

CROCKETT SANITARY COMMISSION

Regular Meeting

AGENDA FOR WEDNESDAY, MARCH 15, 2023

TIME: 4:00 PM

PLACE: Crockett Community Center, 850 Pomona Avenue, Crockett

The Crockett Sanitary Commission is an agent of the Crockett Community Services District.

1. CALL TO ORDER – ROLL CALL
2. CALL FOR REQUESTS TO CONSIDER ITEMS OUT OF ORDER
3. PUBLIC COMMENTS ON NON-AGENDA ITEMS:
(The Board is prohibited from discussing items not on this agenda. Matters brought up that are not on the agenda may be referred to staff for action or calendared on a future agenda.)
4. PUBLIC HEARING:
5. CONSENT CALENDAR: Consideration of a motion to approve the following item:
 - a) Approve Minutes of February 15, 2023

(Items are subject to removal from Consent Calendar by request of any commissioner on request for discussion by a member of the public. Items removed from the Consent Calendar will be considered with the Administrative Items.)
6. WASTEWATER:
 - a. Consider report on enforcement actions.
 - b. Receive preliminary report on concrete condition of EQ tank and JTP by Concrete Science Incorporated
 - c. Discussion of replacement options for the JTP
 - d. Discussion on subject of shared laterals
7. ADMINISTRATIVE:
 - a. Consider report on actions taken by the District Board.
8. BUDGET AND FINANCE:
 - a. Consider Summary Worksheet and staff report on financial matters
9. REPORT OF DEPARTMENT MANAGER: (These items are typically for exchange of information only. No action will be taken at this time.)
 - a. Operations, maintenance and capital improvements.
 - b. Governmental matters.

- c. Announcements and discussion.
- 10. REPORTS FROM COMMISSIONERS: (These items are typically for exchange of information only. No action will be taken at this time.)
 - a. Wastewater Committee – Members Manzione and Wais
 - b. Budget & Finance Committee – Members Adams and Trask
 - c. Recycled Water Ad Hoc Committee: Members Manzione and Trask
 - d. Inter-agency meetings:
- 11. FUTURE AGENDA ITEMS:
- 12. COMMENTS FROM COMMISSIONERS:
- 13. ADJOURNMENT until APRIL 19, 2023

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You will find the Minutes of this meeting posted on our website at www.town.crockett.ca.us
Visit our website for more information on meetings and activities of the Crockett Community Services District and the towns of Crockett and Port Costa on the picturesque Carquinez Strait of the San Francisco Bay.

In compliance with the Americans with Disabilities Act of 1990, if you need special assistance to participate in a District meeting, or if you need a copy of the agenda, or the agenda packet, in an appropriate alternative format, please contact the General Manager at (510) 787-2992. Notification of at least 48 hours prior to the meeting or time when services are needed will assist District staff in assuring that reasonable arrangements can be made to provide accessibility to the meeting or service.

In accordance with California Government Code Section 54957.5, any writing or document that is a public record, relates to an open session agenda item, and is distributed less than 72 hours prior to a regular meeting will be made available for public inspection at the Crockett Community Services District Office in Crockett. If, however, the document or writing is not distributed until the regular meeting to which it relates, then the document or writing will be made available to the public at the location of the meeting, as listed on this agenda. The office address is 850 Pomona Street, Crockett, California 94525.

Computer: Watch the live streaming of the meeting from a computer by navigating to <https://us02web.zoom.us/j/4107659435> using a computer with internet access that meets Zoom's system requirements (see <https://support.zoom.us/hc/en-us/articles/201362023-System-Requirements-for-PC-Mac-and-Linux>)



Sent via E-mail: District Engineer <Engineer@town.crockett.ca.us>

August 17th, 2023

Mr. Gaunt Murdock
District Engineer
Crockett Sanitary District
1 Rolph Park Drive
Crockett, CA

Subject: Preliminary Visual Assessment

Projects: 1) Circular Reinforced Concrete Equalization Tank, Crockett, CA
2) Rectangular Concrete Tank at the C& H Plant, Crockett, CA

Dear Murdock,

On February 9, 2022, Concrete Science, Inc., performed a preliminary visual assessment of the circular concrete equalization tank in Crockett, CA. Reportedly 100 ft internal diameter and 34 feet tall, the reinforced concrete tank was built in the 1970s with a capacity of 2 million gallons. The tank has an open top. The access to the top is via a staircase and access to the interior of the tank is from a ground-level port. The tank is located close to the Carquinez bridge and straight. It is used as a temporary storage of raw sewage.

