(s) must include verification of the following licenses with its bid. The name on the licenses must be Bidder's organization's name.
 - A valid Hazardous Materials Transportation License issued by the California Highway Patrol (CVC §32000.5);
 - A valid Hazardous Materials Certification of Registration issued by the Department of Transportation;
 - California Contractors State License Board license with hazmat designation; and
 - California Department of Toxic Substances Control Hazardous Waste Transporter Registration.
2. IFB Section 7.6, Bid Format and Review Process, Subsection 7.6.3.1, Bidder's Background and Experience is deleted from the Invitation for Bids in its entirety and replaced with the following language:

Bidder's Background and Experience:

Using Exhibit 9 found in Appendix B, Bidder must provide a summary of its relevant background experience including:

- Provide a summary of relevant background information to demonstrate that the Bidder meets the minimum requirements stated in Section 3 (Bidder's Minimum Qualifications) of this IFB and has the capability to perform the required services as a corporation or other entity;
- Summary of Bidder's experience and approach in the removal of various types of hazardous waste in non-emergent and emergent situations, methods to handle and dispose of materials and ability to operate equipment;
- Summary of Bidder(s) training provided to and required of its staff, including working with safety equipment and maintaining required certification;
- Summary description of Bidder's industrial safety record for the last five years;
- List of recycling or disposal facilities to be used;
- Attach verification of the following licenses as required in Section 3:
 - A valid Hazardous Materials Transportation License issued by the California Highway Patrol (CVC §32000.5);
 - A valid Hazardous Materials Certification of Registration issued by the Department of Transportation;
 - California Contractors State License Board license with hazmat designation; and

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- California Department of Toxic Substances Control Hazardous Waste Transporter Registration.
 - Verification that Bidder's business office is located in Los Angeles County;
 - Number of full-time employees; and
 - Description of size and organizational structure.
3. Appendix B, Required Forms, Exhibit 7 (Minimum Qualifications) is deleted from the Invitation for Bids in its entirety and replaced with the amended Exhibit 7-1, attached to this Addendum Two. All references to Exhibit 7 in the Invitation for Bids shall hereafter be replaced with Exhibit 7-1.
 4. Appendix B, Required Forms, Exhibit 9 (Bidder's Experience) is deleted from the Invitation for Bids in its entirety and replaced with the amended Exhibit 9-1, attached to this Addendum Two. All references to Exhibit 9 in the Invitation for Bids shall hereafter be replaced with Exhibit 9-1.
 5. Appendix B, Required Forms, Exhibit 10 (Pricing Sheet), is deleted from the Invitation for Bids in its entirety and replaced with the amended Exhibit 10-1, attached to this Addendum Two. All references to Exhibit 10 in the Invitation for Bids shall hereafter be replaced with Exhibit 10-1.
 6. Appendix B, Required Forms, Exhibit 11 (Submittal Requirements Checklist) is deleted from the Invitation for Bids in its entirety and replaced with the amended Exhibit 11-1, attached to this Addendum Two. All references to Exhibit 11 in the Invitation for Bids shall hereafter be replaced with Exhibit 11-1.
 7. Exhibit A, Statement of Work and Attachments Section 5.12, Licenses and Credentials is deleted from the Invitation for Bids in its entirety and replaced with the following language:

5.12 Licenses and Credentials

Contractor must keep current and renew all licenses and credentials specified below during the Contract term. Failure to maintain current licenses will result in assessment of liquidated damages in accordance with the Performance Requirements Summary. Contractor shall provide copies of all licenses and credentials to the Department upon request.

- A valid Hazardous Materials Transportation License issued by the California Highway Patrol (CVC §32000.5);
- A valid Hazardous Materials Certification of Registration issued by the Department of Transportation;

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- California Contractors State License Board license with hazmat designation; and
- California Department of Toxic Substances Control Hazardous Waste Transporter Registration.

PART TWO

QUESTIONS AND ANSWERS

The information hereunder, specific to the sections discussed below, supersedes any information previously provided as to those sections.

1. What is the normal bid process should we submit and are accepted for this solicitation?

A1: Bidders are invited to submit a Bid if they can demonstrate their ability to provide the required services outlined in Exhibit A (Statement of Work) of Appendix A (Sample Contract) and meet the Minimum Qualifications in IFB Section 3. The lowest price bid will be reviewed to determine whether it is responsive and responsible as stated in the IFB Section 8.1, Review Process.

2. Who is the incumbent contractor?

A2: There are three current Master Agreements with the following Contractors, HCI Environmental & Engineering Service; O.C. Vacuum, Inc. Environmental Services; and Ocean Blue Environmental Services, Inc. The current Contractors were qualified by submitting a Statement of Qualifications (SOQ) in response to a Request for Statement of Qualifications. Vendors that submitted a qualifying SOQ were awarded a Master Agreement and added to the Qualified Contractors list.

3. What has been the County's annual expenditure for these services for the past few years? What has been the total dollar amount spent to date on the expiring contract?

A3: The current annual contract amount is \$242,000 and the whole amount has been consistently used. The anticipated annual budget for the new contracts is also \$242,000. Note that the County has the sole discretion to expend some, all or none of such budgeted amounts.

4. Will you be posting the current contractor's pricing? Provide current contract pricing.

A4: There is no standard pricing for the current contractors. Currently, a work order is issued with a Statement of Work. Interested Qualified Contractors submit bids and the lowest cost bid is selected unless the Work Order specifies bid evaluation criteria other than lowest cost.

5. Will annual rate increases be based on PPU or CPI be allowed after the first year of the contract? Will requests for rate increases will be allowed during the contract? Or do rates have to be held firm the entire contract term of up to 3 years?

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A5: *As stated in IFB Section 2.6 Cost of Living Adjustments (COLAs), the Contractor's rates will remain firm and fixed for the initial three years of the Contract. Upon the Director's discretion, the Contract amount may be adjusted after the initial three years of the Contract term based on the increase or decrease the U.S. Department of Labor, Bureau of Labor Statistics' Consumer Price Index for Urban Consumers (CPI-U) for the Los Angeles-Long Beach-Anaheim area.*

6. If multiple contracts will be selected, how will task orders be dispersed?

A6: *As stated in Statement of Work, Section 6.1, Work Requirements, if more than one Contractor is selected for these services and the lowest cost Contractor fails to respond to a request for work, the next lowest cost Contractor will be selected to perform the services.*

7. Will bidder exceptions to the sample contract and/or terms cause bid disqualification?

A7: *The Sample Contract is not negotiable. A Bidder's submission of a Bid constitutes acknowledgement and acceptance of all terms and conditions of the IFB, including the Sample Contract. Failure of the Bidder to comply with the minimum requirements may eliminate its bid from any further consideration as stated in IFB Section 8.2, Adherence to Minimum Requirements.*

8. Are subcontractors allowed?

A8: *Sub-contracting is allowed in accordance with the terms and conditions of Sample Contract Section 8.40.*

9. Regarding Statement of Work Section 7.4, where Contractor may be required to compile data and produce quarterly and annual reports for septic system work. Please specify the exact name of reports that may be required. Also please provide a copy of these past quarterly and annual reports.

A9: *Both the quarterly and annual reports that may be required are referenced as the Groundwater Monitoring Report for the septic system in which work was performed. Please see Attachment VI for sample quarterly and annual reports.*

10. Regarding IFB Section 3.3 "Bidder(s) must include verification of the following licenses with its bid. **The name on the licenses must be Bidder's organization's name.** • California Department of Motor Vehicles License with "H" designation. "A CA DMV License with H designation is a drivers licenses issued to individual drivers not companies. Did you mean to require a California Department of Motor Vehicles, Motor Carrier Permit (these are issued to carriers/companies)? If not please explain which license is required here.

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A10: This requirement has been removed. Please see revised language in Part One of this Addendum.

11. Regarding Exhibit 10, Pricing Sheet, in Appendix B (Required Forms), do bidders need to provide pricing for all line items? Or can bidders provide pricing for just a select list of items?

A11: As stated in IFB Section 7.6.2 Pricing Sheet (Section A), Bidders should provide the Unit and Price per Unit for the specific types of hazardous materials Bidder is capable of removing.

12. Regarding Exhibit 10, Pricing Sheet, in Appendix B (Required Forms), for the UNEXPECTED/EMERGENT WORK HOURLY RATE, is this supposed to be a labor rate or equipment rate?

A12: Rates provided on Exhibit 10, Pricing Sheet, in Appendix B should be inclusive of all Bidder's costs. Please see amended Exhibit 10-1, attached to this Addendum Two.

13. Regarding Exhibit 10, Pricing Sheet, in Appendix B (Required Forms), for the Hazardous Materials, how is the County going to determine lowest bid if bidders are not all pricing the same Unit of Measure? Pertaining to the pricing sheet, how will the department calculate lowest bid? Since units (weight/volumes) are not specified, how will the county compare like bids?

A13: Please see amended Exhibit 10-1, attached to this Addendum Two for specified units of measure.

14. Must price per unit include labor, equipment, materials, and replacement drum?

A14: Please see answer to Question 13 above.

15. Regarding Exhibit 10, Pricing Sheet, in Appendix B (Required Forms), there is a section for Metals, number 7. Copper ...18. Zinc. What are these waste streams? Soils contaminated with the metals? What size containers is waste in?

A15: Metal materials have been removed; please see amended Exhibit 10-1, attached to this Addendum Two.

16. Regarding Exhibit 10, Pricing Sheet, in Appendix B (Required Forms), will contractor be required to package any of the waste streams? Which streams require contractor to package?

A16: Contractor shall assume they will be required to package any/all waste streams and provide empty packaging to allow for future accumulation as needed. Contractor should assume any drums/bucket/containers that are taken that are Department

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property will need to be replaced in kind and emptied for future use at the time of pickup.

17. Regarding Exhibit 10, Pricing Sheet, in Appendix B (Required Forms), number 1. Acid, this is way to broad to give you an accurate price: what type and concentration of acid?, what size container (1 gallon or 55 gallon?)

A17: Please see amended Exhibit 10-1, attached to this Addendum Two for acid types and estimated units of weight.

18. What size containers will the hazardous waste be in? 5 gallon, 15 gallon, 30 gallon, or 55 gallon containers?

A18: Please see amended Exhibit 10-1, attached to this Addendum Two for estimated units of weight.

19. Regarding Exhibit 10, Pricing Sheet, in Appendix B (Required Forms), what does your line item "sewage" entail? Is this a sewage spill? Or is this for septic pumping? This line is vague.

A19: Sewage indicates fecal/urinary waste, both liquids and solids, that may come from a variety of sources and may need to be cleaned accordingly. Some examples of a sewage spill may include but not limited to, a spill from a backed-up sewer line or restroom fixture that will need to be removed from the surrounding grounds/area. Sewage may be a pond or pool of waste caused by a portable toilet that has been tipped over or burnt to the ground. It may also be sewage pumped directly out of one of the multiple septic systems or sewer pump stations that the Department maintains.

20. Regarding Exhibit 10, Pricing Sheet, in Appendix B (Required Forms), can information be provided as to which line items are managed in bulk (ie: tanker, roll-off, etc.) and/or by containers (ie: drums, pails, boxes, etc.)?

A20: Please see amended Exhibit 10-1, attached to this Addendum Two for estimated units of weight.

21. Regarding Exhibit 10, Pricing Sheet, in Appendix B (Required Forms), can historical volumes be provided for waste disposal line items?

A21: Please see Attachment VII to this Addendum Two for sample tables of items requested to be collected with the current Master Agreements.

22. Regarding Exhibit 10 Pricing sheet, in Appendix B (Required Forms), can multiple rates be provided depending on shipping container size, and bulk vs. drum shipping method?

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A22: Please see amended Exhibit 10-1, attached to this Addendum Two for specified units of measure.

23. Regarding Statement of Work Section, Section 6.2 Request for Work, 6.2.1 states, "Upon telephone contact from the Department's Contract Administrator for requested services, Contractor will be required to respond within 24 hours of being contacted and be ready to perform the services at the date and time as instructed by the Contract Administrator." Can you confirm the services do not need to be performed within the 24 hours of request for services, but rather just need to be acknowledged and scheduled by the contractor within 24 hours? How much lead time will the County typically give Contractor when requesting non-Emergency service requests?

A23: This is entirely dependent on the situation. In some cases, such as potential environmental hazard releases, response within 24 hours will be required. In most non-emergency situations, acknowledgement within 24 hours will be acceptable as long as the contractor and County agree the work can be safely performed at a later time and date.

24. Confirming this is to be quoted as prevailing wage?

A24: No. Rates provided on Exhibit 10, Pricing Sheet, in Appendix B should be inclusive of all Bidder's costs. Please see amended Exhibit 10-1, attached to this Addendum Two.

25. Can the waste be shipped outside of the US?

A25: Yes, as long as regulations are followed according to the California Department of Toxic Substances Control.

26. For volatile and semi volatile organic compounds and metals, will this waste be mixed with these compounds and metals or by themselves?

A26: For the most part, volatile and semi volatile organic compounds and metals, such as paint, will be housed in their own containers. However, it is possible these wastes may be mixed with other compounds or metals depending on how they were found on the beach or stored before disposal.

27. What is meant by "EPA Acknowledgement of Notification of Hazardous Waste Activity"?

A27: This requirement has been removed. Please see revised language in Part One of this Addendum.

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28. The department asks for an “EPA acknowledgement of Notification of Hazardous Waste Activity”. Usually providing an active EPA ID number suffices this need, because you can publicly look up every vendor’s hazardous waste manifest on the DTSC/EPA website (<https://hwts.dtsc.ca.gov/>). Or does the department wish for something else? If so, what can we provide?

A28: This requirement has been removed. Please see revised language in Part One of this Addendum.

29. IFB, Section 3.4, says bidders must have a business office located in Los Angeles County. I want to confirm if this must indeed be an office. It cannot be a P.O. Box? Or an employee’s residential house? It has to be a facility with an active EPA ID number because we will be temporarily holding the department’s hazardous waste right?

A29: In accordance with IFB Section 3.4, Bidder’s Minimum Qualifications, Bidders must have a business office located in Los Angeles County and meet all other minimum qualifications stated to submit a Bid for this IFB.

30. Has the County assessed liquidated damages against the current or former Contractors? If yes, how often and what amount?

A30: No, the County has not assessed any liquidated damages against the current or former Contractors.

31. Regarding emergency work, is there a required response time frame? If a contractor cannot respond within such time frame, is the department entitled to liquidated damages? For example, 1 hour?

A31: In accordance with the Statement of Work, Section 8.1.1 Emergencies, the Contractor shall make such services available within two hours of notice from the Department. As stated in the Statement of Work, Performance Requirements Summary (PRS) Chart, there is a \$250 per occurrence fee if Contractor is unable to provide emergent/unexpected work as requested and authorized by the Contract Administrator.

32. Since no two emergencies are the same, what do you mean by “Unexpected/emergent work hourly rate”? Is this for a 15-gallon diesel spill? Or a 50,000 sewage spill that went underground?

A32: In accordance with Section 8 of the Statement of Work, this rate is for any work outside of the 90-day roundup of waste materials, cleaning/pump out of clarifier tanks or septic system pump out) when the need for such work arises out of

extraordinary incidents such as vandalism, acts of God, third-party negligence or when there is a threat to the health and safety of the public.

33. Since septic pumping is a large part of the work, shouldn't the county require vendors to have a County Public Health license to transport sewage and dispose at a local sanitation department?

A33: A County Public Health License to transport sewage is not required, but vendors without this license will not be authorized to work on any projects that require sewage pumping. Qualified contractors that demonstrate their compliance with having all sewage pumping vehicles properly registered with the LA County Department of Public Health will be given preference when sewage pumping operations are required. The licenses required by the County are stated in the revised language in Part One of this Addendum.

CONTRACTS REQUIRED FORMS - EXHIBIT 7-1

MINIMUM QUALIFICATIONS

Bidder acknowledges and certifies that it meets and will comply with the Bidder's Minimum Qualifications indicated below and as stated in Section 3 of this Invitation for Bids (IFB).

No.	Minimum Requirement(s) (M/R)	Complies with M/R	
		Yes	No
1	Bidder(s) must have and be able to demonstrate a minimum of five years' continuous experience in removal of hazardous materials for public and/or private sector entities.		
2	Bidders' Contract Representative must have at least three years' experience relative to the scope of work included in this IFB.		
3	<p>Bidder(s) must include verification of the following licenses with its bid. The name on the licenses must be Bidder's organization's name.</p> <ul style="list-style-type: none"> • A valid Hazardous Materials Transportation License issued by the California Highway Patrol (CVC §32000.5); • A valid Hazardous Materials Certification of Registration issued by the Department of Transportation; • California Contractors State License Board license with hazmat designation; and • California Department of Toxic Substances Control Hazardous Waste Transporter Registration. 		
4	Bidder(s) must have a business office located in Los Angeles County.		
5	Bidder must complete and return Exhibits 1-11 of Appendix B (Required Forms).		
6	Bidder does not have unresolved questioned cost, as identified by the Auditor-Controller, in an amount over \$100,000.00, that are confirmed to be disallowed costs by the County department and remain unpaid for a period of six months or more from the date of disallowance, unless such disallowed costs are the subject of current good faith negotiations to resolve the disallowed costs, in the opinion of the County.		

CONTRACTS REQUIRED FORMS - EXHIBIT 7-1

MINIMUM QUALIFICATIONS

Bidder asserts that it meets the Minimum Qualifications to provide the service(s)

Bidder's Name

Title

Signature

CONTRACTS REQUIRED FORMS - EXHIBIT 8-1
BIDDER'S LIST OF REFERENCES

Bidder's Name: _____

Provide a comprehensive reference list of no less than five references for the same or similar scope of services that were provided by the Bidder, demonstrating at least five years of experience. It is the Bidder's responsibility to ensure accuracy of the information provided below. Use additional pages if required.

1. PUBLIC AGENCIES (All contracts with other governmental agencies including the County of Los Angeles must be listed)	
SERVICE TYPE: _____	SERVICE TYPE: _____
CONTRACT TERM: _____	CONTRACT TERM: _____
CONTRACT AMT: _____	CONTRACT AMT: _____
AGENCY/DEPT: _____	AGENCY/DEPT: _____
CONTACT: _____	CONTACT: _____
TELEPHONE: _____	TELEPHONE: _____
E-MAIL: _____	E-MAIL: _____
SERVICE TYPE: _____	SERVICE TYPE: _____
CONTRACT TERM: _____	CONTRACT TERM: _____
CONTRACT AMT: _____	CONTRACT AMT: _____
AGENCY/DEPT: _____	AGENCY/DEPT: _____
CONTACT: _____	CONTACT: _____
TELEPHONE: _____	TELEPHONE: _____
E-MAIL: _____	E-MAIL: _____

2. PRIVATE FIRMS	
SERVICE TYPE: _____	SERVICE TYPE: _____
CONTRACT TERM: _____	CONTRACT TERM: _____
CONTRACT AMT: _____	CONTRACT AMT: _____
FIRM NAME: _____	FIRM NAME: _____
ADDRESS: _____	ADDRESS: _____
CONTACT: _____	CONTACT: _____
TELEPHONE: _____	TELEPHONE: _____
E-MAIL: _____	E-MAIL: _____
SERVICE TYPE: _____	SERVICE TYPE: _____
CONTRACT TERM: _____	CONTRACT TERM: _____
CONTRACT AMT: _____	CONTRACT AMT: _____
FIRM NAME: _____	FIRM NAME: _____
ADDRESS: _____	ADDRESS: _____
CONTACT: _____	CONTACT: _____
TELEPHONE: _____	TELEPHONE: _____
E-MAIL: _____	E-MAIL: _____

BIDDER'S BACKGROUND AND EXPERIENCE – EXHIBIT 9-1

Page 1

1. **BACKGROUND.** Please provide a summary of relevant background experience in providing as needed hazardous waste removal services. Bidder's background information must demonstrate that the Bidder meets the minimum qualifications as stated in Section 3 of the IFB.
2. **EXPERIENCE.** Please provide Bidder's experience and approach in the removal of various types of hazardous waste in non-emergent and emergent situations, methods to handle and dispose of materials and ability to operate equipment.
3. **TRAINING.** Summary of Bidder(s) training of its staff, working with safety equipment and maintaining required certification.
 - Provide a description of Bidder's industrial safety record for the last five years;
 - Provide a list of recycling or disposal facilities to be used in service of this IFB.
4. **PLEASE ATTACH VERIFICATION OF THE FOLLOWING LICENSES:**

License Name	License/Certification Number	Expiration Date
Hazardous Materials Transportation License		
Hazardous Materials Certification of Registration		
California Contractors State License Board license with hazmat designation		
California Department of Toxic Substances Control Hazardous Waste Transporter Registration		

5. PLEASE ATTACH PROOF THAT BIDDER'S BUSINESS OFFICE IS LOCATED IN LOS ANGELES COUNTY.
6. HOW MANY FULL-TIME EMPLOYEES DOES YOUR FIRM EMPLOY? _____
7. ATTACH AN ORGANIZATIONAL CHART OR DESCRIBE THE ORGANIZATION OF YOUR FIRM.
8. ADDITIONAL INFORMATION (Attach additional pages if necessary):

Signature: _____

Date: _____

Title: _____

EXHIBIT 10-1 PRICING BID

Please provide Price per Unit for the Estimated Unit to remove the specific **Types of Hazardous Material** listed below which Bidder is capable of removing. Bidders should also provide hourly labor rates to provide the Contract work and Unexpected/Emergent work that may be requested by the County. Bidders' hourly rates shall include all overhead and administrative costs, materials, subcontractors, risk items, equipment purchase/rental, disposal fees, transportation costs and any other associated expenses to provide the services. Bidders' hourly rates will remain firm and fixed for the initial three years of the Contract. **Actual amounts of hazardous materials for removal are not guaranteed by the County and may be more or less than the estimated units.**

The average Price per Unit for the highlighted Types of Hazardous Material below will be used for comparison of Bids.