We performed a cursory review of the structural drawings for the equalization tank. The drawings S5 and S6 dated August 26, 1977, showed that the walls were 12-inches thick and reinforced with conventional steel. However, drawing S6 showed that there are six pilasters along the perimeter of the circular wall and those pilasters had strands for the post tensioning.

We did not have any information about the rectangular sewage tank at the C&H Plant.

A) Circular Reinforced Concrete Tank

My primary observations were as follows. Photographs 1 through 8 show typical primary observations.

1. The staircase, especially, the lower section had numerous cracks, white efflorescence, and corrosion stains. The closely spaced cracks and white efflorescence can be due to sulfate damage to the cement paste. The source of sulfate could be the sewage leak from the tank.
2. The pilasters showed cracks, spalling, and corrosion stains.
3. The walls showed some rebar corrosion.
4. The walls were 12 inches in thickness with two layers of reinforcement.
5. At some locations, the height of the wall above the walking platform sounded somewhat hollow or internally delaminated.
6. Some cracks at the bottom of the tank exhibited a water leak.
7. The interior of the tank, above the sewage line, did not exhibit significant cracking or other

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Project: Sewage Processing Tanks
Crockett Sanitary District

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defects.

8. The tank generally had some corrosion and likely delamination/void issues. However, if properly investigated the tank is reasonably in good condition and can be repaired to extend its service life.

B). C& H Rectangular Tank

The typical observations are shown in Photographs 9 through 15. The primary observations were as follows.

1. The tank is large and has several sections for treating the sewage.
2. There are multiple vertical cracks on all sides of the tank. Most likely these are drying shrinkage cracks from the original construction.
3. The sewage water is seeping through the cracks. The seeping water evaporates on the exterior of the walls leaving behind efflorescence, a white powdery substance. The cracks also showed presence of rust like corrosion stains along the crack. The concrete along the edges of the crack was spalled.
4. The pipe penetrations showed heavy presence of corrosion stains.
5. The top of the tank was open, and the sewage was filled close to the top of the wall. The concrete walls were not visible from the interior side.

RECOMMENDATIONS

To prevent future corrosion of reinforcement and extend the life expectancy of the tanks, we recommend that both the tanks be investigated for the following.

1. Document various conditions on scaled drawings.
2. Perform delamination testing using non-destructive hammer tests as well as impact echo technique.
3. Perform concrete strength determination using a non-destructive Rebound Hammer Test in conjunction with some core strength tests.
4. Expose reinforcement at some locations to visually examine reinforcement and perform a non-destructive electrical corrosion potential test.
5. Perform chloride analysis on concrete powder samples to determine possibility of corrosion due to chloride content in concrete.
6. Perform petrographic analysis of a few cores to determine if sewage has caused deterioration of the cement paste.
7. Chemically analyze efflorescence (white powdery deposits along the crack).
8. Determine the extent of necessary repairs.

If requested, we will be happy to provide budget for the above recommended investigation and testing.

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LIMITATIONS

Concrete Science, Inc. and its employees have exercised the degree of skill and care expected and customarily accepted by good engineering practices and procedures. No other warranties are expressed or implied concerning Concrete Science Inc.'s performance. Concrete Science, Inc. is not responsible for acts or omissions of the client, or third parties not under our direct control. Use of this report is restricted to our client only. The test results represent the condition of the structure at the time of the tests. Use of this report out of context, not fully assembled with photographs, figures, appendices, and without an original signature, shall not be the responsibility of Concrete Science Inc.

This report, including any recommendations, is based on limited information, limited field observations, and testing, and the available access to the site, and represents the opinion of the undersigned. It is possible and probable that unknown and/or hidden conditions may exist which would influence this report, its conclusions, and recommendations. The undersigned must, therefore, expressly disclaim any liability to those who may rely upon this report in fashioning, performing, or accepting remedial work without our active involvement during the preparation of the remedial details and specifications, on-site observations of the work in progress, and acceptance of such work. All field samples are discarded 30 days from the report date unless requested in writing. A storage or return fee will apply.

We appreciate the opportunity to perform the work. If you have a question, please call us. Thank you.

Sincerely,

Concrete Science, Inc.



Ashok M. Kakade, PE
Fellow of ACI, ICRI, ASCE & ICI
Principal Engineer

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Photograph 1. An elevational view of the circular sewage tank with a staircase to reach the top of the tank.



Photograph 2. Corroded nails or part of reinforcement was corroding in the pilasters.



Photograph 3. The lower section of the staircase shows cracking and efflorescence.

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Photograph 4. Close-up of cracks in stairs with white efflorescence.