HAZARDOUS MATERIAL		
Type of Hazardous Material	Estimated Unit (Weight/Volume)	Price per Unit
Fuels/Lubricants		
1. Motor Oil	55 Gallon Drum	\$
2. Used Fuel Filters	55 Gallon Drum	\$
3. Used Oil Rags	55 Gallon Drum	\$
4. Oil Buckets	50 Buckets	\$
5. Oil Absorbent Bags	50 Bags	\$
6. Gasoline or Gasoline and Water	55 Gallon Drum	\$
7. Diesel and Emulsion	55 Gallon Drum	\$
8. Diesel or Diesel and Water	55 Gallon Drum	\$
9. Electrical Insulating Oil	55 Gallon Drum	\$
Paints		
1. Water Based Paint	5 Gallons	\$
2. Oil Based Paint	5 Gallons	\$
3. Spray Paint Cans	5 Gallons	\$
Pesticides		
1. Herbicides	5 Gallons	\$
2. Insecticides	5 Gallons	\$
Thinners		
1. Paint Thinner	5 Gallons	\$
2. Lacquer Thinner	5 Gallons	\$
Cleaning Solvents		
1. Cleaning Solvents for Engine Degreasing	5 Gallons	\$
Containers and Solids		
1. Contaminated Containers and Solids	55 Gallon Drum	\$
Fluid		
1. Brake Fluid	55 Gallon Drum	\$

Coolant		
1. Antifreeze/Coolant	55 Gallon Drum	\$
Acids		
1. Acetic	One Gallon	\$
2. Boric	One Gallon	\$
3. Citric	One Gallon	\$
4. Lactic	One Gallon	\$
5. Sulfuric	One Gallon	\$
6. Hydrochloric	One Gallon	\$
Batteries		
1. Miscellaneous Sized Waste Batteries	20 Pounds	\$
Fluorescent		
1. Fluorescent Tubes (various sizes)	20 Pounds	\$
Asbestos Waste Products		
1. Asbestos and Water (Vehicle Brake Washings)	55 Gallon Drum	\$
2. Asbestos Pipe Scrap	55 Gallon Drum	\$
3. Pipe and Roof Shingles	55 Gallon Drum	\$
4. Tile	55 Gallon Drum	\$
5. Insulation	55 Gallon Drum	\$
Asphalt Products		
1. Asphalt Cement	55 Gallon Drum	\$
2. Emulsion	55 Gallon Drum	\$
3. Road Oil	55 Gallon Drum	\$
Cathode Ray		
1. Cathode Ray Tubes (CRT's)	20 Pounds	\$
Mercury		
1. Thermometers Containing Mercury	5 Gallons	\$
Volatile and Semi-volatile Organic Compounds		
1. Benzene	5 Gallons	\$
2. Toluene	5 Gallons	\$
3. Ethyl Benzene	5 Gallons	\$
4. Xylenes	5 Gallons	\$
5. Methyl Tertiary Butyl Ether	5 Gallons	\$
6. Trichloroethylene	5 Gallons	\$
7. Tetrachloroethylene	5 Gallons	\$

E-Waste		
1. Computers	50 Pounds	\$
2. Monitors	50 Pounds	\$
3. Printers	50 Pounds	\$
4. Cell Phones	50 Pounds	\$
5. Televisions	50 Pounds	\$
6. VCR/DVD Players	50 Pounds	\$
7. Landline Telephones	50 Pounds	\$
8. Microwaves	50 Pounds	\$
9. Radios	50 Pounds	\$
10. Toner Cartridges	50 Pounds	\$
Others		
1. Petroleum Hydrocarbons	100 Pounds	\$
2. Perchlorate	100 Pounds	\$
3. Polychlorinated Biphenyls (PCBs)	100 Pounds	\$
4. Sewage (Liquid)	100 Pounds	\$
5. Sewage(Solid)	100 Pounds	\$
5. Sand	100 Pounds	\$
6. Miscellaneous (tools, appliances, heavy or small equipment)	100 Pounds	\$

HOURLY LABOR RATES	
Field Chemist/Environmental Assessor	\$
Project Manager/Supervisor	\$
Technician/Equipment Operator	\$
Laborer	\$
Other	\$
UNEXPECTED/EMERGENT WORK	
UNEXPECTED/EMERGENT WORK HOURLY LABOR RATE \$ _____	

The Bidder represents that the person executing this offer and the following persons are individually authorized to commit the Bidder in any matter pertaining to the proposed Contract:

Name

Title

Bidder's signature

Date

REQUIRED FORMS – EXHIBIT 11-1

SUBMITTAL REQUIREMENTS CHECKLIST

REQUIREMENT	CHECK IF SUBMITTED
FORMAT OF BID	
<ul style="list-style-type: none"> Table of Contents 	<input type="checkbox"/>
BIDDER'S QUALIFICATIONS	
<ul style="list-style-type: none"> Summary of relevant background information demonstrating minimum qualifications are met. 	<input type="checkbox"/>
<ul style="list-style-type: none"> Copy of either <u>"Certificate of Good Standing," "Statement of Information," "Certificate of Limited Partnership" or "Registration of Foreign Limited Partnership."</u> 	<input type="checkbox"/>
STATEMENT OF WORK	
<ul style="list-style-type: none"> Quality Control Plan 	<input type="checkbox"/>
REQUIRED FORMS	
<ul style="list-style-type: none"> Exhibit 1 Bidder's Organization Questionnaire/Affidavit 	<input type="checkbox"/>
<ul style="list-style-type: none"> Exhibit 2 Certification of Compliance 	<input type="checkbox"/>
<ul style="list-style-type: none"> Exhibit 3 Request for Preference Consideration 	<input type="checkbox"/>
<ul style="list-style-type: none"> Exhibit 4 Bidder's Debarment History and List of Terminated Contracts 	<input type="checkbox"/>
<ul style="list-style-type: none"> Exhibit 5 Declaration 	<input type="checkbox"/>
<ul style="list-style-type: none"> Exhibit 6 Community Business Enterprise (CBE) Information 	<input type="checkbox"/>
<ul style="list-style-type: none"> Exhibit 7-1 Minimum Requirements <ul style="list-style-type: none"> ➤ Bidder's verification of the required licenses as stated in Section 3 (Bidder's Minimum Qualifications) of the IFB. ➤ Proof that Bidder's business address is in Los Angeles County 	<input type="checkbox"/> <input type="checkbox"/>
<ul style="list-style-type: none"> Exhibit 8 Bidder's List of References 	<input type="checkbox"/>
<ul style="list-style-type: none"> Exhibit 9-1 Bidder's Background and Experience 	<input type="checkbox"/>

REQUIRED FORMS – EXHIBIT 11-1

SUBMITTAL REQUIREMENTS CHECKLIST

▪ Exhibit 10-1 Pricing Sheet	<input type="checkbox"/>
PROOF OF INSURABILITY	
▪ Proof that Bidder meets all insurance requirements set forth in Appendix A	<input type="checkbox"/>
CONTRACT'S STANDARD EXHIBITS	
▪ Exhibit F Contractor's Administration	<input type="checkbox"/>
▪ Exhibit H Contractor Acknowledgement and Confidentiality Agreement	<input type="checkbox"/>

Failure to complete, sign (where required) and return the above documents with the IFB may disqualify the IFB due to non-responsiveness by the County.

Groundwater Monitoring Report

For

**Surfrider Beach
(Compliance No. CI-8532/File No. 02-170)**

SAMPLE

**Quarterly Report
October 2018 – December 2018**

**Submitted by:
County of Los Angeles
Operational Services Division
January 2019**

Surfrider Beach
Groundwater Monitoring Report
Compliance No. CI-8532
File No. 02-170

Facility Description

The County of Los Angeles Department of Beaches and Harbors (Department) owns and operates a bathhouse/comfort station, lifeguard stations, storage and parking at Surfrider County Beach. The facilities are located at 23060 W. Pacific Coast Highway.

There are a total of two exterior showers, ten toilets, four sinks, and six urinals on the site. Beach visitors utilize the showers to rinse off sand and seawater. The wastewater consists of normal domestic waste without any kitchen waste.

The Malibu Surfrider Beach restroom facility was upgraded in March 15, 2011. The installed enhanced septic system uses an Advantex System with one AX100 filter pod, 2 AX20 filter pods, a 2,500 gallon sand trap, and a 12,000 gallon primary/recirculation tank. A chlorination/de-chlorination unit, UV light and an Ozone Generator is used to disinfect the treated wastewater before it is sent to the dispersal field.

The facility elevation is approximately 17.5 feet above mean sea level. The groundwater table was located 16 feet below ground surface in October 2018. An estimated maximum of 2,250 gallons per day (gpd) of wastewater is generated at this facility.

This facility received a General Waste Discharge Requirement Permit (State Order No. 97-10-DWQ) from the Regional Water Quality Control Board on February 25, 2003. This order was amended January 12, 2011 to address the proposed modification to the existing standard septic tank and leachfield that had failed. The amended order included a site-specific Monitoring and Reporting Program (MRP) No. CI-8532 which amends the original February 25, 2003 MRP CI-8532.

A groundwater monitoring network plan and monitoring wells are required at this facility. The groundwater monitoring plan was submitted and approved. A schedule for groundwater monitoring well construction was submitted on December 12, 2003. The monitoring well construction at this site was completed and the well completion report was submitted to your office.

Population Estimate

The beach and restroom facilities are open from 7 a.m. until 10 p.m. daily. The reporting period for this quarterly report is from October 2018 through December 2018.

Populations served by the beach restroom facilities vary considerably depending on weather conditions at the beach area. The County Lifeguards take daily tallies to determine the number of people that visit the beach area. Based on the limited records for the facility, number of beach visitors, and the standard usage of a beach restroom, it is estimated that approximately one-third of these beach goers may actually use the restroom facilities. The monthly populations that accessed Surfrider are as follows:

Month (2018)	Number of Beach Visitors ¹
July	254,000
August	237,000
September	186,300
October	175,500

**Surfrider Beach
Groundwater Monitoring Report
Compliance No. CI-8532
File No. 02-170**

Month (2018)	Number of Beach Visitors ¹
November	44,285
December	21,700

¹ Visitor logs unavailable at the time the 3rd Quarter report was prepared. Results from 3rd and 4th Quarters provided for completeness.

Discharge Volume

The County of Los Angeles Department of Public Works - Waterworks Division (Malibu Water District) supplies potable water to this facility.

The discharge volume for this facility varies considerably both seasonally and daily. The entire amount of water supplied to the lifeguard station by the Malibu Water District could potentially reach the septic system. However, since some of this water is supplied to the drinking fountains and hose bibs, the amount entering the septic system will be less than that supplied by the water district.

Average water usage and average and maximum waste flows recorded by the discharge meter located at this facility are summarized below:

Month	Average Water Usage (gpd) ¹	Average/Max Waste Flow (gpd)
July ²	2,316	1,514/3,639
August ³	2,481	1,417/2,751
September ³	2,282	1,291/3,170
October	1,282	752/1,172
November	1,282	346/1,268
December	NA	293/544

NA – Not Available.

- ¹ Provided by Malibu Water District. Data available through November 27, 2018 only. Updated water use average for November and water use average for December will be provided in the 1st Quarter 2019 report.
- ² Calculated from the pump logs.
- ³ Water use unavailable at the time the 3rd Quarter report was prepared. Results from 3rd Quarter provided for completeness.

Maintenance and Observations

The vendor, BioSolutions, provided system maintenance as required throughout the reporting period. The UV disinfection unit was rebuilt October 12, 2018 by BioSolutions at Surfrider County Beach.

No waste was removed from this facility during the reporting period.

Surfrider Beach
Groundwater Monitoring Report
Compliance No. CI-8532
File No. 02-170

Monitoring Program

Two groundwater monitoring points are available on site, one located northeast of the leach field (sampling point SB-1) and one located downstream of the leach field within the beach area (Monitoring Well SB-2). The locations of the monitoring wells were selected based on the known regional groundwater flow direction.

The facility permit requires quarterly sampling of the effluent before it enters the leach field and quarterly groundwater monitoring. In addition, the permit requires monthly sampling of the effluent for bacteria from April 1 to October 31 and weekly sampling for bacteria if concentrations exceed listed limits during any of the sampling events.

Effluent and groundwater samples were collected and analyzed by Pat-Chem Laboratories. All analyses were conducted at a laboratory certified for such analyses by the California Department of Health Services, and in accordance with USEPA guideline procedures or as specified in this Monitoring Report. Analytical results are summarized below.

Effluent Results:

Analyte	SB-EP 10/23/18	SB-EP 11/2/18	SB-EP 11/20/18	SB-EP 11/28/18	SB-EP 12/08/18	SB-EP 12/17/18	SB-EP 12/27/18	SB-EP 12/31/18	WDR 97- 10-DWQ ¹
Residual Chlorine (mg/L)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	8
pH (pH Units)	7.3	9.5	6.8	7.1	7.4	8.0	7.7	7.7	6-9
Ammonia -N (mg/l)	114	54.0	36.2	14.1	2.1	0.86	0.49	0.38	2.4
BOD ₅ 20°C (mg/L)	27	18	51	3	3	5	5	4	30
Nitrate - N (mg/L)	30.0	6.9	3.8	56	53.0	45.8	59.4	53.0	<10
Nitrite - N (mg/L)	0.0	0.1	6.1	2.4	0.40	1.45	0.25	0.52	<1.0
Organic Nitrogen (mg/L)	49.8	71.0	6 ³	<0 ³	3.43 ³	5.79	0.449	3.55	
Total Kjeldahl Nitrogen (mg/L)	164	125	42.2	13.4	6.30	6.65	0.94	3.92	
Total Nitrogen (mg/L)	164	133	79.6	72.6	59.7	53.6	60.7	57.5	10
TDS (mg/L)	628	3692	996	1080	1112	1360	976	1044	
TSS (mg/L)	31	125	11	4	2	8	5	5	30
Turbidity (NTU)	17.0	143	4.8	2.8	2.4	2.5	2.3	1.1	10
Chloride (mg/L)	181	240	178	241	173	156	171	147	
Sulfate as SO ₄ (mg/L)	85.9	111	202	199	160	145	129	119	
E. Coli (MPN/100ml)	NA	NA	NA	NA	NA	540.0			
Enterococcus (MPN/100ml)	2419.6	2419.6	2419.6	2419.6	2419.6	2419.6	2419.6	<1.0	35/104 ²
Fecal Coliform (MPN/100ml)	1600	220	920	240.0	4.0	540.0	1600	1600	200/400 ²
Total Coliform (MPN/100ml)	1600	1600	1600	1600	1600	540.0	1600	1600	70/230 ²

¹ WDR modified by RWQCB in their letter dated January 12, 2011.

² Median Total Coliform density shall not exceed 70 MPN per 100mL, and not more than 10% of the samples shall exceed a single sample maximum (SSM) of 230 MPN per 100mL. Basin Plan limits for water contact recreation: Fecal Coliform and Enterococcus (30-day geometric mean/single sample maximum).

³ Calculated value not reported by laboratory. Organic Nitrogen = Total Kjeldahl Nitrogen – Ammonia.

NA - Not Analyzed

**Surfrider Beach
Groundwater Monitoring Report
Compliance No. CI-8532
File No. 02-170**

Groundwater Results:

Analyte	SB1 10/26/18	SB2 10/26/18	WDR 97-10- DWQ¹
Residual Chlorine (mg/L)	<0.05	NS	8
pH (pH Units)	7.6	NS	6-9
Ammonia -N (mg/l)	<0.10	NS	2.4
Nitrate - N (mg/L)	1.53	NS	<10
Nitrite - N (mg/L)	0.04	NS	<1
Organic Nitrogen (mg/L)	0.61 ¹	NS	
Total Kjeldahl Nitrogen (mg/L)	0.61	NS	
Total Nitrogen (mg/L)	2.18	NS	10
TDS (mg/L)	564	NS	2,000
TSS (mg/L)	<1	NS	
Chloride (mg/L)	143	NS	
Sulfate as SO ₄ (mg/L)	112	NS	
Enterococcus (MPN/100ml)	3.1	NS	104
Fecal Coliform (MPN/100ml)	<1.1	NS	400
Total Coliform (MPN/100ml)	<1.1	NS	230

NS – Not Sampled, well dry.

¹ Calculated value not reported by laboratory. Organic Nitrogen = Total Kjeldahl Nitrogen – Ammonia.

Summary of Non-Compliance

Results of the required effluent samples were in compliance with permit limits with the exception of ammonia, BOD, nitrate, nitrite, total nitrogen, TSS, turbidity, enterococcus, fecal, and total coliform bacteria which exceeded permit limits during one or more of the weekly and/or monthly sampling events. Weekly effluent sampling for bacteria was generally performed as a result of the observed bacteria exceedances. It is noted that sampling activities were restricted due to the Woolsey fire which began November 8, 2018.

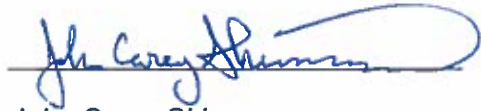
The maintenance service provider has repaired the chlorination unit which was damaged by burrowing rodents and rebuilt the UV unit October 12, 2018. The provider is planning on meeting with the sampling personnel January 17, 2019 to ensure samples are being collected at the correct location. Weekly sampling for all analytes exceeding permit limits will continue until two consecutive readings are below permit limits.

Results of required groundwater monitoring samples were in compliance with permit limits.

Certification Statement

"I certify under penalty of law that this document, including all attachments and supplemental information, was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment."

Executed on the 15th day of January, 2019 at Los Angeles, California

A handwritten signature in blue ink, appearing to read "John Carey Skinner", written over a horizontal line.

*John Carey Skinner
Administrative Services Manager I, Operational Services Division*

Attachment

SAMPLE

**Surfrider Beach
Groundwater Monitoring Report
Compliance No. CI-8532
File No. 02-170**

4th Quarter 2018 Laboratory Data

SAMPLE



QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
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PAT-CHEM
LABORATORIES

02 November 2018

Ed Maddox
LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles, CA 90063
RE: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF

Enclosed are the results of analyses for samples received by the Pat-Chem Laboratories (ELAP 1531) on 23-Oct-18 18:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

SAMPLE

Steve Jefferson
Laboratory Director



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QUALITY ANALYTICAL SERVICES SINCE 1987

PAT-CHEM
LABORATORIES

LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles CA, 90063

Project: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF
Project Number: LAC-ISD, Surf Rider Beach Monthly & Qt
Project Manager: Ed Maddox

Reported:
02-Nov-18 14:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB - EP	18J0605-01	Water	23-Oct-18 14:05	23-Oct-18 18:40

SAMPLE

Pat-Chem Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Steve Jefferson, Laboratory Director



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PAT-CHEM
LABORATORIES

LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles CA, 90063

Project: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF
Project Number: LAC-ISD, Surf Rider Beach Monthly & Qt
Project Manager: Ed Maddox

Reported:
02-Nov-18 14:43

SB - EP

Sample I.D.#: 18J0605-01 (Water)

Date Sampled: 23-Oct-18 14:05

Sampled By: MS of PCL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Pat-Chem Laboratories

Results Provided by Client

Residual Chlorine	<0.05	0.05	mg/l	1	AK80123	23-Oct-18	23-Oct-18	By Client
pH	7.3	0.1	pH Units	1	AK80123	23-Oct-18	23-Oct-18	By Client

General Inorganic Nonmetallic Chemistry by Standard Methods/EPA Methods

Ammonia as N	114	0.10	mg/l	125	AJ82425	24-Oct-18	24-Oct-18	EPA 350.1
Biochemical Oxygen Demand	27	2	mg/l	1	AJ82426	24-Oct-18	29-Oct-18	SM 5210B
Nitrate as N	<0.7	0.20	mg/l		82420	24-Oct-18	24-Oct-18	EPA 353.2
Nitrite as N	0.00	0.20	mg/l	10	82420	24-Oct-18	24-Oct-18	EPA 353.2
Organic Nitrogen	9.8	0.00	mg/l		[CALC]	24-Oct-18	25-Oct-18	Calc.
Total Kjeldahl Nitrogen	164	5.00	mg/l	50	82419	24-Oct-18	25-Oct-18	EPA 351.2
Total Nitrogen	164	0.20	mg/l	50	[CALC]	24-Oct-18	25-Oct-18	[CALC]

General Physical Chemistry by Standard Methods/EPA Methods

Total Dissolved Solids	628	5	mg/l	1	AJ82428	24-Oct-18	25-Oct-18	SM 2540C
Total Suspended Solids	31	1	mg/l	1	AJ82427	24-Oct-18	24-Oct-18	SM 2540D
Turbidity	17.0	0.1	NTU	1	AJ82435	24-Oct-18	24-Oct-18	EPA 180.1

Anions by EPA Method 300.0

Chloride	181	1.0	mg/l	50	AJ82434	24-Oct-18	25-Oct-18	EPA 300.0
Sulfate as SO4	85.9	0.5	mg/l	50	AJ82434	24-Oct-18	25-Oct-18	EPA 300.0

Microbiological Parameters by APHA Standard Methods

Enterococcus	2419.6	1.0	MPN/100 ml	1	AJ82432	24-Oct-18	25-Oct-18	SM 9230D	>=
Fecal Coliforms	1600	1.8	MPN/100 ml	1	AJ82432	23-Oct-18	26-Oct-18	SM 9221E	>=
Total Coliforms	1600	1.8	MPN/100 ml	1	AJ82432	23-Oct-18	26-Oct-18	SM 9221B	>=

Pat-Chem Laboratories

Steve Jefferson, Laboratory Director

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PAT-CHEM
LABORATORIES

LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles CA, 90063

Project: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF
Project Number: LAC-ISD, Surf Rider Beach Monthly & Qt
Project Manager: Ed Maddox

Reported:
02-Nov-18 14:43

Notes and Definitions

>= Result was greater than or equal to the reported value.

RPD Relative Percent Difference

SAMPLE

Pat-Chem Laboratories

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Steve Jefferson, Laboratory Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#:

18JB605

Customer: Los Angeles County - ISD				Project: Surfrider Beach Effluent Monthly + Quarterly							
Address: 1102 N Eastern Ave.				Sampled by: <u>MARIO SANTISTEBAN</u>				P.O. #:			
Los Angeles, Ca 90062				Report Attention: Joel Sears JSears@isd.lacounty.org				Phone #: 323-267-2333			
Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab		
SB - EP	<u>10/23/18</u>	<u>1405</u>	2	Total & Fecal Coliforms & Enterococcus Cl2 res.= _____ mg/L	Grab	AQ	Coli	ST	pH = <u>7.25/24.2°C</u>		
SB - EP	<u>↓</u>	<u>↓</u>	4	TDS, TSS, Turbidity, BOD, Sulfate, Chloride, NO3-N & NO2-N & Total N	Grab	AQ	1L	4°C			
SB - EP	<u>↓</u>	<u>↓</u>	1	NH3-N	Grab	AQ	500 P	HS	Cl2 = <u>0</u> mg/L		
<h1>SAMPLE</h1>											
MONTHLY ONLY FROM APR-06											
Total Flow											
CL-8532											
pH Meter # _____											
Surfrider Lifeguard Station and Bathouse/ Comfort Station Global ID: WDR100001196											
Signature		Print Name (Company)		Date	Time	Sample Received Checklist			Sample Type		
Relinquished by						Temperature upon receipt: _____			Grab		
Received by <u>Mario Santisteban</u>		<u>MARIO SANTISTEBAN</u>		<u>10/23/18</u>	<u>1425</u>	# of bottles agrees with COC? Yes No			Comp		
Relinquished by						Samples intact? Yes No			Matrix		
Received by <u>Mario Santisteban</u>		<u>MARIO SANTISTEBAN</u>		<u>10/23/18</u>	<u>1840</u>	Samples properly preserved? Yes No			AQ - Water		
Relinquished by						Samples in holding time? Yes No			SO - Soil / Sludge		
Received in lab by									OT - Other		
						Compliance Monitor			Bottle Type		
						Initial Flow <u>2388295</u>			P - Plastic		
						Final Flow <u>2388460</u>			G - Amber Glass		
									VOA - 40 ml Vial		
									Coli - bacteria		
									Preservations		
									HC - HCl		
									HS - H2SO4		
									HN - HNO3		
									HP - H3PO4		
									OH - NaOH		
									ST - Sodium Thiosulfate		
									AA - Ascorbic Acid		
									AI - AlCl3		
									Cu - CuSO4		

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Final Flow 2388460 GAL



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PAT-CHEM
LABORATORIES

14 January 2019

Ed Maddox
LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles, CA 90063
RE: LAC-ISD, Surf Rider Beach Quarterly MW (2 Sites)

Enclosed are the results of analyses for samples received by the Pat-Chem Laboratories (ELAP 1531) on 26-Oct-18 18:06. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

SAMPLE

Steve Jefferson
Laboratory Director



QUALITY ANALYTICAL SERVICES SINCE 1987

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PAT-CHEM
LABORATORIES

LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles CA, 90063

Project: LAC-ISD, Surf Rider Beach Quarterly MW (2 Sites)
Project Number: LAC-ISD, Surf Rider Beach Qtrly MW (2 sites total)
Project Manager: Ed Maddox

Reported:
14-Jan-19 16:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB - 1	18J0667-01	Water	26-Oct-18 10:08	26-Oct-18 18:06

SAMPLE

Pat-Chem Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Steve Jefferson, Laboratory Director



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PAT-CHEM
LABORATORIES

LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles CA, 90063

Project: LAC-ISD, Surf Rider Beach Quarterly MW (2 Sites)
Project Number: LAC-ISD, Surf Rider Beach Qtrly MW (2 sites total)
Project Manager: Ed Maddox

Reported:
14-Jan-19 16:52

SB - 1

Sample I.D.#: 18J0667-01 (Water) Date Sampled: 26-Oct-18 10:08 Sampled By: MS/AW

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Pat-Chem Laboratories

Results Provided by Client

Residual Chlorine	<0.05	0.05	mg/l	1	AK80123	26-Oct-18	26-Oct-18	By Client
pH	7.6	0.1	pH Units	1	AK80123	26-Oct-18	26-Oct-18	By Client

General Inorganic Nonmetallic Chemistry by Standard Methods/EPA Methods

Ammonia as N	<0.10	0.10	mg/l	1	AJ82923	29-Oct-18	29-Oct-18	EPA 350.1
Nitrate as N	1.53	0.02	mg/l	1	AJ82613	26-Oct-18	26-Oct-18	EPA 353.2
Nitrite as N	0.0	0.02	g/l	1	82613	26-Oct-18	26-Oct-18	EPA 353.2
Total Kjeldahl Nitrogen	0.1	0.10	g/l	1	82924	26-Oct-18	30-Oct-18	EPA 351.2
Total Nitrogen	0.18	0.000	g/l	[CALC]	26-Oct-18	30-Oct-18	[CALC]	

General Physical Chemistry by Standard Methods/EPA Methods

Total Dissolved Solids	564	5	mg/l	1	AJ82927	29-Oct-18	30-Oct-18	SM 2540C
Total Suspended Solids	<1	1	mg/l	1	AJ82928	29-Oct-18	29-Oct-18	SM 2540D

Anions by EPA Method 300.0

Chloride	143	1.0	mg/l	10	AJ82918	29-Oct-18	29-Oct-18	EPA 300.0
Sulfate as SO4	112	0.5	mg/l	10	AJ82918	29-Oct-18	29-Oct-18	EPA 300.0

Microbiological Parameters by APHA Standard Methods

Enterococcus	3.1	1.0	MPN/100 ml	1	AJ82604	26-Oct-18	27-Oct-18	SM 9230D
Fecal Coliforms	<1.1	1.1	MPN/100 ml	1	AJ82604	26-Oct-18	30-Oct-18	SM 9221E
Total Coliforms	<1.1	1.1	MPN/100 ml	1	AJ82604	26-Oct-18	30-Oct-18	SM 9221B

Pat-Chem Laboratories

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Steve Jefferson, Laboratory Director



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PAT-CHEM
LABORATORIES

LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles CA, 90063

Project: LAC-ISD, Surf Rider Beach Quarterly MW (2 Sites)
Project Number: LAC-ISD, Surf Rider Beach Qtrly MW (2 sites total)
Project Manager: Ed Maddox

Reported:
14-Jan-19 16:52

Notes and Definitions

RPD Relative Percent Difference

SAMPLE

Pat-Chem Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Steve Jefferson, Laboratory Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 18J0667

Customer: Los Angeles County - ISD				Project: Surfrider Beach MW Monthly + Quarterly Page 2 of 2							
Address: 1102 N Eastern Ave. Los Angeles, Ca 90062				Sampled by: <u>MARIO SANTIESTEBAN</u>				P.O. #:			
				Report Attention: Joel Sears JSears@isd.lacounty.org				Phone #: 323-267-2333			
Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab		
Surfrider Beach Effluent Monthly	<u>10/26/18</u>	<u>1800</u>	2	Total & Fecal Coliforms	Grab	AQ	Coli	ST	pH = <u>7.56/20.8°C</u>		
SB X 1	↓	↓	2	TDS, TSS, Sulfate, Chloride, NO3-N & NO2-N & Total Nitrogen	Grab	AQ	1L	4°C			
SB X 1	↓	↓	1	NH3-N	Grab	AQ	500 P	HS	Cl2 = <u>0</u> mg/L		
									Depth = <u>16.0'</u>		
CL-8532									pH Meter # _____		
Surfrider Lifeguard Station and Bathhouse/ Comfort Station Global ID: WDR100001196											
Signature	Print Name (Company)	Date	Time	Sample Received Checklist				Sample Type	Preservations		
Relinquished by		<u>(LAC) 10/26/18</u>	<u>1025</u>	Temperature upon receipt: <u>4</u>				<u>Grab</u>	HC - HCl		
Received by	<u>MARIO SANTIESTEBAN</u>	<u>(PCL) 10/26/18</u>	<u>1025</u>	# of bottles agrees with COC? <u>Yes</u> No				<u>Comp</u>	HS - H2SO4		
Relinquished by	<u>MARIO SANTIESTEBAN</u>	<u>(PCL) 10/26/18</u>	<u>1806</u>	Samples intact? <u>Yes</u> No				<u>Matrix</u>	HN - HNO3		
Received by				Samples properly preserved? <u>Yes</u> No				<u>AQ - Water</u>	HP - H3PO4		
Relinquished by				Samples in holding time? <u>Yes</u> No				<u>SO - Soil / Sludge</u>	OH - NaOH		
Received in lab by	<u>PL</u>	<u>10/26/18</u>	<u>1806</u>	Compliance Monitor				<u>OT - Other</u>	ST - Sodium Thiosulfate		
				Initial Flow _____				<u>Bottle Type</u>	AA - Ascorbic Acid		
				Final Flow _____				<u>P - Plastic</u>	AI - AlCl3		
								<u>G - Amber Glass</u>	Cu - CuSO4		
								<u>VOA - 40 ml Vial</u>			
								<u>Coli - bacteria</u>			

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: _____

Customer: Los Angeles County - ISD				Project: Surfrider Beach MW Monthly + Quarterly Page 2 of 2					
Address: 1102 N Eastern Ave. Los Angeles, Ca 90062				Sampled by:				P.O. #:	
				Report Attention: Joel Sears JSears@isd.lacounty.org				Phone #: 323-267-2333	
Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
Surfrider Beach Effluent Monthly	10/26/18		2	Total & Fecal Coliforms	Grab	AQ	Coli	ST	pH =
SB 2			2	TDS, TSS, Sulfate, Chloride, NO3-N & NO2-N & Total Nitrogen	Grab	AQ	1L	4°C	
SB 2			1	NH3-N	Grab	AQ	500 P	HS	Cl2 = mg/L
									Depth =
CL-8532				pH Meter # _____					
Surfrider Lifeguard Station and Bathouse/ Comfort Station Global ID: WDR100001196									

Signature	Print Name (Company)	Date	Time	Sample Received Checklist	Sample Type	Preservations
Relinquished by				Temperature upon receipt: _____	Grab	HC - HCl
Received by				# of bottles agrees with COC? Yes No	Comp	HS - H ₂ SO ₄
Relinquished by				Samples intact? Yes No	Matrix	HN - HNO ₃
Received by				Samples properly preserved? Yes No	AQ - Water	HP - H ₃ PO ₄
Relinquished by				Samples in holding time? Yes No	SO - Soil / Sludge	OH - NaOH
Received in lab by					OT - Other	ST - Sodium Thiosulfate
					Bottle Type	AA - Ascorbic Acid
					P - Plastic	AI - AlCl ₃
					G - Amber Glass	Cu - CuSO ₄
					VOA - 40 ml Vial	
					Coli - bacteria	

-DRY-
MS

SAMPLE

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Initial Flow _____
Final Flow _____

Rev 2 Effective 5/1/17



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PAT-CHEM
LABORATORIES

15 November 2018

Ed Maddox
LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles, CA 90063
RE: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF

Enclosed are the results of analyses for samples received by the Pat-Chem Laboratories (ELAP 1531) on 02-Nov-18 17:56. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

SAMPLE

Steve Jefferson
Laboratory Director



1824 1st Street
San Fernando, CA 91340
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QUALITY ANALYTICAL SERVICES SINCE 1987

PAT-CHEM
LABORATORIES

LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles CA, 90063

Project: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF
Project Number: Weekly
Project Manager: Ed Maddox

Reported:
15-Nov-18 16:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB - EP	18K0054-01	Water	02-Nov-18 12:10	02-Nov-18 17:56

SAMPLE

Pat-Chem Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Steve Jefferson, Laboratory Director



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PAT-CHEM
LABORATORIES

LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles CA, 90063

Project: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF
Project Number: Weekly
Project Manager: Ed Maddox

Reported:
15-Nov-18 16:34

SB - EP

Sample I.D.#: 18K0054-01 (Water) Date Sampled: 02-Nov-18 12:10 Sampled By: JS

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Pat-Chem Laboratories

Results Provided by Client

Residual Chlorine	<0.05	0.05	mg/l	1	AK81524	02-Nov-18	02-Nov-18	By Client
pH	9.5	0.1	pH Units	1	AK81524	02-Nov-18	02-Nov-18	By Client

General Inorganic Nonmetallic Chemistry by Standard Methods/EPA Methods

Ammonia as N	54.0	0.10	mg/l	25	AK80535	05-Nov-18	05-Nov-18	EPA 350.1
Biochemical Oxygen Demand	38	2	mg/l	1	AK80427	04-Nov-18	09-Nov-18	SM 5210B
Nitrate as N	6.8	0.20	mg/l	1	AK80215	02-Nov-18	02-Nov-18	EPA 353.2
Nitrite as N	0.02	0.02	mg/l	1	AK80215	02-Nov-18	02-Nov-18	EPA 353.2
Organic Nitrogen	1.0	0.00	mg/l	1	[CALC]	05-Nov-18	06-Nov-18	Calc.
Total Kjeldahl Nitrogen	125	1.5	mg/l	125	AK80538	05-Nov-18	06-Nov-18	EPA 351.2
Total Nitrogen	133	0.02	mg/l	125	[CALC]	05-Nov-18	06-Nov-18	[CALC]

General Physical Chemistry by Standard Methods/EPA Methods

Total Dissolved Solids	3692	5	mg/l	1	AK80542	05-Nov-18	06-Nov-18	SM 2540C
Total Suspended Solids	125	1	mg/l	1	AK80633	06-Nov-18	06-Nov-18	SM 2540D
Turbidity	143	0.1	NTU	1	AK80221	02-Nov-18	02-Nov-18	EPA 180.1

Anions by EPA Method 300.0

Chloride	240	1.0	mg/l	100	AK80537	05-Nov-18	06-Nov-18	EPA 300.0
Sulfate as SO4	111	0.5	mg/l	100	AK80537	05-Nov-18	06-Nov-18	EPA 300.0

Microbiological Parameters by APHA Standard Methods

Enterococcus	2419.6	1.0	MPN/100 ml	1	AK80212	02-Nov-18	03-Nov-18	SM 9230D	>=
Fecal Coliforms	220.0	1.8	MPN/100 ml	1	AK80212	02-Nov-18	05-Nov-18	SM 9221E	
Total Coliforms	1600	1.8	MPN/100 ml	1	AK80212	02-Nov-18	05-Nov-18	SM 9221B	>=

Pat-Chem Laboratories

Steve Jefferson, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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PAT-CHEM
LABORATORIES

LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles CA, 90063

Project: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF
Project Number: Weekly
Project Manager: Ed Maddox

Reported:
15-Nov-18 16:34

Notes and Definitions

>= Result was greater than or equal to the reported value.

RPD Relative Percent Difference

SAMPLE

Pat-Chem Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Steve Jefferson, Laboratory Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 18K0054

Customer: Los Angeles County - ISD				Project: Surfrider Beach Effluent Weekly							
Address: 1102 N Eastern Ave. Los Angeles, Ca 90062				Sampled by: <u>MARIO SANTISTEBAN</u> Joel Sears JSears@isd.lacounty.org				P.O. #: 323-267-2333			
Report Attention:				Phone #:							
Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab		
SB - EP	<u>11/2/18</u>	<u>1210</u>	2	Total & Fecal Coliforms & Enterococcus Cl2 res. = mg/L	Grab	AQ	Coli	ST	pH = <u>9.54/27.1°C</u>		
SB - EP	↓	↓	4	TDS, TSS, Turbidity, BOD, Sulfate, Chloride, NO3-N & NO2-N & Total N	Grab	AQ	1L	4°C			
SB - EP	↓	↓	1	NH3-N	Grab	AQ	500 P	HS	Cl2 = <u>0</u> mg/L		
<h1>SAMPLE</h1>											
MONTHLY ONLY FROM APR-06											
Total Flow											
CL-8532											
pH Meter # _____											
Surfrider Lifeguard Station and Bathhouse/ Comfort Station Global ID: WDR100001196											
Signature		Print Name (Company)		Date	Time	Sample Received Checklist			Sample Type		
Relinquished by <u>[Signature]</u>		<u>(LAC)</u>		<u>11/2/18</u>	<u>1210</u>	Temperature upon receipt: <u>4</u>			<u>Grab</u>		
Received by <u>[Signature]</u>		<u>MARIO SANTISTEBAN</u>		<u>(PLC)</u>	<u>11/2/18</u>	# of bottles agrees with COC? <u>Yes</u> No			<u>Comp</u>		
Relinquished by <u>[Signature]</u>		<u>MARIO SANTISTEBAN</u>		<u>(PLC)</u>	<u>11/2/18</u>	Samples intact? <u>Yes</u> No			<u>Matrix</u>		
Received by <u>[Signature]</u>						Samples properly preserved? <u>Yes</u> No			<u>AQ - Water</u>		
Relinquished by <u>[Signature]</u>						Samples in holding time? <u>Yes</u> No			<u>SO - Soil / Sludge</u>		
Received in lab by <u>[Signature]</u>		<u>PLC</u>		<u>11-2-18</u>	<u>1256</u>				<u>OT - Other</u>		
						Compliance Monitor			<u>Bottle Type</u>		
						Initial Flow _____			<u>P - Plastic</u>		
						Final Flow _____			<u>G - Amber Glass</u>		
									<u>VOA - 40 ml Vial</u>		
									<u>Coli - bacteria</u>		
									Preservations		
									HC - HCl		
									HS - H2SO4		
									HN - HNO3		
									HP - H3PO4		
									OH - NaOH		
									ST - Sodium Thiosulfate		
									AA - Ascorbic Acid		
									AI - AlCl3		
									Cu - CuSO4		

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Initial Flow _____
Final Flow _____



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PAT-CHEM
LABORATORIES

29 November 2018

Ed Maddox
LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles, CA 90063
RE: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF

Enclosed are the results of analyses for samples received by the Pat-Chem Laboratories (ELAP 1531) on 20-Nov-18 18:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

SAMPLE

Steve Jefferson
Laboratory Director



QUALITY ANALYTICAL SERVICES SINCE 1987

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PAT-CHEM
LABORATORIES

LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles CA, 90063

Project: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF
Project Number: Weekly
Project Manager: Ed Maddox

Reported:
29-Nov-18 17:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB - EP	18K0428-01	Water	20-Nov-18 14:37	20-Nov-18 18:25

SAMPLE

Pat-Chem Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Steve Jefferson, Laboratory Director



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PAT-CHEM
LABORATORIES

LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles CA, 90063

Project: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF
Project Number: Weekly
Project Manager: Ed Maddox

Reported:
29-Nov-18 17:07

SB - EP

Sample I.D.#: 18K0428-01 (Water) Date Sampled: 20-Nov-18 14:37 Sampled By: JS

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Pat-Chem Laboratories

Results Provided by Client

Residual Chlorine	<0.05	0.05	mg/l	1	AK82923	20-Nov-18	20-Nov-18	By Client
pH	6.8	0.1	pH Units	1	AK82923	20-Nov-18	20-Nov-18	By Client

General Inorganic Nonmetallic Chemistry by Standard Methods/EPA Methods

Ammonia as N	36.2	0.10	mg/l	25	AK82141	21-Nov-18	21-Nov-18	EPA 350.1
Biochemical Oxygen Demand	51	2	mg/l	1	AK82143	21-Nov-18	26-Nov-18	SM 5210B
Nitrate as N	30.0	0.50	mg/l	1	AK82135	21-Nov-18	21-Nov-18	EPA 353.2
Nitrite as N	6.00	0.20	mg/l	10	AK82135	21-Nov-18	21-Nov-18	EPA 353.2
Total Kjeldahl Nitrogen	2.2	0.50	mg/l	1	AK82635	26-Nov-18	27-Nov-18	EPA 351.2
Total Nitrogen	19.6	0.200	mg/l	25	[ALC]	26-Nov-18	27-Nov-18	[CALC]

General Physical Chemistry by Standard Methods/EPA Methods

Total Dissolved Solids	996	5	mg/l	1	AK82630	26-Nov-18	27-Nov-18	SM 2540C
Total Suspended Solids	11	1	mg/l	1	AK82145	21-Nov-18	21-Nov-18	SM 2540D
Turbidity	4.8	0.1	NTU	1	AK82131	21-Nov-18	21-Nov-18	EPA 180.1

Anions by EPA Method 300.0

Chloride	178	1.0	mg/l	50	AK82133	21-Nov-18	21-Nov-18	EPA 300.0
Sulfate as SO4	202	0.5	mg/l	50	AK82133	21-Nov-18	21-Nov-18	EPA 300.0

Microbiological Parameters by APHA Standard Methods

Enterococcus	2419.6	1.0	MPN/100 ml	1	AK82033	20-Nov-18	21-Nov-18	SM 9230D	>=
Fecal Coliforms	920.0	1.8	MPN/100 ml	1	AK82033	20-Nov-18	24-Nov-18	SM 9221E	
Total Coliforms	1600	1.8	MPN/100 ml	1	AK82033	20-Nov-18	24-Nov-18	SM 9221B	>=

Pat-Chem Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Steve Jefferson, Laboratory Director



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PAT-CHEM
LABORATORIES

LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles CA, 90063

Project: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF
Project Number: Weekly
Project Manager: Ed Maddox

Reported:
29-Nov-18 17:07

Notes and Definitions

>= Result was greater than or equal to the reported value.