Photograph 5. Close-up of corroded reinforcement in the wall.

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Photograph 6. The interior of the tank. From a distance, the concrete surface showed no distress.

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Photograph 7. The pilasters showed corrosion of metal.



Photograph 8. The close-up of corroded nails and post-tension anchor pockets (red arrow).

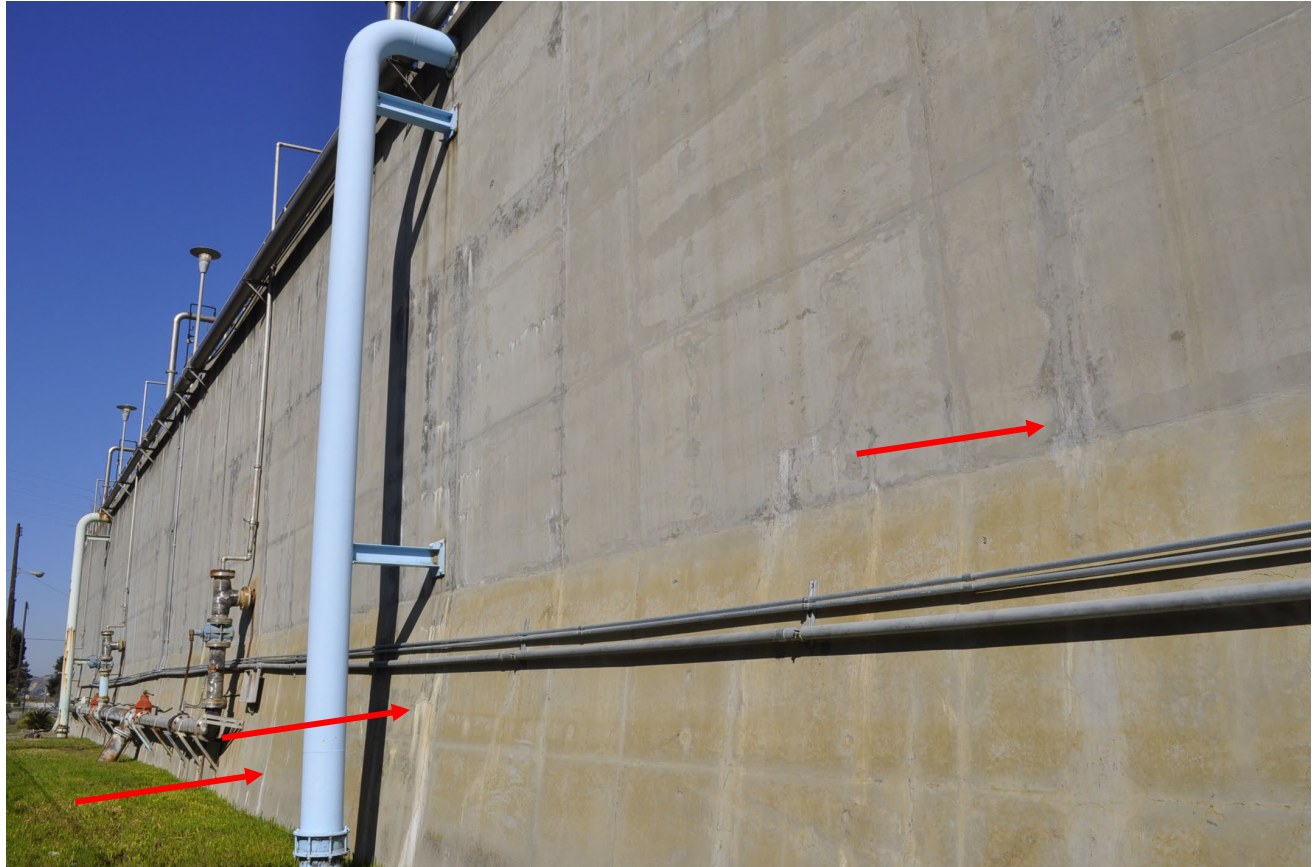
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Photograph 9. A portion of the sewage treatment structure at the Philip F. Meads Water Treatment Facility operated by C& H Sugar Company.



Photograph 10. Roadside wall of the sewage treatment structure. There were many signs of sewage water leaking from the wall cracks. The ground adjacent to the wall was saturated with water and water was puddled on the soil.



Photograph 11. Another long wall of the structure showed a sewage water leak and reinforcement rust-like stains along the leak.



Photograph 12. Another location shows a sewage water leak through vertical and horizontal cracks and efflorescence.



Photograph 13. A close-up of a typical leaky crack with rust-like brownish stains.