RPD Relative Percent Difference

SAMPLE

Pat-Chem Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Steve Jefferson, Laboratory Director

Pat-Chem Laboratories
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San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 18K0420

Customer: Los Angeles County - ISD				Project: Surfrider Beach Effluent Weekly						
Address: 1102 N Eastern Ave.				Sampled by: <u>MARIO SANTISTEBAN</u>				P.O. #:		
Los Angeles, Ca 90062				Report Attention: Joel Sears JSears@isd.lacounty.org				Phone #: 323-267-2333		
Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab	
SB - EP	<u>11/20/18</u>	<u>1437</u>	2	Total & Fecal Coliforms & Enterococcus Cl2 res. = _____ mg/L	Grab	AQ	Coli	ST	pH = <u>6.8/24.7°C</u>	
SB - EP	↓	↓	4	TDS, TSS, Turbidity, BOD, Sulfate, Chloride, NO3-N & NO2-N & Total N	Grab	AQ	1L	4°C		
SB - EP	↓	↓	1	NH3-N	Grab	AQ	500 P	HS	Cl2 = <u>0</u> mg/L	
SAMPLE										
Total Flow										
CL-8532				pH Meter # <u>DRIVER # 3</u>						
Surfrider Lifeguard Station and Bathouse/ Comfort Station Global ID: WDR100001196										
Signature	Print Name (Company)	Date	Time	Sample Received Checklist			Sample Type		Preservations	
Relinquished by				Temperature upon receipt: <u>4</u>			<u>Grab</u>		HC - HCl	
Received by	<u>MARIO SANTISTEBAN</u>	<u>11/20/18</u>	<u>1504</u>	# of bottles agrees with COC? <u>Yes</u> No			<u>Comp</u>		HS - H2SO4	
Relinquished by	<u>MARIO SANTISTEBAN</u>	<u>11/20/18</u>	<u>1504</u>	Samples intact? <u>Yes</u> No			<u>Matrix</u>		HN - HNO3	
Received by	<u>MARIO SANTISTEBAN</u>	<u>11/20/18</u>	<u>1825</u>	Samples properly preserved? <u>Yes</u> No			<u>AQ - Water</u>		HP - H3PO4	
Relinquished by				Samples in holding time? <u>Yes</u> No			<u>SO - Soil / Sludge</u>		OH - NaOH	
Received in lab by	<u>PL</u>	<u>11-20-18</u>	<u>1825</u>				<u>OT - Other</u>		ST - Sodium Thiosulfate	
				Compliance Monitor			<u>Bottle Type</u>		AA - Ascorbic Acid	
				Initial Flow _____			<u>Plastic</u>		AI - AlCl3	
				Final Flow _____			<u>G - Amber Glass</u>		Cu - CuSO4	
							<u>VOA - 40 ml Vial</u>			
							<u>Coli - bacteria</u>			

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17



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PAT-CHEM
LABORATORIES

04 December 2018

Ed Maddox
LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles, CA 90063
RE: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF

Enclosed are the results of analyses for samples received by the Pat-Chem Laboratories (ELAP 1531) on 28-Nov-18 15:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

SAMPLE

Steve Jefferson
Laboratory Director



QUALITY ANALYTICAL SERVICES SINCE 1987

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San Fernando, CA 91340
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PAT-CHEM
LABORATORIES

LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles CA, 90063

Project: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF
Project Number: Weekly
Project Manager: Ed Maddox

Reported:
04-Dec-18 14:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB - EP	18K0555-01	Water	28-Nov-18 11:50	28-Nov-18 15:40

SAMPLE

Pat-Chem Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Steve Jefferson, Laboratory Director



QUALITY ANALYTICAL SERVICES SINCE 1987

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(818) 639-5306 fx
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PAT-CHEM
LABORATORIES

LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles CA, 90063

Project: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF
Project Number: Weekly
Project Manager: Ed Maddox

Reported:
04-Dec-18 14:51

SB - EP

Sample I.D.#: 18K0555-01 (Water)

Date Sampled: 28-Nov-18 11:50

Sampled By: MS of PCL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Pat-Chem Laboratories

Results Provided by Client

Residual Chlorine	<0.05	0.05	mg/l	1	AK82923	28-Nov-18	28-Nov-18	By Client
pH	7.1	0.1	pH Units	1	AK82923	28-Nov-18	28-Nov-18	By Client

General Inorganic Nonmetallic Chemistry by Standard Methods/EPA Methods

Ammonia as N	14.3	0.10	mg/l	5	AK83008	30-Nov-18	30-Nov-18	EPA 350.1
Biochemical Oxygen Demand	3	2	mg/l	1	AK82914	29-Nov-18	04-Dec-18	SM 5210B
Nitrate as N	56	2.50	mg/l	1	AK82908	29-Nov-18	29-Nov-18	EPA 353.2
Nitrite as N	2.0	0.10	mg/l	5	AK82908	29-Nov-18	29-Nov-18	EPA 353.2
Total Kjeldahl Nitrogen	3.4	0.50	mg/l	1	AK82910	29-Nov-18	30-Nov-18	EPA 351.2
Total Nitrogen	2.6	0.10	mg/l	125	[ALC]	29-Nov-18	30-Nov-18	[CALC]

General Physical Chemistry by Standard Methods/EPA Methods

Total Dissolved Solids	1080	5	mg/l	1	AK82915	29-Nov-18	30-Nov-18	SM 2540C
Total Suspended Solids	4	1	mg/l	1	AK82909	29-Nov-18	29-Nov-18	SM 2540D
Turbidity	2.8	0.1	NTU	1	AK82903	29-Nov-18	29-Nov-18	EPA 180.1

Anions by EPA Method 300.0

Chloride	241	1.0	mg/l	50	AK82904	29-Nov-18	29-Nov-18	EPA 300.0
Sulfate as SO4	199	0.5	mg/l	50	AK82904	29-Nov-18	29-Nov-18	EPA 300.0

Microbiological Parameters by APHA Standard Methods

Enterococcus	2419.6	1.0	MPN/100 ml	1	AK82825	28-Nov-18	29-Nov-18	SM 9230D	>
Fecal Coliforms	240.0	1.8	MPN/100 ml	1	AK82825	28-Nov-18	30-Nov-18	SM 9221E	
Total Coliforms	1600	1.8	MPN/100 ml	1	AK82825	28-Nov-18	30-Nov-18	SM 9221B	>=

Pat-Chem Laboratories

Steve Jefferson, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
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(818) 639-5306 fx
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PAT-CHEM
LABORATORIES

LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles CA, 90063

Project: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF
Project Number: Weekly
Project Manager: Ed Maddox

Reported:
04-Dec-18 14:51

Notes and Definitions

>= Result was greater than or equal to the reported value.

> Result was greater than reported value.

RPD Relative Percent Difference

SAMPLE

Pat-Chem Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Steve Jefferson, Laboratory Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 18K0555

Customer: Los Angeles County - ISD				Project: Surfrider Beach Effluent Monthly + Quarterly							
Address: 1102 N Eastern Ave. Los Angeles, Ca 90062				Sampled by: <u>MARIO SANTISTEBAN</u> Report Attention: Joel Sears JSears@isd.lacounty.org				P.O. #: Phone #: 323-267-2333			
Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab		
SB - EP	11/28/18	11:50	2	Total & Fecal Coliforms & Enterococcus Cl2 res.= mg/L	Grab	AQ	Coli	ST	pH = 7.1/22.7°C		
SB - EP	↓	↓	4	TDS, TSS, Turbidity, BOD, Sulfate, Chloride, NO3-N & NO2-N & Total N	Grab	AQ	1L	4°C			
SB - EP	↓	↓	1	NH3-N	Grab	AQ	500 P	HS	Cl2 = mg/L		
<h1>SAMPLE</h1>											
MONTHLY ONLY FROM APR-00											
Total Flow <u>6</u>											
CL-8532				pH Meter # _____							
Surfrider Lifeguard Station and Bathhouse/ Comfort Station Global ID: WDR100001196											
Signature		Print Name (Company)		Date	Time	Sample Received Checklist			Sample Type		Preservations
Relinquished by		LAC		11/28/18	11:59	Temperature upon receipt: <u>4</u>			Grab		HC - HCl
Received by		MARIO SANTISTEBAN (PL)		11/28/18	11:59	# of bottles agrees with COC? Yes No			Comp		HS - H2SO4
Relinquished by		MARIO SANTISTEBAN (PL)		11/28/18	1540	Samples intact? Yes No			Matrix		HN - HNO3
Received by						Samples properly preserved? Yes No			AQ - Water		HP - H3PO4
Relinquished by						Samples in holding time? Yes No			SO - Soil / Sludge		OH - NaOH
Received in lab by		PIL		11-28-18	1540	Compliance Monitor			OT - Other		ST - Sodium Thiosulfate
						Initial Flow <u>2405277</u>			Bottle Type		AA - Ascorbic Acid
						Final Flow <u>2405277</u>			P - Plastic		AI - AlCl3
									G - Amber Glass		Cu - CuSO4
									VOA - 40 ml Vial		
									Coli - bacteria		

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.



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PAT-CHEM
LABORATORIES

17 December 2018

Ed Maddox
LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles, CA 90063
RE: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF

Enclosed are the results of analyses for samples received by the Pat-Chem Laboratories (ELAP 1531) on 08-Dec-18 13:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

SAMPLE

Steve Jefferson
Laboratory Director



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QUALITY ANALYTICAL SERVICES SINCE 1987

PAT-CHEM
LABORATORIES

LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles CA, 90063

Project: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF
Project Number: Weekly
Project Manager: Ed Maddox

Reported:
17-Dec-18 13:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB - EP	18L0388-01	Water	08-Dec-18 13:00	08-Dec-18 13:00

SAMPLE

Pat-Chem Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Steve Jefferson, Laboratory Director



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PAT-CHEM
LABORATORIES

LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles CA, 90063

Project: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF
Project Number: Weekly
Project Manager: Ed Maddox

Reported:
17-Dec-18 13:51

SB - EP

Sample I.D.#: 18L0388-01 (Water)

Date Sampled: 08-Dec-18 13:00

Sampled By: MS of PCL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Pat-Chem Laboratories

Results Provided by Client

Residual Chlorine	<0.05	0.05	mg/l	1	AL81745	08-Dec-18	08-Dec-18	By Client
pH	6.4	0.1	pH Units	1	AL81745	08-Dec-18	08-Dec-18	By Client

General Inorganic Nonmetallic Chemistry by Standard Methods/EPA Methods

Ammonia as N	2.87	0.10	mg/l	1	AL81134	11-Dec-18	11-Dec-18	EPA 350.1
Biochemical Oxygen Demand	3	2	mg/l	1	AL80916	09-Dec-18	14-Dec-18	SM 5210B
Nitrate as N	53	1.00	mg/l	1	AL81036	10-Dec-18	10-Dec-18	EPA 353.2
Nitrite as N	0.00	0.20	mg/l	10	AL81036	10-Dec-18	10-Dec-18	EPA 353.2
Total Kjeldahl Nitrogen	30	50	mg/l	1	AL81030	10-Dec-18	11-Dec-18	EPA 351.2
Total Nitrogen	59.7	0.20	mg/l	50	[ALC]	10-Dec-18	11-Dec-18	[CALC]

General Physical Chemistry by Standard Methods/EPA Methods

Total Dissolved Solids	1112	5	mg/l	1	AL81032	10-Dec-18	13-Dec-18	SM 2540C
Total Suspended Solids	2	1	mg/l	1	AL81027	10-Dec-18	11-Dec-18	SM 2540D
Turbidity	2.4	0.1	NTU	1	AL80833	08-Dec-18	08-Dec-18	EPA 180.1

Anions by EPA Method 300.0

Chloride	173	1.0	mg/l	20	AL81031	10-Dec-18	10-Dec-18	EPA 300.0
Sulfate as SO4	160	0.5	mg/l	20	AL81031	10-Dec-18	10-Dec-18	EPA 300.0

Microbiological Parameters by APHA Standard Methods

Enterococcus	2419.6	1.0	MPN/100 ml	1	AL80828	08-Dec-18	09-Dec-18	SM 9230D
Fecal Coliforms	4.0	1.8	MPN/100 ml	1	AL80828	08-Dec-18	12-Dec-18	SM 9221E
Total Coliforms	1600	1.8	MPN/100 ml	1	AL80828	08-Dec-18	12-Dec-18	SM 9221B

Pat-Chem Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Steve Jefferson, Laboratory Director



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PAT-CHEM
LABORATORIES

LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles CA, 90063

Project: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF
Project Number: Weekly
Project Manager: Ed Maddox

Reported:
17-Dec-18 13:51

Notes and Definitions

RPD Relative Percent Difference

SAMPLE

Pat-Chem Laboratories

Steve Jefferson, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Environmental Sample

Phone (818) 639-5300
Fax (818) 639-5306

Sample I.D.#: 16L0308

Customer: Los Angeles County - ISD				Project: Surfrider Beach Effluent Weekly						
Address: 1102 N Eastern Ave.				Sampled by: MARIO SANTIESTEBAN						
Los Angeles, Ca 90062				Report Attention: Joel Sears JSears@isd.lacounty.org						
				P.O. #: 323-267-2333						
Sample Description		Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH Field Lab
SB - EP		12/8/18	1241	2	Total & Fecal Coliforms & Enterococcus	Grab	AQ	Coli	ST	pH = 6.38/20
SB - EP		↓	↓	4	Cl2 res.= mg/L TDS,TSS,Turbidity,BOD,Sulfate,	Grab	AQ	1L	4°C	
SB - EP		↓	↓	1	Chloride,NO3-N & NO2-N & Total N NH3-N	Grab	AQ	500 P	HS	Cl2 = 0 mg/L
SAMPLE										
Total Flow										
CL-8532					pH Meter #					
Surfrider Lifeguard Station and Bathuouse/										
Comfort Station Global ID: WDR100001196										
Signature		Print Name (Company)		Date	Time	Sample Received Checklist		Sample Type		Preservations
Relinquished by		MARIO SANTIESTEBAN (PCL)		12/8/18	1249	Temperature upon receipt: 4		Grab		HC - HCl
Received by		MARIO SANTIESTEBAN (PCL)		12/8/18	1249	# of bottles agrees with COC? Yes No		Comp		HS - H2SO4
Relinquished by		MARIO SANTIESTEBAN (PCL)		12/8/18	1357	Samples intact? Yes No		Matrix		HN - HNO3
Received by		MARIO SANTIESTEBAN (PCL)		12/8/18	1357	Samples properly preserved? Yes No		AQ - Water		HP - H3PO4
Relinquished by						Samples in holding time? Yes No		SO - Soil / Sludge		OH - NaOH
Received in lab by								OT - Other		ST - Sodium Thiosulfate
								Bottle Type		AA - Ascorbic Acid
								P - Plastic		AI - AlCl3
								G - Amber Glass		Cu - CuSO4
								VOA - 40 ml Vial		
								Coli - bacteria		

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Final Flow

Rev 2 Effective 5/1/17



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PAT-CHEM
LABORATORIES

02 January 2019

Ed Maddox
LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles, CA 90063
RE: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF

Enclosed are the results of analyses for samples received by the Pat-Chem Laboratories (ELAP 1531) on 17-Dec-18 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

SAMPLE

Steve Jefferson
Laboratory Director



QUALITY ANALYTICAL SERVICES SINCE 1987

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PAT-CHEM
LABORATORIES

LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles CA, 90063

Project: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF
Project Number: LAC-ISD, Surf Rider Beach Monthly & Qt
Project Manager: Ed Maddox

Reported:
02-Jan-19 14:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB - EP	18L0700-01	Water	17-Dec-18 14:20	17-Dec-18 16:00

SAMPLE

Pat-Chem Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Steve Jefferson, Laboratory Director



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PAT-CHEM
LABORATORIES

LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles CA, 90063

Project: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF
Project Number: LAC-ISD, Surf Rider Beach Monthly & Qt
Project Manager: Ed Maddox

Reported:
02-Jan-19 14:27

SB - EP

Sample I.D.#: 18L0700-01 (Water)

Date Sampled: 17-Dec-18 14:20

Sampled By: MS of PCL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Pat-Chem Laboratories

Results Provided by Client

Residual Chlorine	<0.05	0.05	mg/l	1	AL81745	17-Dec-18	17-Dec-18	By Client
pH	8.0	0.1	pH Units	1	AL81745	17-Dec-18	17-Dec-18	By Client

General Inorganic Nonmetallic Chemistry by Standard Methods/EPA Methods

Ammonia as N	0.86	0.10	mg/l	1	AL81830	18-Dec-18	18-Dec-18	EPA 350.1
Biochemical Oxygen Demand	5	2	mg/l	1	AL81829	18-Dec-18	23-Dec-18	SM 5210B
Nitrate as N	45	0.50	mg/l	1	AL81826	18-Dec-18	18-Dec-18	EPA 353.2
Nitrite as N	1.5	0.20	mg/l	10	AL81826	18-Dec-18	18-Dec-18	EPA 353.2
Organic Nitrogen	79	0.00	mg/l	[ALC]	18-Dec-18	27-Dec-18		Calc.
Total Kjeldahl Nitrogen	6.65	0.00	mg/l	5	AL81927	18-Dec-18	27-Dec-18	EPA 351.2
Total Nitrogen	53.6	0.20	mg/l	25	[CALC]	18-Dec-18	27-Dec-18	[CALC]

General Physical Chemistry by Standard Methods/EPA Methods

Total Dissolved Solids	1360	5	mg/l	1	AL81841	18-Dec-18	20-Dec-18	SM 2540C
Total Suspended Solids	8	1	mg/l	1	AL81837	18-Dec-18	19-Dec-18	SM 2540D
Turbidity	2.5	0.1	NTU	1	AL81824	18-Dec-18	18-Dec-18	SM 2130B

Anions by EPA Method 300.0

Chloride	156	1.0	mg/l	50	AL81825	18-Dec-18	18-Dec-18	EPA 300.0
Sulfate as SO4	145	0.5	mg/l	50	AL81825	18-Dec-18	18-Dec-18	EPA 300.0

Microbiological Parameters by APHA Standard Methods

E. Coli	540.0	1.8	MPN/100 ml	1	AL81744	17-Dec-18	21-Dec-18	SM 9221F
Enterococcus	2419.6	1.0	MPN/100 ml	1	AL81744	17-Dec-18	18-Dec-18	SM 9230D
Fecal Coliforms	540.0	1.8	MPN/100 ml	1	AL81744	17-Dec-18	21-Dec-18	SM 9221E
Total Coliforms	540.0	1.8	MPN/100 ml	1	AL81744	17-Dec-18	21-Dec-18	SM 9221B

Pat-Chem Laboratories

Steve Jefferson, Laboratory Director

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PAT-CHEM
LABORATORIES

LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles CA, 90063

Project: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF
Project Number: LAC-ISD, Surf Rider Beach Monthly & Qt
Project Manager: Ed Maddox

Reported:
02-Jan-19 14:27

Notes and Definitions

>= Result was greater than or equal to the reported value.

RPD Relative Percent Difference

SAMPLE

Pat-Chem Laboratories

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Steve Jefferson, Laboratory Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 1820700

Customer: Los Angeles County - ISD				Project: Surfrider Beach Effluent Weekly						
Address: 1102 N Eastern Ave.				Sampled by: <u>MARIO SANTIESTEBAN</u>				P.O. #:		
Los Angeles, Ca 90062				Report Attention: Joel Sears JSears@isd.lacounty.org				Phone #: 323-267-2333		
Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserv	Field Data (pH / Temperature) pH: Field Lab	
SB - EP	12/17/18	1420	2	Total & Fecal Coliforms & Enterococcus	Grab	AQ	Coli	ST	pH = 7.95/19.5°C	
SB - EP	↓	↓	4	Cl2 res.= mg/L TDS, TSS, Turbidity, BOD, Sulfate, Chloride, NO3-N & NO2-N & Total N	Grab	AQ	1L	4°C		
SB - EP	↓	↓	1	NH3-N	Grab	AQ	500 P	HS	Cl2 = 0 mg/L	
SAMPLE										
Total Flow <u>2409597 U.S. GALLONS</u>										
CL-8532				pH Meter #						
Surfrider Lifeguard Station and Bathhouse/ Comfort Station Global ID: WDR100001196										
Relinquished by	Signature	Print Name (Company)	Date	Time	Sample Received Checklist			Sample Type	Preservations	
Received by	<u>[Signature]</u>	<u>MARIO SANTIESTEBAN</u>	<u>12/17/18</u>	<u>1427</u>	Temperature upon receipt: <u>✓</u>			<u>Grab</u>	HC - HCl	
Relinquished by	<u>[Signature]</u>	<u>MARIO SANTIESTEBAN</u>	<u>12/17/18</u>	<u>1427</u>	# of bottles agrees with COC? <u>Yes</u> No			<u>Comp</u>	HS - H2SO4	
Received by	<u>[Signature]</u>	<u>MARIO SANTIESTEBAN</u>	<u>12/17/18</u>	<u>1545</u>	Samples intact? <u>Yes</u> No			<u>Matrix</u>	HN - HNO3	
Relinquished by	<u>[Signature]</u>	<u>MARIO SANTIESTEBAN</u>	<u>12/17/18</u>	<u>1545</u>	Samples properly preserved? <u>Yes</u> No			<u>AQ - Water</u>	HP - H3PO4	
Received in lab by	<u>[Signature]</u>	<u>PCU</u>	<u>12.17.18</u>	<u>16.00</u>	Samples in holding time? <u>Yes</u> No			<u>SO - Soil / Sludge</u>	OH - NaOH	
					Compliance Monitor			<u>OT - Other</u>	ST - Sodium Thiosulfate	
					Initial Flow			<u>Bottle Type</u>	AA - Ascorbic Acid	
					Final Flow			<u>P - Plastic</u>	AI - AlCl3	
								<u>G - Amber Glass</u>	Cu - CuSO4	
								<u>VOA - 40 ml Vial</u>		
								<u>Coli - bacteria</u>		

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17



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PAT-CHEM
LABORATORIES

08 January 2019

Ed Maddox
LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles, CA 90063
RE: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF

Enclosed are the results of analyses for samples received by the Pat-Chem Laboratories (ELAP 1531) on 27-Dec-18 13:22. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

SAMPLE

Steve Jefferson
Laboratory Director



QUALITY ANALYTICAL SERVICES SINCE 1987

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PAT-CHEM
LABORATORIES

LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles CA, 90063

Project: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF
Project Number: LAC-ISD, Surf Rider Beach Monthly & Qtly Effluent
Project Manager: Ed Maddox
Reported:
08-Jan-19 16:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB - EP	18L0885-01	Water	27-Dec-18 11:31	27-Dec-18 13:22

SAMPLE

Pat-Chem Laboratories

Steve Jefferson, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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PAT-CHEM
LABORATORIES

LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles CA, 90063

Project: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF
Project Number: LAC-ISD, Surf Rider Beach Monthly & Qtly Effluent **Reported:**
Project Manager: Ed Maddox 08-Jan-19 16:41

SB - EP

Sample I.D.#: 18L0885-01 (Water) Date Sampled: 27-Dec-18 11:31 Sampled By: MS of PCL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Pat-Chem Laboratories

Results Provided by Client

Residual Chlorine	<0.05	0.05	mg/l	1	AL81745	27-Dec-18	27-Dec-18	By Client
pH	7.7	0.1	pH Units	1	AL81745	27-Dec-18	27-Dec-18	By Client

General Inorganic Nonmetallic Chemistry by Standard Methods/EPA Methods

Ammonia as N	0.49	0.10	mg/l	1	AL83121	31-Dec-18	31-Dec-18	EPA 350.1
Biochemical Oxygen Demand	<2	2	mg/l	1	AL82811	28-Dec-18	02-Jan-19	SM 5210B
Nitrate as N	59.0	1.00	mg/l	50	AL82814	28-Dec-18	28-Dec-18	EPA 353.2
Nitrite as N	0.05	0.02	mg/l	1	AL82814	28-Dec-18	28-Dec-18	EPA 353.2
Organic Nitrogen	0.49	0.00	mg/l	[CALC]	02-Jan-19	03-Jan-19	Calc.	
Total Kjeldahl Nitrogen	0.94	0.00	mg/l	5	AL90214	02-Jan-19	03-Jan-19	EPA 351.2
Total Nitrogen	60.7	0.0200	mg/l	50	[CALC]	02-Jan-19	03-Jan-19	[CALC]

General Physical Chemistry by Standard Methods/EPA Methods

Total Dissolved Solids	976	5	mg/l	1	AA90209	02-Jan-19	03-Jan-19	SM 2540C
Total Suspended Solids	5	1	mg/l	1	AL82809	28-Dec-18	28-Dec-18	SM 2540D
Turbidity	2.3	0.1	NTU	1	AL82813	28-Dec-18	28-Dec-18	SM 2130B

Anions by EPA Method 300.0

Chloride	171	1.0	mg/l	50	AL82806	28-Dec-18	28-Dec-18	EPA 300.0
Sulfate as SO4	129	0.5	mg/l	50	AL82806	28-Dec-18	28-Dec-18	EPA 300.0

Microbiological Parameters by APHA Standard Methods

Enterococcus	2419.6	1.0	MPN/100 ml	1	AL82714	27-Dec-18	28-Dec-18	SM 9230D	>
Fecal Coliforms	1600	1.8	MPN/100 ml	1	AL82714	27-Dec-18	29-Dec-18	SM 9221E	>=
Total Coliforms	1600	1.8	MPN/100 ml	1	AL82714	27-Dec-18	29-Dec-18	SM 9221B	>=

Pat-Chem Laboratories

Steve Jefferson, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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(818) 639-5306 fx
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PAT-CHEM
LABORATORIES

LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles CA, 90063

Project: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF
Project Number: LAC-ISD, Surf Rider Beach Monthly & Qtly Effluent
Project Manager: Ed Maddox

Reported:
08-Jan-19 16:41

Notes and Definitions

>= Result was greater than or equal to the reported value.