Photograph 14. Rusty pipe. The leak staining the wall with rust stains.

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Photograph 15. An overview from the top of the structure. The visible portion of the concrete elements did not show substantial distress.

From an email by sales engineer from BDP, a treatment plant design and construction company:

BDP has been **independently** tested;

1. In France by INRAE/IRSTEA, and **described BDP as "the most advanced wastewater treatment process technology** they have tested".

2. In the USA by the Institute of Marine Environment Technology (IMET) who validated BDP **aeration technology as highly efficient.**

3. In China by the Ministry Of Housing And Urban Rural Development of China who stated BDP has the **highest nitrogen removal wastewater treatment process.**

We have a number of WWT plants in California, and a lake water improvement close by at De Anza Santa Cruz using our innovative aeration system.

SUMMARY

- A global company with over **60 plants worldwide**
- Low capex, opex costs and carbon emissions
- Small land footprint and easy operations and maintenance
- Upgrade of existing plants and new greenfield plants, municipal and industrial
 - E.g. Semiconductor chip manufacturing, leachate, pharmaceutical, oil and gas, paper mill, dyestuff, cosmetic plants
- **Also smaller mobile modular plants, e.g. for small communities, resorts, and industrial applications.**
- **Outstanding performance**
 - 99% ammonia nitrogen removal
 - 95% COD removal
 - 95% total nitrogen removal
 - fully automatic controlled
 - 50% less waste sludge discharge
 - **50% less power consumption (and CO2 emission)**

Refer to our website and featured projects at <https://bdpenvirotech.com> and at <https://bdpenvirotech.com/reference-project/> respectively.

We have a **unique aeration system which is highly efficient** and can be **implemented into existing or other systems** e.g. MBR, AO, SBR etc

BDP - Most Advanced Wastewater Technology For Highest Nutrient Removal & Energy Savings

1. WHO WE ARE

BDP is a game-changing wastewater treatment process technology for nutrient removal and energy efficiency.

It has recognition by the US EPA as a paradigmatic change in wastewater technology. It is the world's first commercially successful and only MAINSTREAM simultaneous nitrification denitrification process.

BDP is a global company that has installed over 60 wastewater plants worldwide. More than 10 projects involve treating wastewater to recycled water to tap water. These projects cover municipal wastewater and various industrial wastewater industries. This has been demonstrated with a higher efficiency of pollutants removal, energy savings and a higher yield of water reuse. We have a unique aeration system which is highly efficient and can be implemented into existing or other systems e.g. MBR, AO, SBR etc.

2. INTERNATIONAL RECOGNITION

BDP has been independently tested;

1. In France by INRAE (IRSTEA), who described BDP as the most advanced wastewater treatment process technology tested and is a model for future plants.

2. In the USA by the Institute of Marine Environment Technology (IMET) who validated BDP aeration technology as highly efficient.

3. In China by the Ministry Of Housing And Urban Rural Development of China who stated BDP has the highest nitrogen removal wastewater treatment process.

3. INTERNATIONAL PROJECTS

BDP delivered its technology to the world's largest petrochemical plant, the BP-Sinopec joint venture.

This involved treatment from wastewater to 100 % water reuse. Also to the world's largest textile and dyestuff wastewater treatment plant at 200,000 cubic meters per day. Here 122 companies globally applied, 20 were selected, then pilot testing from 8 companies were carried out. Based on the pilot test results, the BDP technology was selected and successfully implemented.

We have carried out our wastewater treatment technology at 2 semiconductor manufacturing plants, a World Bank project and we have a licensing agreement with the Vinci Group.

We have a number of WWT plants in California, and a lake water improvement at De Anza Santa Cruz using our innovative aeration system.

Refer to our website and featured projects at <https://bdpenvirotech.com/reference-project/>

4. SUMMARY

BDP technology has:

- Low capex, opex costs and carbon emissions
- Small footprint, easy operations and maintenance
- Upgrade of existing plants and new greenfield plants, municipal and industrial plants.
- Examples include semiconductor chip manufacturing, leachate, pharmaceutical, oil and gas, paper mill, dyestuff, cosmetic and other plants.
- Also smaller mobile modular plants, e.g. for small communities, resorts, and industrial applications.

5. OUTSTANDING PERFORMANCE

BDP's performance results in:

- 99% ammonia nitrogen removal
- 95% COD removal
- 95% total nitrogen removal
- fully automatic controlled
- 50% less waste sludge discharge
- 50% less power consumption (and CO2 emissions).





For A Cleaner World

“Biological Double-efficiency Process (BDP) is an innovative, stable and highly efficient biological wastewater treatment technology.”



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Cover Photo: BDP System at an Acrylonitrile Butadiene Styrene (ABS)
Wastewater Treatment Plant, CNPC Petroleum Group, Jilin, China

Revolution makes who we are

BDP EnviroTech LLC specializes in developing and applying the most advanced and patented mainstream biological wastewater treatment technology. Biological Double-Efficiency Process (BDP) technology has been carried out in the pilot test study in Europe and Asia since 2005. BDP established our global headquarter in Maryland, USA, in 2013. At present, BDP has installed over 60 full-scale applications in water environmental facilities in Asia, Europe and the USA. It is one of the most robust biological treatment technologies in the wastewater treatment industry.



A Global Company

We are a global company with our headquarters in the USA, and subsidiaries in France and China.



State-of-the-art Technology

Published by U.S. Environmental Protection Agency and awarded by California Energy Commission.



Full Scale Applications

More than 50 full scale applications worldwide for both municipal and industrial clients.



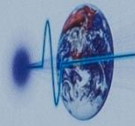
A Total Solution

We deliver cost-effective total solutions to resolve environmental issues.

BDP demonstrated a significant readiness for the worldwide market. BDP's unique and proprietary integrated system is being acknowledged by Fortune 500 companies (e.g. Vinci Group, British Petroleum and Sinopec) as ahead of its competitors. More than fifty (50) wastewater treatment plants adopted BDP process worldwide, covering industrial wastewater and municipal sewage; either for retrofitting or new construction of treatment facilities. Our largest application is a 53 MGD industrial wastewater treatment facility.



IMET



Institute of Fluorescence



SciTech



EnviroTech

Photo of BDP Headquarters at Baltimore, Maryland, USA

Global Credentials and Validation

USA

- Introduced by U.S. EPA as introduced by U.S. EPA as Emerging Technologies for Wastewater Treatment and In-Plant Wet Weather Management;
- Special recognition by U.S. Congress;
- Special recognition by State of California Senate;
- Special Grant from State of California Energy Commission;
- Special Grant from California State Water Resources Control Board;
- Tested by IMET (Institute of Marine and Environmental Technology) on confirming high efficiency performance.

Europe

- Validated by IRSTEA (French National Research Institute of Science and Technology for Environment and Agriculture). Currently merged with INRA as INRAE (French National Research Institute for Agriculture, Food, and Environment);
- Participates as the exclusive technology provider in STEP du Futur (Wastewater Treatment for Future) Program, which is sponsored by French government and carries out by INRAE.

China

- Awarded by China Chemical Fiber Association as the Top 10 and only Energy Saving and Emission Reduction Technology Achievements in Chemical Fiber Industry;
- Nationwide promoted by Industry hosted by China National Textile and Apparel Council saving and for pollution reduction for Viscose Fiber.

An Important Breakthrough

MICROBIOLOGY: Under unique operating conditions (**DO 0.3 mg/L, MLSS 8,000 mg/L**), the BDP system maximizes the amount of domesticated microorganisms, which can effectively biodegrade the organic pollutants in wastewater, while reducing waste sludge.

CARPET AERATION: The unique diffuser system provides evenly distributed aeration with efficient micromixing. The improved **OTE 52%** allows an enhanced ability for microorganisms to obtain needed oxygen. The distinctive tubular aerator installation enables automated self-cleaning and easy replacement, resulting in minimal maintenance and no operation downtime.

AIRLIFT CIRCULATION: Air is injected continuously near the bottom of a confined space of the all-in-one basin to induce a density-gradient driven circulating flow. The injected air reduces the density of the mixed liquor locally and creates a driving force due to the density difference. The driving force causes the mixed liquor to flow and creates a circulation pattern in the basin.



BDP System at a Petrochemical Facility.
Client: British Petroleum Joint Venture WWTP
Capacity: 3,600 m³/d (1 MGD)
Operating Since: 2014

Expecting Excellence

HIGH DILUTING RECIRCULATION: Through the mixing of the circulating mixed liquor and the influent at a very high dilution ratio (20 – 350:1), the concentration of pollutants entering the aeration section is significantly reduced. It provides a stable environment for the growth of microorganisms and increases the impact resistance of the system.

FAST CLARIFICATION: The unique design of high-rate clarification system serves two main purposes: 1) fast separation of sludge/solids and water to ensure low TSS in the effluent; 2) continuously circulating the Mixed Liquor Suspended Solids (MLSS) at the bottom of the clarification area to maintain the steady quantity of microorganism in the aeration tank.