> Result was greater than reported value.

RPD Relative Percent Difference

SAMPLE

Pat-Chem Laboratories

Steve Jefferson, Laboratory Director

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CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 18L0885

Customer: Los Angeles County - ISD				Project: Surfrider Beach Effluent Weekly						
Address: 1102 N Eastern Ave. Los Angeles, Ca 90062				Sampled by: <u>MARCO SANTIESTEBAN</u>				P.O. #:		
				Report Attention: Joel Sears JSears@isd.lacounty.org				Phone #: 323-267-2333		
Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserv	Field Data (pH / Temperature)	
SB - EP	12/27/18	1131	2	Total & Fecal Coliforms & Enterococcus	Grab	AQ	Coli	ST	pH = <u>7.7</u> / <u>24.7°C</u>	
SB - EP	↓	↓	4	Cl2 res. = mg/L TDS, TSS, Turbidity, BOD, Sulfate, Chloride, NO3-N & NO2-N & Total N	Grab	AQ	1L	4°C		
SB - EP	↓	↓	1	NH3-N	Grab	AQ	500 P	HS	Cl2 = <u>0</u> mg/L	
SAMPLE										
Total Flow <u>2713370 Gallons</u>										
CL-8532				pH Meter # <u>7</u>						
Surfrider Lifeguard Station and Bathhouse/ Comfort Station Global ID: WDR100001196										
Relinquished by	Signature	Print Name (Company)	Date	Time	Sample Received Checklist			Sample Type	Preservations	
Received by	<u>[Signature]</u>	<u>(LAC)</u>	<u>12/27/18</u>	<u>1150</u>	Temperature upon receipt: <u>4</u>			<u>Grab</u>	HC - HCl	
Relinquished by	<u>[Signature]</u>	<u>(PCL)</u>	<u>12/27/18</u>	<u>1150</u>	# of bottles agrees with COC? <u>Yes</u> No			<u>Comp</u>	HS - H2SO4	
Received by	<u>[Signature]</u>	<u>(PCL)</u>	<u>12/27/18</u>	<u>1322</u>	Samples intact? <u>Yes</u> No			<u>Matrix</u>	HN - HNO3	
Relinquished by	<u>[Signature]</u>	<u>(PCL)</u>	<u>12/27/18</u>	<u>1322</u>	Samples properly preserved? <u>Yes</u> No			<u>SO - Soil / Sludge</u>	HP - H3PO4	
Received in lab by	<u>[Signature]</u>	<u>(PCL)</u>	<u>12/27/18</u>	<u>1322</u>	Samples in holding time? <u>Yes</u> No			<u>OT - Other</u>	OH - NaOH	
					Compliance Monitor			<u>Bottle Type</u>	ST - Sodium Thiosulfate	
					Initial Flow			<u>P - Plastic</u>	AA - Ascorbic Acid	
					Final Flow			<u>G - Amber Glass</u>	AI - AlCl3	
								<u>VOA - 40 ml Vial</u>	Cu - CuSO4	
								<u>Coli - bacteria</u>		

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Final Flow

Rev 2 Effective 5/1/17



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08 January 2019

Ed Maddox
LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles, CA 90063
RE: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF

Enclosed are the results of analyses for samples received by the Pat-Chem Laboratories (ELAP 1531) on 31-Dec-18 13:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

SAMPLE

Steve Jefferson
Laboratory Director



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LABORATORIES

LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles CA, 90063

Project: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF
Project Number: LAC-ISD, Surf Rider Beach Monthly & Qtly Effluent
Project Manager: Ed Maddox

Reported:
08-Jan-19 16:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB - EP	18L0943-01	Water	31-Dec-18 09:36	31-Dec-18 13:35

SAMPLE

Pat-Chem Laboratories

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Steve Jefferson, Laboratory Director



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Project: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF
Project Number: LAC-ISD, Surf Rider Beach Monthly & Qtlly Effluent
Project Manager: Ed Maddox
Reported: 08-Jan-19 16:45

SB - EP

Sample I.D.#: 18L0943-01 (Water) Date Sampled: 31-Dec-18 09:36 Sampled By: MS of PCL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Pat-Chem Laboratories

Results Provided by Client

Residual Chlorine	<0.05	0.05	mg/l	1	AL81745	31-Dec-18	31-Dec-18	By Client
pH	7.7	0.1	pH Units	1	AL81745	31-Dec-18	31-Dec-18	By Client

General Inorganic Nonmetallic Chemistry by Standard Methods/EPA Methods

Ammonia as N	0.38	0.10	mg/l	1	AA90408	04-Jan-19	04-Jan-19	EPA 350.1
Biochemical Oxygen Demand	4	2	mg/l	1	AA90208	02-Jan-19	07-Jan-19	SM 5210B
Nitrate as N	53	1.00	mg/l	1	AA90215	02-Jan-19	02-Jan-19	EPA 353.2
Nitrite as N	0.02	0.20	mg/l	10	AA90215	02-Jan-19	02-Jan-19	EPA 353.2
Organic Nitrogen	55	0.00	mg/l	1	[ALC]	02-Jan-19	04-Jan-19	Calc.
Total Kjeldahl Nitrogen	59.2	0.00	mg/l	5	AA90214	02-Jan-19	03-Jan-19	EPA 351.2
Total Nitrogen	57.5	0.20	mg/l	50	[CALC]	02-Jan-19	03-Jan-19	[CALC]

General Physical Chemistry by Standard Methods/EPA Methods

Total Dissolved Solids	1044	5	mg/l	1	AA90209	02-Jan-19	03-Jan-19	SM 2540C
Total Suspended Solids	5	1	mg/l	1	AA90312	03-Jan-19	03-Jan-19	SM 2540D
Turbidity	1.1	0.1	NTU	1	AA90204	02-Jan-19	02-Jan-19	EPA 180.1

Anions by EPA Method 300.0

Chloride	147	1.0	mg/l	20	AA90320	03-Jan-19	04-Jan-19	EPA 300.0
Sulfate as SO4	119	0.5	mg/l	20	AA90320	03-Jan-19	04-Jan-19	EPA 300.0

Microbiological Parameters by APHA Standard Methods

Enterococcus	<1.0	1.0	MPN/100 ml	1	AL83123	31-Dec-18	01-Jan-19	SM 9230D	
Fecal Coliforms	1600	1.8	MPN/100 ml	1	AL83123	31-Dec-18	02-Jan-19	SM 9221E	>=
Total Coliforms	1600	1.8	MPN/100 ml	1	AL83123	31-Dec-18	02-Jan-19	SM 9221B	>=

Pat-Chem Laboratories

Steve Jefferson, Laboratory Director

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LABORATORIES

LAC-ISD, Los Angeles County
1102 N. Eastern Ave.
Los Angeles CA, 90063

Project: LAC-ISD, Surf Rider Beach Monthly & Quarterly EFF
Project Number: LAC-ISD, Surf Rider Beach Monthly & Qtly Effluent
Project Manager: Ed Maddox
Reported:
08-Jan-19 16:45

Notes and Definitions

>= Result was greater than or equal to the reported value.

RPD Relative Percent Difference

SAMPLE

Pat-Chem Laboratories

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Steve Jefferson, Laboratory Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 1820943

Customer: Los Angeles County - ISD				Project: Surfrider Beach Effluent Monthly + Quarterly					
Address: 1102 N Eastern Ave.				Sampled by: <u>M. SANTISTEBAN / A. OLMO</u>		P.O. #:			
Los Angeles, Ca 90062				Report Attention: <u>Joel Sears JSears@isd.lacounty.org</u>		Phone #: <u>323-267-2333</u>			
Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserv	Field Data (pH / Temperature) pH: Field Lab
SB - EP	<u>12/31/18</u>	<u>0900</u>	2	Total & Fecal Coliforms & Enterococcus	Grab	AQ	Coli	ST	pH = <u>7.71/17.4°C</u>
SB - EP	<u>↓</u>	<u>↓</u>	4	Cl2 res.= mg/L TDS, TSS, Turbidity, BOD, Sulfate,	Grab	AQ	1L	4°C	
SB - EP	<u>↓</u>	<u>↓</u>	1	Chloride, NO3-N & NO2-N & Total N NH3-N	Grab	AQ	500 P	HS	Cl2 = <u>0</u> mg/L
<h1>SAMPLE</h1>									
MONTHLY ONLY FROM APR-30									
Total Flow <u>2414874</u> US. Gallons									
CL-8532 pH Meter # _____									
Surfrider Lifeguard Station and Bathuouse/ Comfort Station Global ID: WDR100001196									
Signature		Print Name (Company)		Date	Time	Sample Received Checklist		Sample Type	
Relinquished by						Temperature upon receipt: <u>4</u>		Grab <u>Comp</u>	
Received by <u>[Signature]</u>		<u>Armando Olmos (Pat-Chem)</u>		<u>12/31/18</u>	<u>9:15</u>	# of bottles agrees with COC? <u>Yes</u> No		Matrix	
Relinquished by <u>[Signature]</u>		<u>Armando Olmos (Pat-Chem)</u>		<u>12/31/18</u>	<u>12:35</u>	Samples intact? <u>Yes</u> No		AQ - Water	
Received by						Samples properly preserved? <u>Yes</u> No		SO - Soil / Sludge	
Relinquished by						Samples in holding time? <u>Yes</u> No		OT - Other	
Received in lab by <u>[Signature]</u>		<u>PLK</u>		<u>12/31/18</u>	<u>1335</u>	Compliance Monitor		Bottle Type	
						Initial Flow _____		P - Plastic	
						Final Flow _____		G - Amber Glass	
								VOA - 40 ml Vial	
								Coli - bacteria	
								Preservations	
								HC - HCl	
								HS - H ₂ SO ₄	
								HN - HNO ₃	
								HP - H ₃ PO ₄	
								OH - NaOH	
								ST - Sodium Thiosulfate	
								AA - Ascorbic Acid	
								Al - AlCl ₃	
								Cu - CuSO ₄	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Groundwater Monitoring Report

For

**Surfrider Beach
(Compliance No. CI-8532/File No. 02-170)**

SAMPLE
Annual Report
2018

**Submitted by:
County of Los Angeles
Department of Beaches & Harbors
Operational Services Division
January 2019**

Surfrider Beach
Groundwater Monitoring Report
Compliance No. CI-8532
File No. 02-170

Facility Description

The County of Los Angeles Department of Beaches and Harbors (Department) owns and operates a bathhouse/comfort station, lifeguard stations, storage and parking at Surfrider County Beach. The facilities are located at 23060 W. Pacific Coast Highway.

There are a total of two exterior showers, ten toilets, four sinks, and six urinals on the site. Beach visitors utilize the showers to rinse off sand and seawater. The wastewater consists of normal domestic waste without any kitchen waste.

The Malibu Surfrider Beach restroom facility was upgraded in March 15, 2011. The installed enhanced septic system uses an Advantex System with one AX100 filter pod, 2 AX20 filter pods, a 2,500 gallon sand trap, and a 12,000 gallon primary/recirculation tank. A chlorination/de-chlorination unit, UV light and an Ozone Generator is used to disinfect the treated wastewater before it is sent to the dispersal field.

The facility elevation is approximately 17.5 feet above mean sea level. The groundwater table was located 16 feet below ground surface in October 2018. An estimated maximum of 2,250 gallons per day (gpd) of wastewater is generated at this facility.

This facility received a General Waste Discharge Requirement Permit (State Order No. 97-10-DWQ) from the Regional Water Quality Control Board on February 25, 2003. This order was amended January 12, 2011 to address the proposed modification to the existing standard septic tank and leachfield that had failed. The amended order included a site-specific Monitoring and Reporting Program (MRP) No. CI-8532 which amends the original February 25, 2003 MRP CI-8532.

A groundwater monitoring network plan and monitoring wells are required at this facility. The groundwater monitoring plan was submitted and approved. A schedule for groundwater monitoring well construction was submitted on December 12, 2003. The monitoring well construction at this site was completed and the well completion report was submitted to your office.

Population Estimate

The beach and restroom facilities are open from 7 a.m. until 10 p.m. daily. The reporting period for this annual report is January to December 2018.

Populations served by the beach restroom facilities vary considerably depending on weather conditions at the beach area. The County Lifeguards take daily tallies to determine the number of people that visit the beach area. Based on the limited records for the facility, number of beach visitors, and the standard usage of a beach restroom, it is estimated that approximately one-third of these beach goers may actually use the restroom facilities. The monthly populations that accessed Surfrider are as follows:

Month (2018)	Number of Beach Visitors
January	54,700
February	46,200
March	67,050
April	102,300

Surfrider Beach
Groundwater Monitoring Report
Compliance No. CI-8532
File No. 02-170

Month (2018)	Number of Beach Visitors
May	98,060
June	171,850
July	254,000
August	237,000
September	186,300
October	175,500
November	44,285
December	21,700

Discharge Volume

The County of Los Angeles Department of Public Works - Waterworks Division (Malibu Water District) supplies potable water to this facility.

The discharge volume for this facility varies considerably both seasonally and daily. The entire amount of water supplied to the lifeguard station by the Malibu Water District could potentially reach the septic system. However, since some of this water is supplied to the drinking fountains and hose bibs, the amount entering the septic system will be less than that supplied by the water district.

Average water usage and average and maximum waste flows recorded by the discharge meter located at this facility are summarized below.

Month	Average Water Usage (gpd)¹	Average/Max Waste Flow (gpd)²
January	627	255/648 ³
February	577	253/564
March	734	571/1,297
April	1116	682/1331
May	1450	440/2153
June	2268	994/2194
July	2,316	1,574/3,639
August	2,481	1,497/2,751
September	2,282	1,291/3,170
October	1,282	752/1,172
November	1,282	346/1,268
December	NA	293/544

NA – Not Available.

Surfrider Beach
Groundwater Monitoring Report
Compliance No. CI-8532
File No. 02-170

- ¹ Provided by Malibu Water District. Data available through November 27, 2018 only. Updated water use average for November and water use average for December will be provided in the 1st Quarter 2019 report.
- ² Calculated from the pump logs.
- ³ Data from January 1 – 16, 2018 corrupted due to numerous power faults which blanked out the logs.

Maintenance and Observations

The vendor, BioSolutions, provided system maintenance as required throughout the reporting period. Preventative, routine maintenance is conducted at Surfrider Beach on a quarterly cycle (please see attached maintenance reports).

The following summarizes waste removed at Malibu Surfrider Beach:

- 10,000 gallons of waste was removed May 21, 2018
- 2,000 gallons of waste was removed May 23, 2018

Waste was picked up and transported by Ocean Blue Environmental for disposal at Sanitation Districts of Los Angeles County – Joint Water Pollution Control Plant (JWPCP) located at 24501 South Figueroa Street in Carson, California.

Monitoring Program

Two groundwater monitoring points are available on site. One located northeast of the leach field (sampling point SB-1) and one located downstream of the leach field within the beach area (Monitoring Well SB-2). The locations of the monitoring wells were selected based on the known regional groundwater flow direction.

The facility permit requires quarterly sampling of the effluent before it enters the leach field and quarterly groundwater monitoring. In addition, the permit requires monthly sampling of the effluent for bacteria from April 1 to October 31 and weekly sampling for bacteria if concentrations exceed listed limits during any of the sampling events.

Effluent and groundwater samples were collected and analyzed by Pat-Chem Laboratories. All analyses were conducted at a laboratory certified for such analyses by the California Department of Health Services, and in accordance with USEPA guideline procedures or as specified in this Monitoring Report. Analytical results are summarized below.

Surfrider Beach
Groundwater Monitoring Report
Compliance No. CI-8532
File No. 02-170

Effluent Results¹:

<i>Analyte</i>	<i>SB-EP 4/23/18</i>	<i>SB-EP 5/23/18</i>	<i>SB-EP 6/21/18</i>	<i>SB-EP 7/24/18</i>	<i>SB-EP 8/27/18</i>	<i>SB-EP 9/11/18</i>	<i>SB-EP 10/23/18</i>
Residual Chlorine (mg/L)	0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
pH (pH Units)	7.8	7.4	7.5	8	7.2	7.5	7.3
Boron (mg/l)	NA	NA	NA	NA	0.16	0.18	
Ammonia -N (mg/l)	NA	NA	NA	NA	90.2	100	114
BOD ₅ 20°C (mg/L)	NA	NA	NA	NA	42	97	27
Nitrate - N (mg/L)	NA	NA	NA	NA	<0.02	<0.02	<0.20
Nitrite - N (mg/L)	NA	NA	NA	NA	0.08	0.07	0.80
Organic Nitrogen (mg/L)	NA	NA	NA	NA	26.2	74	49.8
Total Kjeldahl Nitrogen (mg/L)	NA	NA	NA	NA	116	174	164
Total Nitrogen (mg/L)	NA	NA	NA	NA	116²	174²	164
TDS (mg/L)	NA	NA	NA	NA	596	600	628
TSS (mg/L)	NA	NA	NA	NA	21	46	31
Turbidity (NTU)	NA	NA	NA	NA	16.4	27.1	17.0
Chloride (mg/L)	NA	NA	NA	NA	142	146	181
Sulfate as SO ₄ (mg/L)	NA	NA	NA	NA	50.2	26.8	85.9
E. Coli (MPN/100ml)	NA	NA	NA	NA	NA	NA	NA
Enterococcus (MPN/100ml)	436.6	2,419.6	2,419.6	2,419.60	2,419.60	2,419.60	2419.6
Fecal Coliform (MPN/100ml)	540.0		1600	1,600	1,600	1,600	1600
Total Coliform (MPN/100ml)	1600		1600	1,600	1,600	1,600	1600

<i>Analyte</i>	<i>SB-EP 11/2/18</i>	<i>SB-EP 11/29/18</i>	<i>SB-EP 12/8/18</i>	<i>SB-EP 12/18/18</i>	<i>SB-EP 12/17/18</i>	<i>SB-EP 12/27/18</i>	<i>SB-EP 12/31/18</i>
Residual Chlorine (mg/L)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
pH (pH Units)	8.5	6.8	6.1	6.4	8.0	7.7	7.7
Ammonia -N (mg/l)	NA	NA	NA	2.87	0.86	0.49	0.38
BOD ₅ 20°C (mg/L)	38	51	3	3	5	<2	4
Nitrate - N (mg/L)	6.89	30.8	56.8	53.0	45.8	59.4	53.0
Nitrite - N (mg/L)	0.92	6.50	2.40	0.40	1.15	0.35	0.52
Organic Nitrogen (mg/L)	71.0	6 ³	<0 ³	3.43 ³	5.79	0.449	3.55
Total Kjeldahl Nitrogen (mg/L)	125	42.2	13.4	6.30	6.65	0.94	3.92
Total Nitrogen (mg/L)	133	79.6	72.6	59.7	53.6	60.7	57.5
TDS (mg/L)	3692	996	1080	1112	1360	976	1044
TSS (mg/L)	125	11	4	2	8	5	5
Turbidity (NTU)	143	4.8	2.8	2.4	2.5	2.3	1.1
Chloride (mg/L)	240	178	241	173	156	171	147
Sulfate as SO ₄ (mg/L)	111	202	199	160	145	129	119
E. Coli (MPN/100ml)	NA	NA	NA	NA	540.0	NA	NA
Enterococcus (MPN/100ml)	2419.6	2419.6	2419.6	2419.6	2419.6	2419.6	<1.0
Fecal Coliform (MPN/100ml)	220	920	240.0	4.0	540.0	1600	1600
Total Coliform (MPN/100ml)	1600	1600	1600	1600	540.0	1600	1600

Bold values highlighted that could result in a permit exceedance if not addressed with modifications/repairs to the treatment system.

NA - Not Analyzed

¹ Effluent samples were not collected 1st Quarter 2018 due to a mix up with laboratory services.