ALL-IN-ONE INTEGRATED BASIN STRUCTURE: BDP technology integrates several unit processes into one treatment basin, which greatly simplifies the process flow, with benefits of 1) plant footprint reduction, 2) lower capital and operating costs and 3) ease of operations, maintenance, and control.



BDP Effluent at a Municipal Wastewater Treatment Plant.

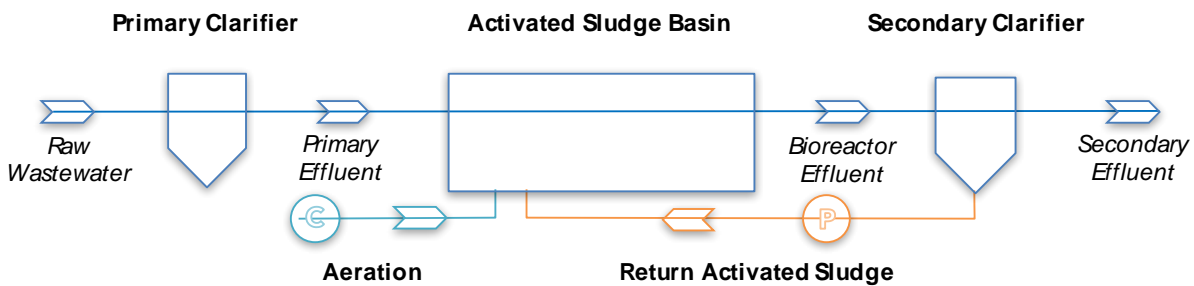
Client: Marubeni Joint Venture WWTP

Capacity: 50,000 m³/d (13.2 MGD)

Operating Since: 2007

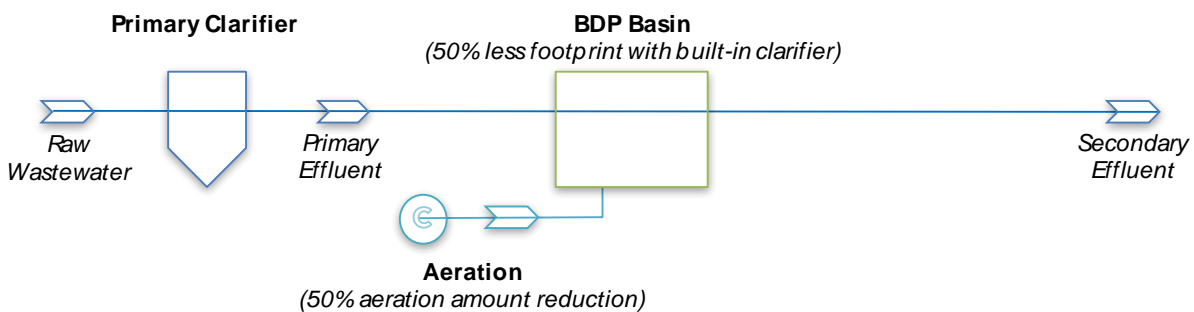
BDP Technology Advantages

CHALLENGE: The most common biological wastewater treatment process for nutrient removal is the activated sludge process. Conventional activated sludge processes, including separated anoxic and aerobic tanks with secondary clarifiers, require high CAPEX and OPEX. The current challenge for wastewater treatment plant operators is to meet the demand from the growing population, to comply with increasingly stringent regulations, and to upgrade aging infrastructure while potentially reducing energy consumptions and increasing water recycling.



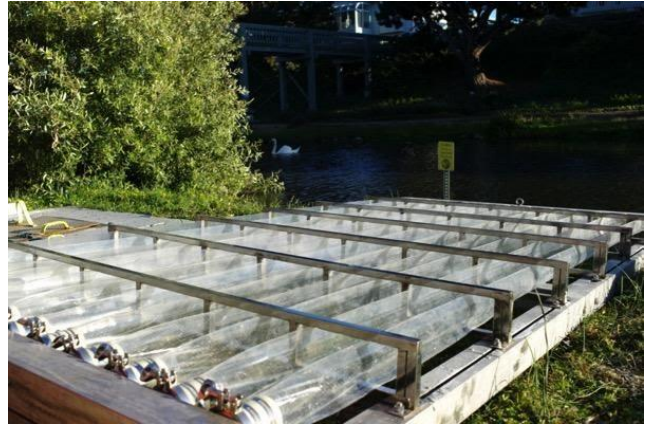
Flow Chart of Conventional Wastewater Treatment Process

SOLUTION: The Biological Double-Efficiency Process (BDP) is an important breakthrough for biological wastewater treatment, based on Simultaneous Nitrification / Denitrification (SND) principles. The BDP system combines state-of-the-art, easy to maintain Airlift Circulation and Carpet Aeration system with an integrated, all-in-one bioreactor technology, resulting in substantial reduction of capital and O&M costs, energy consumption and footprint required and water savings benefits.



Flow Chart of Biological Double-Efficiency Process

Water Quality Improvement



De Anza Santa Cruz, CA


IRSTEA REPORT

BDP Carpet Aeration System has a much higher oxygen transfer efficiency (OTE) per unit water depth (2.22%/ft per water depth) as compared to the comparable aeration system, providing a more than double efficiency and more cost effective solution for the users.

IMET REPORT

Based on the difference between the water depth and the pressure on the air lines connected to the aerators, the resistance on the air delivery devices were calculated about 29% greater resistance for air stone than the BDP air manifold assembly.

According to IRSTEAs and IMET results, the BDP Aeration System delivers significant efficiency improvement.

A large industrial aeration system, likely a BDP (Baffled Diffuser Plate) system, is shown. The central feature is a large, vertical blue pipe. This pipe is supported by a complex metal framework of vertical and horizontal beams. Numerous horizontal metal bars, which are part of the diffuser plates, are arranged in multiple rows on either side of the central pipe. Each of these bars is connected to the central pipe via a series of small, repeating mechanical components, possibly valves or connectors, which allow for the distribution of air into the wastewater. The background is a plain, light-colored wall, and the overall scene is brightly lit, highlighting the metallic surfaces and the blue pipe.

BDP Aeration System at an Industrial Wastewater Treatment Facility.
Client: Shaoxing Textile Industrial Park
Capacity: 200,000 m³/d (53 MGD)
Operating Since: 2012