² Calculated value not reported by laboratory. Total Nitrogen = Total Kjeldahl Nitrogen + Nitrate + Nitrite.

³ Calculated value not reported by laboratory. Organic Nitrogen = Total Kjeldahl Nitrogen – Ammonia.

Surfrider Beach
Groundwater Monitoring Report
Compliance No. CI-8532
File No. 02-170

Effluent Results - 2019:

Analyte	SB-EP 01/08/19	SB-EP 01/07/19	SB-EP 01/25/19	SB-EP 02/01/19	SB-EP 02/08/19	SB-EP 02/15/19	SB-EP 02/22/19
Residual Chlorine (mg/L)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
pH (pH Units)	7.6	7.5	7.6	8.4	8.2	8.2	8.1
Ammonia -N (mg/l)	0.25	0.30	0.47	<0.10	<0.10	0.28	<0.10
BOD ₅ 20°C (mg/L)	7	<2	<2	4	<2	<2	<2
Nitrate - N (mg/L)	59.5	52.5	49.2	38.0	41.0	38.0	37.2
Nitrite - N (mg/L)	0.12	0.24	0.24	<0.10	<0.10	<0.10	<0.10
Organic Nitrogen (mg/L)	0.0890	1.91	2.14	1.11	0.392	0.916	0.475
Total Kjeldahl Nitrogen (mg/L)	0.34	2.21	2.61	1.11	0.39	1.20	0.48
Total Nitrogen (mg/L)	60.0	54.9	52.1	39.1	41.4	39.2	37.7
TDS (mg/L)	1088	1044	1016	1748	1856	1752	1580
TSS (mg/L)	4	2	4	8	1	2	1
Turbidity (NTU)	1.2	2.2	2.1	13.1	1.4	1.4	1.6
Chloride (mg/L)	177	196	3.8	555	498	486	458
Sulfate as SO ₄ (mg/L)	134	135	2.5	162	176	177	160
Enterococcus (MPN/100ml)	579.4	59.1	387.3	<1.0	<1.0	<1.0	<1.0
Fecal Coliform (MPN/100ml)	33.0	170.0	70	<1.8	<1.8	16.0	<1.8
Total Coliform (MPN/100ml)	49.0	240.0	540.0	<1.8	<1.8	23.0	<1.8

Bold values highlighted that could result in a permit exceedance if not addressed with modifications/repairs to the treatment system.

Groundwater Results - 2018:

Analyte	SB-EP 1st Qtr	SB-EP 2nd Qtr	SB1 9/2/18	SB2 9/26/18	SB1 10/26/18	SB2 10/26/18	SB1 12/31/18	WDR 97- 10-DWQ
Residual Chlorine (mg/L)	NS	NS	<0.05	Dry	<0.05	Dry	<0.05	8
pH (pH Units)	NS	NS	7.6	Dry	7.6	Dry	7.7	6-9
Boron (mg/l)	NS	NS	0.33	Dry	NA	Dry	NA	
Ammonia -N (mg/l)	NS	NS	<0.10	Dry	<0.10	Dry	0.12	2.4
Nitrate - N (mg/L)	NS	NS	1.63	Dry	1.53	Dry	3.02	<10
Nitrite - N (mg/L)	NS	NS	<0.02	Dry	0.04	Dry	0.03	<1.0
Organic Nitrogen (mg/L)	NS	NS	0.142	Dry	0.61 ¹	Dry	0 ¹	
Total Kjeldahl Nitrogen (mg/L)	NS	NS	0.14	Dry	0.61	Dry	0.12	
Total Nitrogen (mg/L)	NS	NS	1.77	Dry	2.18	Dry	3.17	10
TDS (mg/L)	NS	NS	676	Dry	564	Dry	620	
TSS (mg/L)	NS	NS	NA	Dry	<1	Dry	NA	30
Chloride (mg/L)	NS	NS	177	Dry	143	Dry	106	
Sulfate as SO ₄ (mg/L)	NS	NS	106	Dry	112	Dry	130	
E. Coli (MPN/100ml)	NS	NS		Dry		Dry		
Enterococcus (MPN/100ml)	NS	NS	3.0	Dry	3.1	Dry	172.6	35/104
Fecal Coliform (MPN/100ml)	NS	NS	2.2	Dry	<1.1	Dry	6.9	200/400
Total Coliform (MPN/100ml)	NS	NS	3.6	Dry	<1.1	Dry	23.0	70/230

NA – Not Analyzed

NS – Not Sampled 1st and 2nd Quarter 2018 due to a mix up with laboratory services.

¹ Calculated value not reported by laboratory. Organic Nitrogen = Total Kjeldahl Nitrogen – Ammonia.

Graphical plots of concentration versus time are attached for select analytes.

Summary of Non-Compliance

The Surfrider permit states, “Effluent shall be monitored based on the frequency, and shall not contain constituents in excess of the following effluent limitations, or cause the receiving water

Surfrider Beach
Groundwater Monitoring Report
Compliance No. CI-8532
File No. 02-170

to exceed the following limitations detailed in Table 1 below.”. Our interpretation of this statement, supported by the RWQCBs April 27, 2010 response to the County’s March 31, 2010 response to a March 1, 2010 NOV at Topanga that dropped the violation for an enterococcus exceedance in the effluent, is that the limits provided in the permit are applicable to receiving water (groundwater) and not effluent.

Results of required groundwater monitoring samples were reported to be in compliance with permit limits in the 2018 Quarterly Reports. However, it is noted that enterococcus exceeded groundwater limits in a monitoring well sample collected December 31, 2018¹. The restroom was closed January 25th, 2019 as a result of the observed exceedance of enterococcus in groundwater. Portable toilets have been placed at Surfrider until the exceedances are resolved.

Results of the required effluent samples exceeded water quality objectives, with the exception of residual chlorine and pH, during one or more of the 2018 sampling events. Weekly effluent sampling for bacteria was generally performed starting in November 2018 because of the observed bacteria exceedances. It is noted that sampling activities were restricted due to the Woolsey fire which began November 8, 2018. Weekly sampling for all analytes exceeding permit limits will continue until two consecutive readings are below permit limits.

BioSolutions was notified of the elevated levels observed in the effluent samples. BioSolutions repaired the chlorination unit which was damaged by burrowing rodents and rebuilt the UV unit on October 12, 2018. BioSolutions met with Pat-Chem sampling personnel in January 2019 and verified that samples were being collected at the correct location. BioSolutions installed a floating chlorinator on January 23, 2019 to assess potential re-growth of bacteria since there isn’t a lot of movement through the basin.

Modifications made to the treatment system appears to have addressed the majority of the elevated readings in the effluent samples. Monitoring well data is pending and will be reviewed upon receipt to assess the influence of the treatment system modifications on the observed enterococcus exceedance. An update will be provided in the 1st Quarter 2019 Report.

¹ Monitoring results were received from Pat-Chem January 23, 2019, after the 4th Quarter Report was submitted to Geotracker.

Certification Statement

"I certify under penalty of law that this document, including all attachments and supplemental information, was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment."

Executed on the 28th day of March, 2019 at Los Angeles, California



John Carey Skinner
Administrative Services Manager I, Operational Services Division
Attachment

SAMPLE

Maintenance Records

SAMPLE

Biosolutions Maintenance Inspection Sheet

Location: SurfRider Date: 9/4/18 Gate Codes: _____

Inspected By: Abanti + Trevor Time In: _____ Time Out: _____ System Type: _____

ST #1	Primary	Sludge	Scum	Water Depth	Lids (OK)	Inlet/Cross Over	Riser (OK)	Epoxy (OK)	Bolts (Y or N)
	Baffle								
	Secondary								
RT #2	Primary	30"	12"	X	OK	✓	OK	OK	yes
	Baffle								
	Secondary	30"	12"	X	OK	✓	OK	OK	yes

Floats Checked (All) ST Circle If OK 1, 2, 3, 4, 5

RT Circle If OK 1 2 3 4 5

Splitter Valve Checked/Cleaned

☐ Done

Splitter Valve Height

If no splitter valve used at this site please check here:

☐ No Splitter valve

ST Filters Cleaned ☐ Done
 RT Filters Cleaned ☒ Done
 RT Hydrotec Disc Checked ☐ Done

Pumps Pulled and Cleaned ☐ Done
Pumps Pulled and Cleaned ☐ Done
Hydrotec Opened & Cleaned ☐ Done

Splice Box Checked ☐ Done
Splice Box Checked ☒ Done

AX Pod 1 Serial# Laterals Flushed ☐ Done Orifices Checked ☐ Done Carbon Vent Changed ☐ Done Squirt Height _____

AX Pod 2 Serial# Laterals Flushed ☐ Done Orifices Checked ☐ Done Carbon Vent Changed ☐ Done Squirt Height _____

AX Pod 3 Serial# Laterals Flushed ☐ Done Orifices Checked ☐ Done Carbon Vent Changed ☐ Done Squirt Height _____

AX Pod 4 Serial# Laterals Flushed ☐ Done Orifices Checked ☐ Done Carbon Vent Changed ☐ Done Squirt Height _____

AX 100 Serial# 411905 Laterals Flushed ☒ Done Orifices Checked ☒ Done Carbon Vent Changed ☒ Done Pressure (ft) 4.15

AX 100 Serial# 411966 Laterals Flushed ☒ Done Orifices Checked ☒ Done Carbon Vent Changed ☒ Done Pressure (ft) 23"

411967

If System is left Activated Check all boxes below

All Pump Circuit Breakers ON ☒ Done
 Controls Circuit Breaker ON ☒ Done
 Phone Lines Connected ☒ Done
 Splitter Valve Reinstalled ☒ Done
 Floats Installed Properly ☒ Done
 All Lids bolted Down ☒ Done

System Odors

Pods ☐ Yes ☒ No
 Tanks ☐ Yes ☒ No
 Dispersal ☐ Yes ☒ No

Technician Signatures: _____

Biosolutions Maintenance Inspection Sheet

Location: SurfRoad Date: 4/9/18 Gate Codes: _____

Inspected By: Accountant Time In: _____ Time Out: _____ System Type: _____

DT #1	Primary	Sludge	Scum	Water Depth	Lids (OK)	Inlet/Cross Over	Riser (OK)	Epoxy (OK)	Bolts (Y or N)
	Baffle	<u>W</u>	<u>0</u>	<u>X</u>	<u>OK</u>	<u>✓</u>	<u>OK</u>	<u>OK</u>	<u>YES</u>
	Secondary								
Tank #4	Primary								
	Baffle								
	Secondary								

DT Filters Cleaned ☐ Done Pumps Pulled and Cleaned ☐ Done Splice Box Checked ☐ Done
 Tank #4 Filters Cleaned ☐ Done Pumps Pulled and Cleaned ☐ Done Splice Box Checked ☐ Done

Floats Checked (All) DT Circle If OK 1 2 3 4 5

	Manual Check (OK)	Amps	Volts	Returned to automatic (Yes)
Pump 1		<u>6.04</u>	<u>243</u>	
Pump 2		<u>3.52</u>	<u>242</u>	
Pump 3		<u>7.20</u>	<u>247</u>	
Pump 4		<u>7.01</u>	<u>240</u>	
Blower 1				

Tank 4 Circle If OK 1, 2, 3, 4, 5

	Manual Check (OK)	Amps	Volts	Returned to automatic (Yes)
Pump 5		<u>5.36</u>	<u>235</u>	
Pump 6		<u>5.48</u>	<u>238</u>	
Pump 7		<u>11.37</u>	<u>234</u>	
Pump 8		<u>11.52</u>	<u>233</u>	
Blower 2				

AC Power to Panel ☒ OK
 Circuit Breakers ☒ OK
 Heart Beat ☐ OK
 Audible Alarm ☒ OK
 Alarm Light ☒ OK

Phone Line ☒ OK

UL: BY 709669
 RTU:
 Phone Number: 310-312-8719

Dispersal Check: Flush Valve, Zone or Pit	(OK)
Zone 1, Valve 1 or Pit 1	
Zone 2, Valve 2 or Pit 2	
Zone 3, Valve 3 or Pit 3	
Zone 4, Valve 4 or Pit 4	
Zone 5, Valve 5 or Pit 5	
Zone 6, Valve 6 or Pit 6	
Zone 7, Valve 7 or Pit 7	
Zone 8, Valve 8 or Pit 8	
Zone 9, Valve 9 or Pit 9	
Zone 10, Valve 10 or Pit 10	

Chlor/Dechlor chamber pulled and cleaned ☐ Done
Chlor/Dechlor added ☐ Done
UV frame pulled and cleaned ☐ Done
UV bulb inspected ☐ Done
Headworks inspected and spin filter cleaned ☐ Done

Technician Signatures:

Jsh

If Advantex, Fill in Sample Results Below:

DO _____
 pH _____
 Turbidity _____
 Ammonia _____
 Nitrates _____
 Nitrites _____
 Alkalinity _____

Biosolutions Maintenance Inspection Sheet

Location: Surf Rider Date: 7-16-18 Gate Codes: _____

Inspected By: Avant & Rob Time In: _____ Time Out: _____ System Type: _____

ST #1	Primary	Sludge	Scum	Water Depth	Lids (OK)	Inlet/Cross Over	Riser (OK)	Epoxy (OK)	Bolts(Y or N)
	Baffle								
	Secondary								
RT #2	Primary	"8"	"4"	X	OK	X	OK	OK	Yes
	Baffle								
	Secondary	"4"	"0"	X	OK	X	OK	OK	Yes

Floats Checked(All) ST Circle if OK 1, 2, 3, 4, 5RT Circle if OK 1, 2, 3, 4, 5**Splitter Valve Checked/Cleaned**☐ Done**Splitter Valve Height**

If no splitter valve used at this site please check here:

☐ No Splitter valve

<input checked="" type="checkbox"/> IT	<u>Filters Cleaned</u>	<input type="checkbox"/> Done	<u>Pumps Pulled and Cleaned</u>	<input type="checkbox"/> Done	<u>Splice Box Checked</u>	<input type="checkbox"/> Done
<input checked="" type="checkbox"/> IT	<u>Filters Cleaned</u>	<input checked="" type="checkbox"/> Done	<u>Pumps Pulled and Cleaned</u>	<input type="checkbox"/> Done	<u>Splice Box Checked</u>	<input checked="" type="checkbox"/> Done
<input checked="" type="checkbox"/> IT	<u>Hydrotec Disc Checked</u>	<input type="checkbox"/> Done	<u>Hydrotec Opened & Cleaned</u>	<input type="checkbox"/> Done		

<u>X Pod 1 Serial# 911966</u>	Laterals Flushed <input checked="" type="checkbox"/> Done	Orifices Checked <input checked="" type="checkbox"/> Done	Carbon Vent Changed <input checked="" type="checkbox"/> Done	Squirt Height <u>20"</u>
<u>X Pod 2 Serial# 911967</u>	Laterals Flushed <input checked="" type="checkbox"/> Done	Orifices Checked <input checked="" type="checkbox"/> Done	Carbon Vent Changed <input checked="" type="checkbox"/> Done	Squirt Height <u>20"</u>
<u>X Pod 3 Serial#</u>	Laterals Flushed <input type="checkbox"/> Done	Orifices Checked <input type="checkbox"/> Done	Carbon Vent Changed <input type="checkbox"/> Done	Squirt Height _____
<u>X Pod 4 Serial#</u>	Laterals Flushed <input type="checkbox"/> Done	Orifices Checked <input type="checkbox"/> Done	Carbon Vent Changed <input type="checkbox"/> Done	Squirt Height _____
<u>X 100 Serial# 911965</u>	Laterals Flushed <input type="checkbox"/> Done	Orifices Checked <input type="checkbox"/> Done	Carbon Vent Changed <input type="checkbox"/> Done	Pressure _____
<u>X 100 Serial#</u>	Laterals Flushed <input type="checkbox"/> Done	Orifices Checked <input type="checkbox"/> Done	Carbon Vent Changed <input type="checkbox"/> Done	Pressure _____

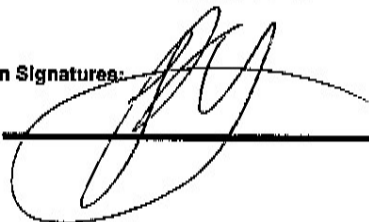
System is left Activated Check all boxes below

- All Pump Circuit Breakers ON ☒ Done
- Controls Circuit Breaker ON ☒ Done
- Phone Lines Connected ☒ Done
- Splitter Valve Reinstalled ☒ Done
- Floats Installed Properly ☒ Done
- All Lids bolted Down ☒ Done

System Odors

- ☐ Yes ☒ No
- Pods ☐ Yes ☒ No
- Tanks ☐ Yes ☒ No
- Dispersal ☐ Yes ☒ No

Technician Signatures: _____



Biosolutions Maintenance Inspection SheetLocation: Surf RiderDate: 7-16-18

Gate Codes:

Inspected By: Avantix Rob

Time In:

Time Out:

System Type:

DT #1 Primary
Baffle
Secondary

Tank #4 Primary
Baffle
Secondary

Sludge	Scum	Water Depth	Lids (OK)	Inlet/Cross Over	Riser (OK)	Epoxy (OK)	Bolts (Y or N)
<u>20"</u>	<u>0</u>	<u>X</u>	<u>OK</u>	<u>✓</u>	<u>NK</u>	<u>OK</u>	<u>yes</u>

DT Filters Cleaned

Tank #4 Filters Cleaned

☐ Done☐ Done

Pumps Pulled and Cleaned

Pumps Pulled and Cleaned

☐ Done☐ Done

Splice Box Checked

Splice Box Checked

☐ Done☐ DoneFloats Checked (All) DT Circle if OK 0000 5

Manual Check (OK)	Amps	Volts	Returned to automatic (Yes)
<u>OK</u>	<u>5.92</u>	<u>230</u>	<u>yes</u>
<u>OK</u>	<u>5.92</u>	<u>240</u>	<u>yes</u>
<u>OK</u>	<u>6.86</u>	<u>230</u>	<u>yes</u>
<u>OK</u>	<u>6.74</u>	<u>230</u>	<u>yes</u>

Tank 4 Circle if OK 1, 2, 3, 4, 5

Manual Check (OK)	Amps	Volts	Returned to automatic (Yes)
<u>OK</u>	<u>7.50</u>	<u>235</u>	<u>yes</u>
<u>OK</u>	<u>5.31</u>	<u>240</u>	<u>yes</u>
<u>OK</u>	<u>11.50</u>	<u>240</u>	<u>yes</u>
<u>OK</u>	<u>11.32</u>	<u>232</u>	<u>yes</u>

AC Power to Panel

Circuit Breakers

Heart Beat

Audible Alarm

Alarm Light

☒ OK

☒ OK

☒ OK

☒ OK

☒ OK

Phone Line

UL: BY-69669

RTU:

Phone Number: (510) 517 8719

Dispersion Check: Flush Valve, Zone or Pit

(OK)

Zone 1, Valve 1 or Pit 1

Zone 2, Valve 2 or Pit 2

Zone 3, Valve 3 or Pit 3

Zone 4, Valve 4 or Pit 4

Zone 5, Valve 5 or Pit 5

Zone 6, Valve 6 or Pit 6

Zone 7, Valve 7 or Pit 7

Zone 8, Valve 8 or Pit 8

Zone 9, Valve 9 or Pit 9

Zone 10, Valve 10 or Pit 10

Chlor/Dechlor chamber pulled and cleaned

Chlor/Dechlor added

UV frame pulled and cleaned

UV bulb inspected

Headworks inspected and spin filter cleaned

☐ Done

☐ Done

☐ Done

☐ Done

☐ Done

Technician Signatures:



If Advantex, Fill In Sample Results Below:

DO

pH

Turbidity

Ammonia

Nitrates

Nitrites

Alkalinity

Biosolutions Maintenance Inspection Sheet

Location: Surfnder Date: 10-12-18 Gate Codes:

Inspected By: AVANTI + MICHAEL Time In: Time Out: System Type:

ST #1	Primary	Sludge	Scum	Water Depth	Lids (OK)	Inlet/Cross Over	Riser (OK)	Epoxy (OK)	Bolts(Y or N)
	Baffle	20"	3"		OK		OK	OK	Y
	Secondary	18"	2"		OK		OK	OK	Y
RT #2	Primary	16"	2"		OK		OK	OK	Y
	Baffle								
	Secondary	14"	2"		OK		OK	OK	Y

Floats Checked(All) ST Circle if OK 1 2 3 4 5

RT Circle if OK 0 1 2 3 4 5

Splitter Valve Checked/Cleaned

☐ Done

Splitter Valve Height

If no splitter valve used at this site please check here:

☐ No Splitter valve

ST Filters Cleaned ☒ Done Pumps Pulled and Cleaned ☐ Done Splice Box Checked ☒ Done
 RT Filters Cleaned ☒ Done Pumps Pulled and Cleaned ☐ Done Splice Box Checked ☒ Done
 RT Hydrotec Disc Checked ☐ Done Hydrotec Opened & Cleaned ☐ Done

XX Pod 1 Serial# 411966 Laterals Flushed ☒ Done Orifices Checked ☒ Done Carbon Vent Changed ☒ Done Squirt Height
XX Pod 2 Serial# 411967 Laterals Flushed ☒ Done Orifices Checked ☒ Done Carbon Vent Changed ☒ Done Squirt Height
XX Pod 3 Serial# Laterals Flushed ☐ Done Orifices Checked ☐ Done Carbon Vent Changed ☐ Done Squirt Height
XX Pod 4 Serial# Laterals Flushed ☐ Done Orifices Checked ☐ Done Carbon Vent Changed ☐ Done Squirt Height
XX 100 Serial# 411965 Laterals Flushed ☒ Done Orifices Checked ☒ Done Carbon Vent Changed ☒ Done Squirt Height
XX 100 Serial# Laterals Flushed ☐ Done Orifices Checked ☐ Done Carbon Vent Changed ☐ Done Squirt Height

System is left Activated Check all boxes below

All Pump Circuit Breakers ON ☒ Done
 Controls Circuit Breaker ON ☒ Done
 Phone Lines Connected ☒ Done
 Splitter Valve Reinstalled ☒ Done
 Floats Installed Properly ☒ Done
 All Lids bolted Down ☒ Done