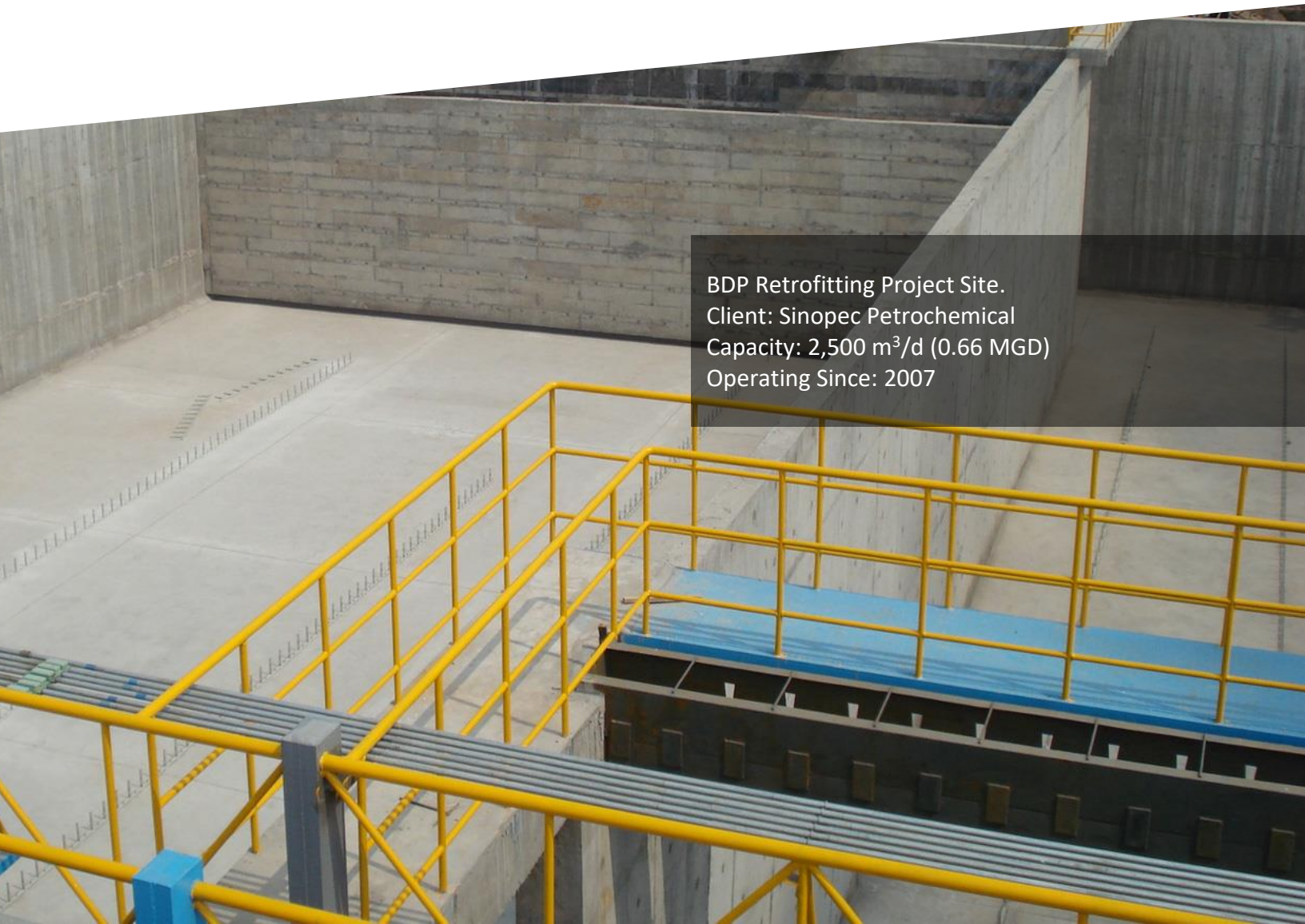
Expecting Excellence

ADVANTAGE: Compared to the conventional biological wastewater treatment process, BDP Technology provides a significant reduction in **Capital Expenditure (CAPEX)** and **Operating Expense (OPEX)** with outstanding contaminant **Removal Rates**.

Save Your Costs
50% Lower Energy Consumption
50% Less Footprint (or Double Capacity)
50% Waste (Surplus) Sludge Handling
50% O&M Cost Savings

Excellent Contaminant Removal Rate*
Up-to 96% COD Removal Rate
Up-to 99% BOD Removal Rate
Up-to 95% Total-N Removal Rate
Up-to 99% Ammonia-N Removal Rate

*Note: Data represents the performance of the BDP biological treatment process only.



BDP Retrofitting Project Site.
Client: Sinopec Petrochemical
Capacity: 2,500 m³/d (0.66 MGD)
Operating Since: 2007

Our Clients

BDP EnviroTech offers industry-focused, partnership approaches environmental solutions coupled with cutting-edge technology and data-driven analytics, we have built a track record of success.



Do

Business with Us

BDP EnviroTech always seeks dynamic partners to deliver excellent solutions to our clients. We are a trusted business partner for Private Entities, Distributorships, Public Agencies and Research Institutions.



Private Entities

BDP EnviroTech partners with private entities, environmental engineering, consulting and service companies all over the world to help their clients to improve wastewater treatment performance and reduce overall cost.



Distributorships

BDP EnviroTech, the wastewater technology company, has for the last ten years been developing its operating model and dealer support network. We are currently searching for additional marketing and dealership partners.



Public Agencies

BDP EnviroTech works in close collaboration with the federal government and local agencies such as USEPA, State Water Boards and Local Water Districts, to help the public's awareness and apply our technology to the water industry.



Research Institutions

BDP EnviroTech collaborates with Research Institutions toward the definitive objective of improving water environment by understanding the mechanism of our technology and educating the next generation water experts.

Applications

MUNICIPALITY



Municipal Wastewater
Reclamation



Landfill Leachate
Treatment



Waterbody Pollution Control
and Management

PRIVATE



Petrochemical
Pharmaceutical
Fine Chemical



Paper & Pulp
Textile & Printing



Food & Beverage
Hotel & Resort



California Energy Commission (CEC) Grant Award-
Winning Project Site at City of Rialto, California, USA
(Copyright: Google Map Data)



Contact Us

Want to get in touch with us? Give us a short description of your wastewater problem you're having. We'll get you connected to the help you need.

BDP Global Headquarters

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Chaoyang District,

Beijing 100124, China

BDP France

Le Bourg

24320 Auriac de Bourzac

France

From:

Crockett Community Services District Standard Specifications
Chapter 32-04:

M. Joint Building Sewers Not Permitted

1. Every building containing sanitary plumbing or an interior drainage system shall be connected to the sewer system. A separate building sewer shall be provided for each building.
2. Where a joint building sewer ("common lateral") preexists these Specifications, such conditions are considered non-conforming. It is the policy of the District Board that non-conforming conditions, with the exception of common lateral on the same parcel, shall be abated as soon as possible and that no permit to repair or alter a common lateral shall be issued absent determination by the General Manager that no feasible alternative exists. Where common laterals are known to exist between multiple property owners, they shall be recorded with the Contra Costa County Recorder as awaiting abatement of non-conforming conditions and the owner's shall be notified.