System Odors

Pods ☐ Yes ☒ No
 Tanks ☐ Yes ☒ No
 Dispersal ☐ Yes ☒ No

Technician Signatures:

Biosolutions Maintenance Inspection Sheet

Location: Sunbriker Date: 10-12-18 Gate Codes: _____

Inspected By: A. Kipp & Michael Time In: _____ Time Out: _____ System Type: _____

DT #1	Primary	Sludge	Scum	Water Depth	Lids (OK)	Inlet/Cross Over	Riser (OK)	Epoxy (OK)	Bolts (Y or N)
	Baffle	<u>4</u>	<u>0</u>	<u>✓</u>	<u>OK</u>	<u>✓</u>	<u>OK</u>	<u>OK</u>	<u>yes</u>
	Secondary								
Tank #4	Primary								
	Baffle								
	Secondary								

DT Filters Cleaned ☐ Done Pumps Pulled and Cleaned ☐ Done Splice Box Checked ☒ Done
 Tank #4 Filters Cleaned ☐ Done Pumps Pulled and Cleaned ☐ Done Splice Box Checked ☐ Done

Floats Checked (All) DT Circle If OK (1)(2)(3)(4)5

	Manual Check (OK)	Amps	Volts	Returned to automatic (Yes)
Pump 1	<u>OK</u>	<u>6.07</u>	<u>240</u>	<u>yes</u>
Pump 2	<u>OK</u>	<u>6.13</u>	<u>240</u>	<u>yes</u>
Pump 3	<u>OK</u>	<u>7.33</u>	<u>240</u>	<u>yes</u>
Pump 4	<u>OK</u>	<u>7.16</u>	<u>240</u>	<u>yes</u>
Blower 1				

Tank 4 Circle If OK (1)(2)(3)(4)5

	Manual Check (OK)	Amps	Volts	Returned to automatic (Yes)
Pump 5	<u>OK</u>	<u>5.48</u>	<u>240</u>	<u>yes</u>
Pump 6	<u>OK</u>	<u>5.61</u>	<u>240</u>	<u>yes</u>
Pump 7	<u>OK</u>	<u>11.55</u>	<u>240</u>	<u>yes</u>
Pump 8	<u>OK</u>	<u>11.64</u>	<u>240</u>	<u>yes</u>
Blower 2				

AC Power to Panel ☒ OK
 Circuit Breakers ☒ OK
 Heart Beat ☒ OK
 Audible Alarm ☒ OK
 Alarm Light ☒ OK

Phone Line ☒ OK

UL: BY709669
 RTU: _____
 Phone Number: 310 317 8719

Chlor/Dechlor chamber pulled and cleaned ☐ Done
 Chlor/Dechlor added ☐ Done
 UV frame pulled and cleaned ☐ Done
 UV bulb inspected ☐ Done
 Headworks inspected and spin filter cleaned ☐ Done

Technician Signatures: AK

Dispersal Check: Flush Valve, Zone or Pit	(OK)
Zone 1, Valve 1 or Pit 1	
Zone 2, Valve 2 or Pit 2	
Zone 3, Valve 3 or Pit 3	
Zone 4, Valve 4 or Pit 4	
Zone 5, Valve 5 or Pit 5	
Zone 6, Valve 6 or Pit 6	
Zone 7, Valve 7 or Pit 7	
Zone 8, Valve 8 or Pit 8	
Zone 9, Valve 9 or Pit 9	
Zone 10, Valve 10 or Pit 10	

If Advantex, Fill In Sample Results Below:

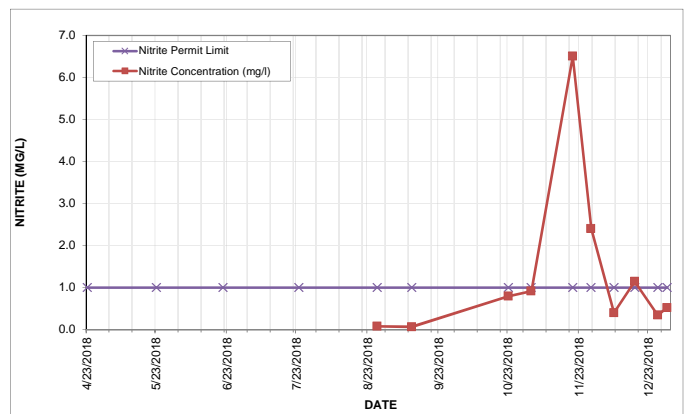
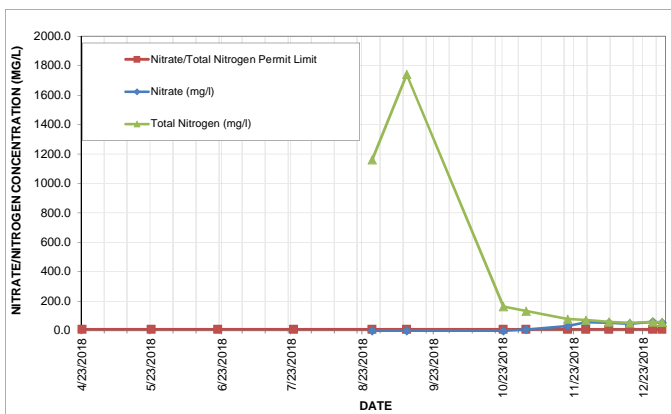
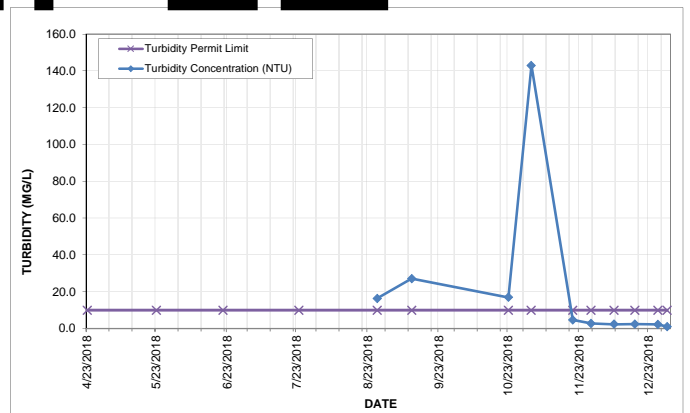
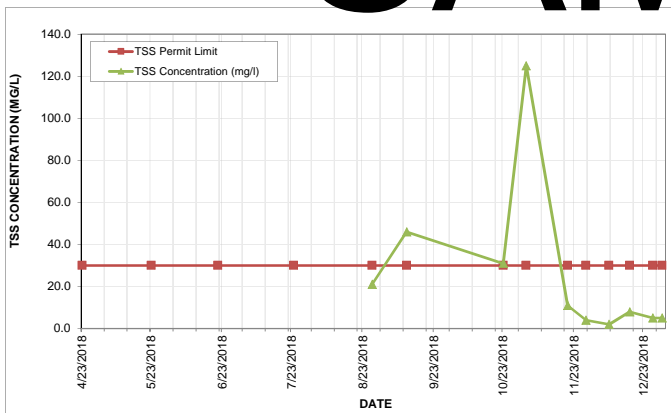
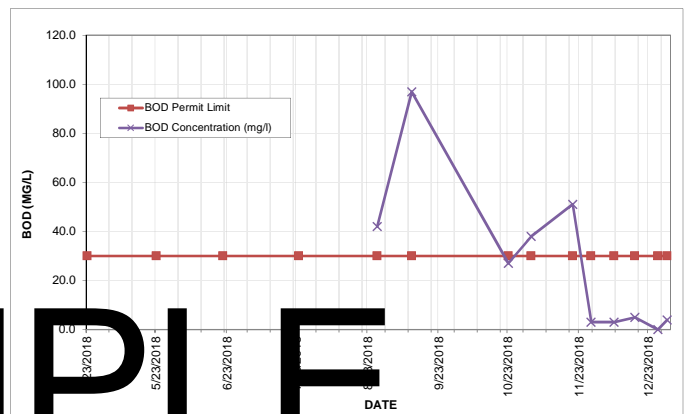
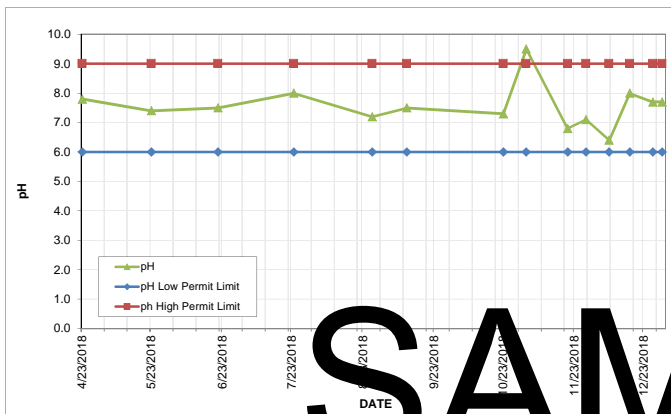
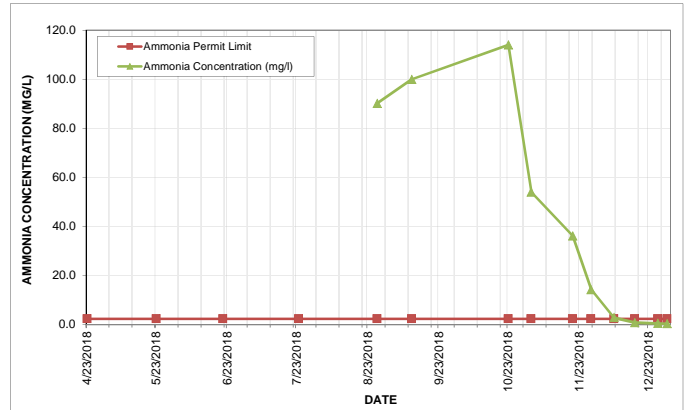
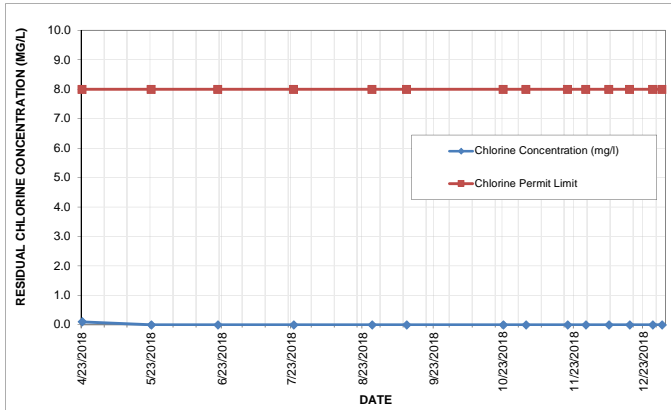
DO _____
 pH _____
 Turbidity _____
 Ammonia _____
 Nitrates _____
 Nitrites _____
 Alkalinity _____

*Graphical Plots of Concentration versus
Time, Select Analytes*

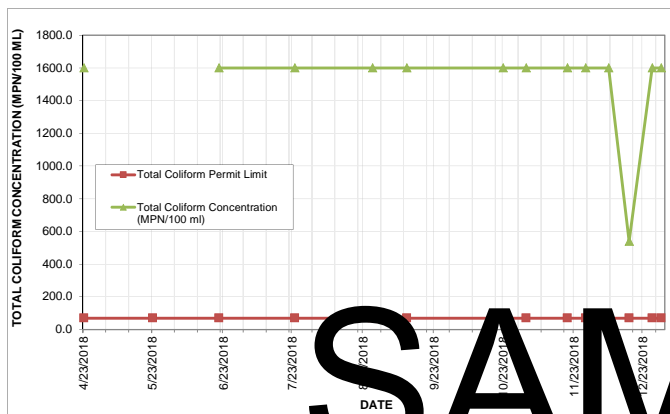
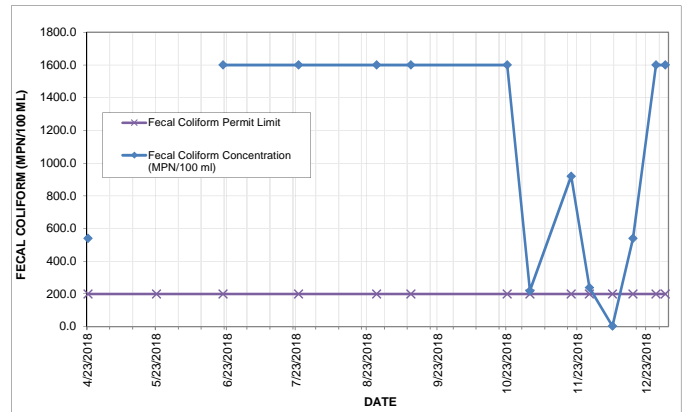
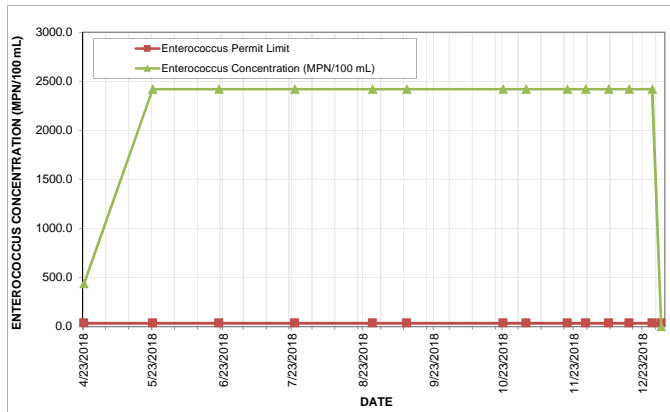
SAMPLE

SURFRIDER COUNTY BEACH EFFLUENT

PLOT OF SELECT CHEMICALS - CONCENTRATION VERSUS TIME

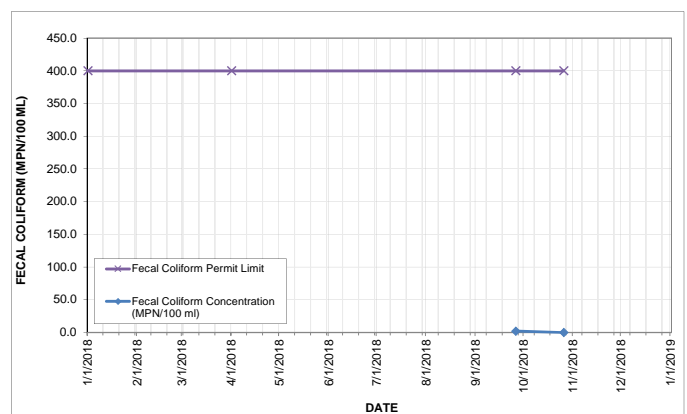
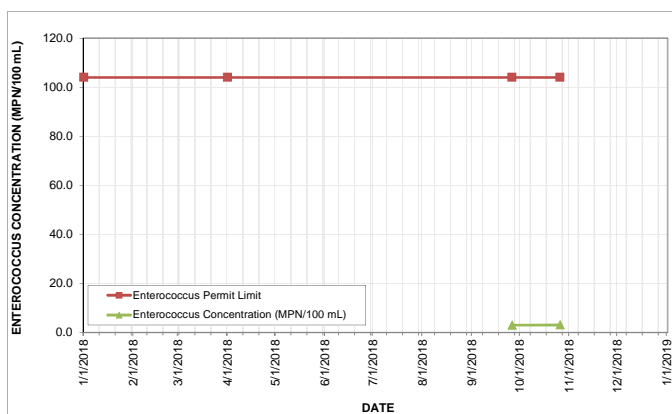
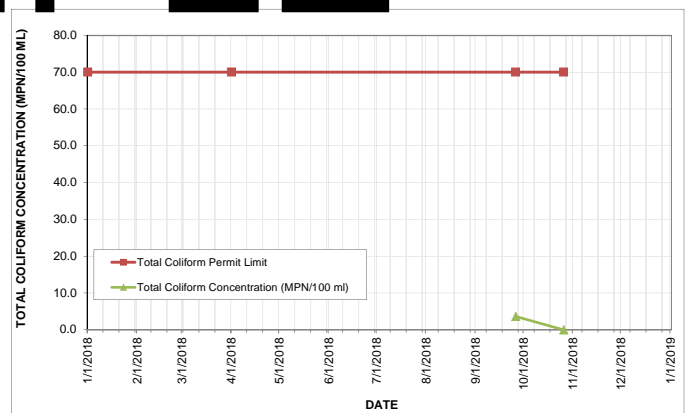
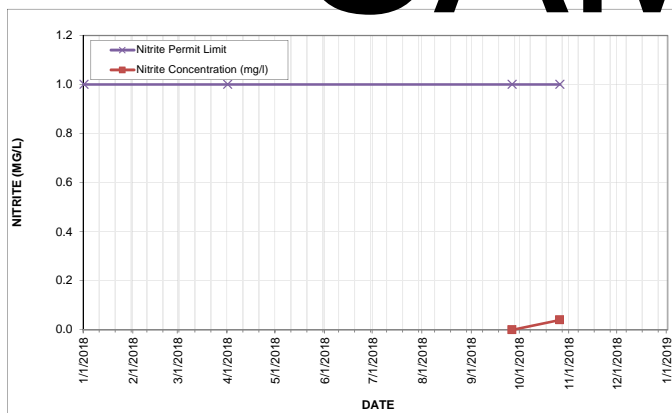
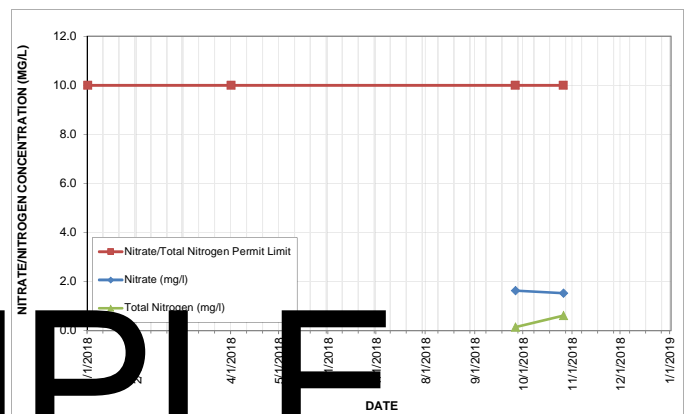
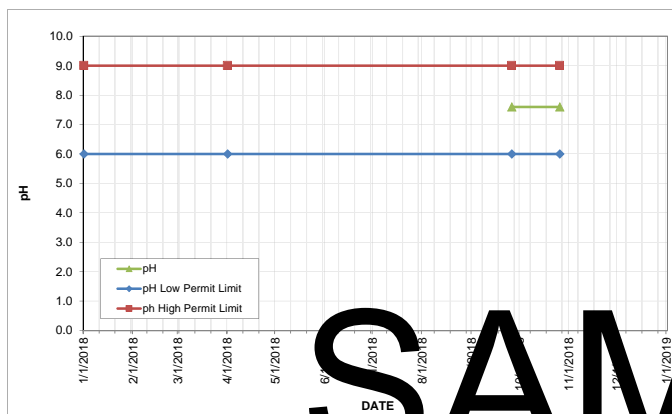
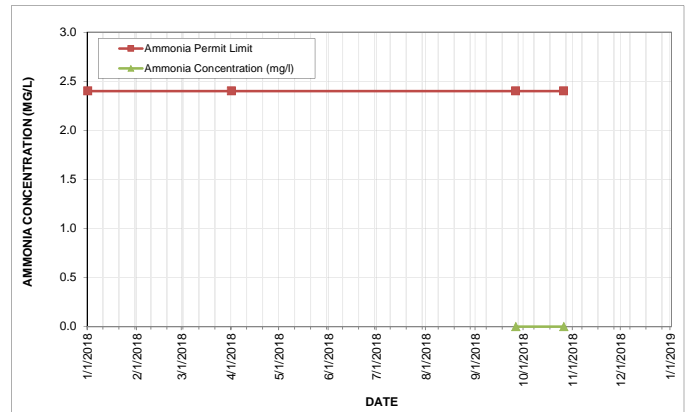
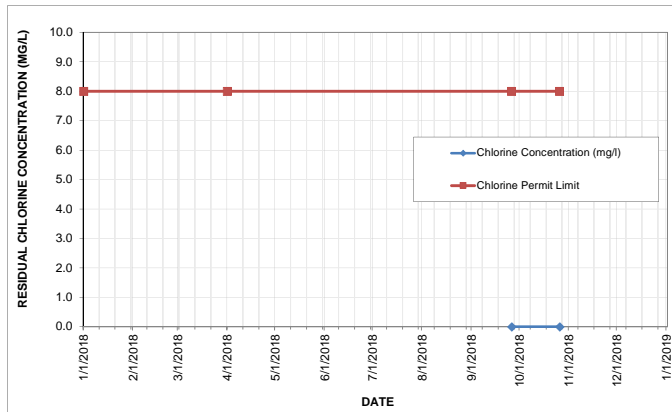


**SURFRIDER COUNTY BEACH EFFLUENT
PLOT OF SELECT CHEMICALS - CONCENTRATION VERSUS TIME**



SAMPLE

SURFRIDER COUNTY BEACH MONITORING WELL SB1 **PLOT OF SELECT CHEMICALS - CONCENTRATION VERSUS TIME**



SAMPLE

Name/Address of Haz Mat Pick Up Site:	Marina/Via Dolce Maintenance Yard 4139 Dell Ave. Marina del Rey 90292 EPA ID # CAL000316493
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Hazardous Waste Materials	Approximate Quantities On Hand	Comments
Used Oil Filters	N/A	
Used Rags	N/A	
<u>Oil Buckets</u> How big and how full?	N/A	
<u>Plastic Containers</u> How big? Any contents?	N/A	
<u>55 Gallon Drums - Used Oil</u> Drums pumped out or drums replaced with new ones?	N/A	
Oil Absorbant	N/A	
<u>One Gallon Paint Cans</u> How Full? What kind of paint?	N/A	
<u>5 Gallon Paint Buckets</u> How Full? What kind of paint?	N/A	
<u>Paint Buckets - Other than 1 & 5 gallon</u> What size, how full, and what kind of paint?	N/A	
<u>Spray Paint Cans</u> Empty or Full?	N/A	
<u>500 Gallon Hazardous Waste Container</u> How many gallons need to be pumped out? What type of waste - oil, gas, mixture?	N/A	
<u>Fluorescent Light Bulbs</u> What type? How Long?	N/A	
<u>Batteries</u> What type? What size? Please estimate the weight of the battery disposal container if using.	1/2 bucket full of various AA and AAA batteries (no clue on weight)	
<u>E-Waste</u> (Computers, monitors, printers, phones, light fixtures, etc.)	N/A	If items have a Red Tag Number, please list number next to description of item and file a Disposal Form with Budget Section.
<u>Tools, Equipment</u> (Pumps, dispensers, chainsaws, etc.)	N/A	If items have a Red Tag Number, please list number next to description of item and file a Disposal Form with Budget Section.
<u>Other</u> (Anything else you want to dispose of)	4 toner cartridges	If items have a Red Tag Number, please list number next to description of item and file a Disposal Form with Budget Section.

Submitted by: *Vicky Lizarraga*

Date:

6/2/2022

Name/Address of Haz Mat Pick Up Site:	Redondo/Knob Hill Service Yard
	743 Esplanade Redondo Beach 90277 EPA ID # CAD982035115

Hazardous Waste Materials	Approximate Quantities On Hand	Comments
Used Oil Filters	1	Heavy equipment oil filter
Used Rags	24	Oil and grease on rags
<u>Oil Buckets</u> How big and how full?	None	N/A
<u>Plastic Containers</u> How big? Any contents?	3 empty	1 - 5 gallon gas container, 1 - 1 gallon gas container, 1 - 5 gallon water bottle has gas content
<u>55 Gallon Drums - Used Oil</u> Drums pumped out or drums replaced with new ones?	One Drum 3/4 full with used motor oil and gasoline.	Replace with new one
Oil Absorbant	None	N/A
<u>One Gallon Paint Cans</u> How Full? What kind of paint?	8- Full, 5 - Empty	Interior/ Exterior Neutral Base
<u>5 Gallon Paint Buckets</u> How Full? What kind of paint?	1 - 1/2 Full, 1- Empty	Exterior base paint
<u>Paint Buckets - Other than 1 or 5 gallon</u> What size, how full, and what kind of paint?	None	N/A
<u>Spray Paint Cans</u> Empty or Full?	10 - Empty	Enamel
<u>500 Gallon Hazardous Waste Container</u> How many gallons need to be pumped out? What type of waste - oil, gas, mixture?	None	N/A
<u>Fluorescent Light Bulbs</u> What type? How Long?	None	N/A
<u>Batteries</u> What type? What size? Please estimate the weight of the battery disposal container if using.	None	N/A
<u>E-Waste</u> (Computers, monitors, printers, phones, light fixtures, etc.)	Air Conditioner Wall Unit	No Red Tag,
<u>Tools, Equipment</u> (Pumps, dispensers, chainsaws, etc.)	N/A	If items have a Red Tag Number, please list number next to description of item and file a Disposal Form with Budget Section.
<u>Other</u> (Anything else you want to dispose of)	1- Empty 55 gallon Heavy Duty Diesel Engine Oil Drum	N/A

Submitted by:

Arturo Avalos

Date:

6/9/2022

Name/Address of Haz Mat Pick Up Site:	Venice Service Yard 2300 Ocean Front Walk Venice 90291 EPA ID # CAL000386388
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Hazardous Waste Materials	Approximate Quantities On Hand	Comments
Used Oil Filters	3	N/A
Used Rags	N/A	N/A
<u>Oil Buckets</u> How big and how full?	N/A	N/A
<u>Plastic Containers</u> How big? Any contents?	2.5 gallon bucket	grease, empty
<u>55 Gallon Drums - Used Oil</u> Drums pumped out or drums replaced with new ones?	55 gallon plastic drum	CitraCide, empty
Oil Absorbant	N/A	N/A
<u>One Gallon Paint Cans</u> How Full? What kind of paint?	N/A	N/A
<u>5 Gallon Paint Buckets</u> How Full? What kind of paint?	N/A	N/A
<u>Paint Buckets - Other than 1 or 5 gallon</u> What size, how full, and what kind of paint?	N/A	N/A
<u>Spray Paint Cans</u> Empty or Full?	N/A	N/A
<u>500 Gallon Hazardous Waste Container</u> How many gallons need to be pumped out? What type of waste - oil, gas, mixture?	N/A	N/A
<u>Fluorescent Light Bulbs</u> What type? How Long?	N/A	N/A
<u>Batteries</u> What type? What size? Please estimate the weight of the battery disposal container if using.	N/A	N/A
<u>E-Waste</u> (Computers, monitors, printers, phones, light fixtures, etc.)	N/A	N/A
<u>Tools, Equipment</u> (Pumps, dispensers, chainsaws, etc.)	N/A	N/A
<u>Other</u> (Anything else you want to dispose of)	N/A	N/A

Submitted by: *Steven Christopher*

Date: 6/9/2022

Name/Address of Haz Mat Pick Up Site:	Will Rogers Service Yard 16300 Pacific Coast Hwy Pacific Palisades 90272 EPA ID # CAL000386384
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Hazardous Waste Materials	Approximate Quantities On Hand	Comments
Used Oil Filters	1	
Used Rags	19	
<u>Oil Buckets</u> How big and how full?	1 Hydraulic oil bucket	Empty
<u>Plastic Containers</u> How big? Any contents?	2/Five Qts used oil and 1/one Gal Lithochrome	Full
<u>55 Gallon Drums - Used Oil</u> Drums pumped out or drums replaced with new ones?	1 55 Gal used oil drum	
Oil Absorbant	N/A	
<u>One Gallon Paint Cans</u> How Full? What kind of paint?	N/A	
<u>5 Gallon Paint Buckets</u> How Full? What kind of paint?	4 empty 1 half full (Interior/ Exterior)	
<u>Paint Buckets - Other than 1 or 5 gallon</u> What size, how full, and what kind of paint?	N/A	
<u>Spray Paint Cans</u> Empty or Full?	N/A	
<u>500 Gallon Hazardous Waste Container</u> How many gallons need to be pumped out? What type of waste - oil, gas, mixture?	N/A	
<u>Fluorescent Light Bulbs</u> What type? How Long?	N/A	
<u>Batteries</u> What type? What size? Please estimate the weight of the battery disposal container if using.	N/A	
<u>E-Waste</u> (Computers, monitors, printers, phones, light fixtures, etc.)	N/A	
<u>Tools, Equipment</u> (Pumps, dispensers, chainsaws, etc.)	N/A	
<u>Other</u> (Anything else you want to dispose of)	6 paint roller frames/ 4 paint roller frame covers and 1 trashcan with contaminated water/gas from fuel tank	

Submitted by: *Darquen Rawlings*

Date: June 2nd, 2022

Name/Address of Haz Mat Pick Up Site:	Will Rogers Service Yard 16300 Pacific Coast Hwy Pacific Palisades 90272 EPA ID # CAL000386384
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Hazardous Waste Materials	Approximate Quantities On Hand	Comments
Used Oil Filters	1	
Used Rags	19	
<u>Oil Buckets</u> How big and how full?	1 Hydraulic oil bucket	Empty
<u>Plastic Containers</u> How big? Any contents?	2/Five Qts used oil and 1/one Gal Lithochrome	Full
<u>55 Gallon Drums - Used Oil</u> Drums pumped out or drums replaced with new ones?	1 55 Gal used oil drum	
Oil Absorbant	N/A	
<u>One Gallon Paint Cans</u> How Full? What kind of paint?	N/A	
<u>5 Gallon Paint Buckets</u> How Full? What kind of paint?	4 empty 1 half full (Interior/ Exterior)	
<u>Paint Buckets - Other than 1 or 5 gallon</u> What size, how full, and what kind of paint?	N/A	
<u>Spray Paint Cans</u> Empty or Full?	N/A	
<u>500 Gallon Hazardous Waste Container</u> How many gallons need to be pumped out? What type of waste - oil, gas, mixture?	N/A	
<u>Fluorescent Light Bulbs</u> What type? How Long?	N/A	
<u>Batteries</u> What type? What size? Please estimate the weight of the battery disposal container if using.	N/A	
<u>E-Waste</u> (Computers, monitors, printers, phones, light fixtures, etc.)	N/A	
<u>Tools, Equipment</u> (Pumps, dispensers, chainsaws, etc.)	N/A	
<u>Other</u> (Anything else you want to dispose of)	6 paint roller frames/ 4 paint roller frame covers and 1 trashcan with contaminated water/gas from fuel tank	

Submitted by: *Darquen Rawlings*

Date: June 2nd, 2022

Name/Address of Haz Mat Pick Up Site:	Zuma Service Yard 30100 Pacific Coast Highway Malibu 90265 EPA ID # CAL000386380
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Hazardous Waste Materials	Approximate Quantities On Hand	Comments
<u>Used Oil Filters</u>	4 Hydraulic Filters	
<u>Used Rags</u>	13	
<u>Oil Buckets</u> How big and how full?	N/A	
<u>Plastic Containers</u> How big? Any contents?	(7) Empty 5 gallons Tractor Hydraulic / Transmission Fluid	
<u>55 Gallon Drums - Used Oil</u> Drums pumped out or drums replaced with new ones?	(1) need to be pumped out / replaced.	
<u>Oil Absorbant</u>	N/A	
<u>One Gallon Paint Cans</u> How Full? What kind of paint?	N/A	
<u>5 Gallon Paint Buckets</u> How Full? What kind of paint?	N/A	
<u>Paint Buckets - Other than 1 & 5 gallon</u> What size, how full, and what kind of paint?	N/A	
<u>Spray Paint Cans</u> Empty or Full?	N/A	
<u>500 Gallon Hazardous Waste Container</u> How many gallons need to be pumped out? What type of waste - oil, gas, mixture?	N/A	
<u>Fluorescent Light Bulbs</u> What type? How Long?	N/A	
<u>Batteries</u> What type? What size? Please estimate the weight of the battery disposal container if using.	N/A	
<u>E-Waste</u> (Computers, monitors, printers, phones, light fixtures, etc.)	N/A	If items have a Red Tag Number, please list number next to description of item and file a Disposal Form with Budget Section.
<u>Tools, Equipment</u> (Pumps, dispensers, chainsaws, etc.)	N/A	If items have a Red Tag Number, please list number next to description of item and file a Disposal Form with Budget Section.
<u>Other</u> (Anything else you want to dispose of)	10 Plastic bags 1/2 full of contaminated sand	If items have a Red Tag Number, please list number next to description of item and file a Disposal Form with Budget Section.

Submitted by: *Curtis Isom - BMS*

Date: June 06, 2022.

Name/Address of Haz Mat Pick Up Site:	Zuma Service Yard
	30100 Pacific Coast Highway Malibu 90265 EPA ID # CAL000386380

Hazardous Waste Materials	Approximate Quantities On Hand	Comments
Used Oil Filters	10	Hydraulic Filters
Used Rags	40	Gasoline Soaked
<u>Oil Buckets</u> How big and how full?	3	Empty Gas Canisters
<u>Plastic Containers</u> How big? Any contents?	2	Container-1/3 DEF-1/4Light Fluid
<u>55 Gallon Drums - Used Oil</u> Drums pumped out or drums replaced with new ones?	1 2	Pumped out Half Full/1 Empty
Oil Absorbant	6	Bags of used Compound
<u>One Gallon Paint Cans</u> How Full? What kind of paint?	0	
<u>5 Gallon Paint Buckets</u> How Full? What kind of paint?	0	
<u>Paint Buckets - Other than 1 or 5 gallon</u> What size, how full, and what kind of paint?		
<u>Spray Paint Cans</u> Empty or Full?		
<u>500 Gallon Hazardous Waste Container</u> How many gallons need to be pumped out? What type of waste - oil, gas, mixture?	0	
<u>Fluorescent Light Bulbs</u> What type? How Long?	13	4ft Long Fluorescent Bulbs
<u>Batteries</u> What type? What size? Please estimate the weight of the battery disposal container if using.	0	
<u>E-Waste</u> (Computers, monitors, printers, phones, light fixtures, etc.)	0	If items have a Red Tag Number, please list number next to description of item and file a Disposal Form with Budget Section.
<u>Tools, Equipment</u> (Pumps, dispensers, chainsaws, etc.)	0	If items have a Red Tag Number, please list number next to description of item and file a Disposal Form with Budget Section.
<u>Other</u> (Anything else you want to dispose of)	26	Plastic bags of sand/Contaminated

Submitted by: *Jon Rubin - GMW II*

Date:

11/9/2022

Name/Address of Haz Mat Pick Up Site:	Will Rogers Service Yard 16300 Pacific Coast Hwy Pacific Palisades 90272 EPA ID # CAL000386384
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Hazardous Waste Materials	Approximate Quantities On Hand	Comments
Used Oil Filters	1	
Used Rags	35	Absorbed with oil.
<u>Oil Buckets</u> How big and how full?		
<u>Plastic Containers</u> How big? Any contents?	9	all 5 quart synthetic oil.
<u>55 Gallon Drums - Used Oil</u> Drums pumped out or drums replaced with new ones?		
Oil Absorbant	5	Black bags filled(1/4 full)
<u>One Gallon Paint Cans</u> How Full? What kind of paint?		
<u>5 Gallon Paint Buckets</u> How Full? What kind of paint?	4	Acrylic (aprox 1/2 full)
<u>Paint Buckets - Other than 1 or 5 gallon</u> What size, how full, and what kind of paint?		Acrylic 1 quart- full
<u>Spray Paint Cans</u> Empty or Full?		
<u>500 Gallon Hazardous Waste Container</u> How many gallons need to be pumped out? What type of waste - oil, gas, mixture?		
<u>Fluorescent Light Bulbs</u> What type? How Long?		
<u>Batteries</u> What type? What size? Please estimate the weight of the battery disposal container if using.	1	25lb car battery
<u>E-Waste</u> (Computers, monitors, printers, phones, light fixtures, etc.)		If items have a Red Tag Number, please list number next to description of item and file a Disposal Form with Budget Section.
<u>Tools, Equipment</u> (Pumps, dispensers, chainsaws, etc.)		If items have a Red Tag Number, please list number next to description of item and file a Disposal Form with Budget Section.
<u>Other</u> (Anything else you want to dispose of)	3ft Wooden plank, end absorbed with oil. 1 gallon acetone container/empty	If items have a Red Tag Number, please list number next to description of item and file a Disposal Form with Budget Section.

Submitted by: *Nicholas Beirne*

Date:

11/9/2022

Name/Address of Haz Mat Pick Up Site:	VENICE SERVICE YARD 2300 Ocean Front Walk Venice 90291 EPA ID # CAL000386388
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Hazardous Waste Materials	Approximate Quantities On Hand	Comments
Used Oil Filters	6	N/A
Used Rags	17	N/A
<u>Oil Buckets</u> How big and how full?	7	5 gal, empty buckets oil
<u>Plastic Containers</u> How big? Any contents?	8	quart, empty
<u>55 Gallon Drums - Used Oil</u> Drums pumped out or drums replaced with new ones?	3	1 full, 1 half, 1 half water/oil
Oil Absorbant	1	bag
<u>One Gallon Paint Cans</u> How Full? What kind of paint?	1	gal Thompson's Water Seal
<u>5 Gallon Paint Buckets</u> How Full? What kind of paint?	0	N/A
<u>Paint Buckets - Other than 1 & 5 gallon</u> What size, how full, and what kind of paint?	0	N/A
<u>Spray Paint Cans</u> Empty or Full?	0	N/A
<u>500 Gallon Hazardous Waste Container</u> How many gallons need to be pumped out? What type of waste - oil, gas, mixture?	0	N/A
<u>Fluorescent Light Bulbs</u> What type? How Long?	0	N/A
<u>Batteries</u> What type? What size? Please estimate the weight of the battery disposal container if using.	0	N/A
<u>E-Waste</u> (Computers, monitors, printers, phones, light fixtures, etc.)	0	If items have a Red Tag Number, please list number next to description of item and file a Disposal Form with Budget Section.
<u>Tools, Equipment</u> (Pumps, dispensers, chainsaws, etc.)	0	If items have a Red Tag Number, please list number next to description of item and file a Disposal Form with Budget Section.
<u>Other</u> (Anything else you want to dispose of)	1 starter fluid, 1 plastic paint, 1 metal paint	If items have a Red Tag Number, please list number next to description of item and file a Disposal Form with Budget Section.

Submitted by: Ken Armantrout

Date: 11/10/2022

Name/Address of Haz Mat Pick Up Site:	MARINA/VIA DOLCE SERVICE YARD
	4139 Dell Ave. Marina del Rey 90292 EPA ID # CAL000316493

Hazardous Waste Materials	Approximate Quantities On Hand	Comments
Used Oil Filters		
Used Rags		
<u>Oil Buckets</u> How big and how full?		
<u>Plastic Containers</u> How big? Any contents?		
<u>55 Gallon Drums - Used Oil</u> Drums pumped out or drums replaced with new ones?		
Oil Absorbant		
<u>One Gallon Paint Cans</u> How Full? What kind of paint?		
<u>5 Gallon Paint Buckets</u> How Full? What kind of paint?		
<u>Paint Buckets - Other than 1 or 5 gallon</u> What size, how full, and what kind of paint?		
<u>Spray Paint Cans</u> Empty or Full?		
<u>500 Gallon Hazardous Waste Container</u> How many gallons need to be pumped out? What type of waste - oil, gas, mixture?		
<u>Fluorescent Light Bulbs</u> What type? How Long?		
<u>Batteries</u> What type? What size? Please estimate the weight of the battery disposal container if using.	Various AA, AAA, C and D batteries - brown container 3/4 full (no idean on weight)	
<u>E-Waste</u> (Computers, monitors, printers, phones, light fixtures, etc.)		If items have a Red Tag Number, please list number next to description of item and file a Disposal Form with Budget Section.
<u>Tools, Equipment</u> (Pumps, dispensers, chainsaws, etc.)		If items have a Red Tag Number, please list number next to description of item and file a Disposal Form with Budget Section.
<u>Other</u> (Anything else you want to dispose of)	6 printer cartridges	If items have a Red Tag Number, please list number next to description of item and file a Disposal Form with Budget Section.

Submitted by: Vicky Lizarraga

Date:

11/9/2022

Name/Address of Haz Mat Pick Up Site:	Dockweiler Service Yard 8255 Vista del Mar Playa del Rey 90293 EPA ID # CAL000386389
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Hazardous Waste Materials	Approximate Quantities On Hand	Comments
Used Oil Filters	25	
Used Rags	50	
Oil Buckets How big and how full?	2	
Plastic Containers How big? Any contents?		
55 Gallon Drums - Used Oil Drums pumped out or drums replaced with new ones?		
Oil Absorbant	7	50 Gallon Plastic Bags
One Gallon Paint Cans How Full? What kind of paint?	3	
5 Gallon Paint Buckets How Full? What kind of paint?	10 empty 2 full	
Paint Buckets - Other than 1 & 5 gallon What size, how full, and what kind of paint?		
Spray Paint Cans Empty or Full?	2	Less than 1/4 (Both)
500 Gallon Hazardous Waste Container How many gallons need to be pumped out? What type of waste - oil, gas, mixture?		
Fluorescent Light Bulbs What type? How Long?	151	3' - 4'
Batteries What type? What size? Please estimate the weight of the battery disposal container if using.	12 C 62 AA 13 D	6x4x4 (2 LBS)
E-Waste (Computers, monitors, printers, phones, light fixtures, etc.)	11 - Ballast	
Tools, Equipment (Pumps, dispensers, chainsaws, etc.)		
Other (Anything else you want to dispose of)	11 - 10oz PVC Cement Cans 1 - 10oz PVC Primer Cans 4 - 3 Gallons Buckets Mixed Oil and Paint 1 - Tiki Torch fuel 10oz 1 - WD40 10oz Can 1 - Fire Extinguisher 1 - Graffiti remover 10oz Can 2 - Oil Funnels 2 - 55gallon drums w/contaminated diesel	

Submitted by: **Christopher Gallego**
Date: 11/14/2022

Name/Address of Haz Mat Pick Up Site:	Redondo/Knob Hill Service Yard 743 Esplanade Redondo Beach 90277 EPA ID # CAD982035115
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Hazardous Waste Materials	Approximate Quantities On Hand	Comments
Used Oil Filters	4	Heavy equipment oil filter
Used Rags	40	Oil and grease on rags
<u>Oil Buckets</u> How big and how full?	3 - Empty	5 gallons buckets
<u>Plastic Containers</u> How big? Any contents?	1- Empty	5 gallon gas container
<u>55 Gallon Drums - Used Oil</u> Drums pumped out or drums replaced with new ones?	One Drum 3/4 full with used motor oil and gasoline.	Replace with new one
Oil Absorbant	None	N/A
<u>One Gallon Paint Cans</u> How Full? What kind of paint?	3 - Empty	Interior/ Exterior Neutral Base
<u>5 Gallon Paint Buckets</u> How Full? What kind of paint?	1- Empty	Exterior base paint
<u>Paint Buckets - Other than 1 or 5 gallon</u> What size, how full, and what kind of paint?	None	N/A
<u>Spray Paint Cans</u> Empty or Full?	5 - Empty	Enamel
<u>500 Gallon Hazardous Waste Container</u> How many gallons need to be pumped out? What type of waste - oil, gas, mixture?	None	N/A
<u>Fluorescent Light Bulbs</u> What type? How Long?	None	N/A
<u>Batteries</u> What type? What size? Please estimate the weight of the battery disposal container if using.	None	N/A
<u>E-Waste</u> (Computers, monitors, printers, phones, light fixtures, etc.)	1 Maytag Refrigerator (Red Tag 2546), 2 Sharp Microwave (Red Tag 4318 and 6853, 2 Microwave (No Red Tag Personal)	Two of the microwave's where brought from employees homes
<u>Tools, Equipment</u> (Pumps, dispensers, chainsaws, etc.)	None	N/A
<u>Other</u> (Anything else you want to dispose of)	3 plastic bags with contaminated sand weighing approx. 20 lbs. each bag. 1 Heavy Equipment Air Filter	Contaminated sand consist of chemical toilet waste

Submitted by:

Arturo Avalos

Date:

11/4/2022