

# Sphinx International Airport Wastewater Treatment Plant

## **Background**

**Sphinx Airport** is located approximately 40 kilometers south of Cairo, the capital of Egypt. It is one of the main airports serving the Greater Cairo area. Its current area is 24,000 square kilometers.

Sewage treatment plants located at airports are characterized by heavy flows due the congested operations, especially holidays and vacations. This requires increased care and control over the outputs of these plants, which must conform to all local and international environmental standards.



Vales Company is a pioneering, unique, and distinguished company in the management, operation, and maintenance of sewage plants

**Valens** provides engineering, conservation, operation and maintenance services, as well as other highly qualified services resulting from its extensive knowledge of these systems and long-lasting presence on these markets





### **Operation and Maintenance Program**

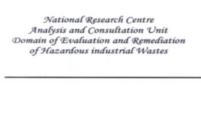
Key components of an operation and maintenance program include:

- 1. Regular inspections: Scheduled inspections help identify potential issues before they escalate into major problems. Inspections should be conducted by trained personnel who can spot signs of wear and tear or other issues.
- 2. Preventive maintenance: Regular maintenance tasks, such as lubrication, filter changes, and cleaning, can help prevent breakdowns and extend the lifespan of equipment. A preventive maintenance schedule should be established and followed consistently.
- 3. Repairs: When issues are identified during inspections or maintenance tasks, repairs should be carried out promptly to prevent further damage. Repairs should be done by qualified technicians using the right tools and equipment.
- 4. Training: Proper training of personnel is essential for the successful implementation of an operation and maintenance program. Training should cover equipment operation, maintenance procedures, and safety protocols.

By implementing a comprehensive operation and maintenance program, businesses can ensure the reliability and efficiency of their equipment, leading to improved productivity and reduced downtime

#### **Results**

Laboratory test analysis results (The results indicate that the treated wastewater meets the reuse standards outlined in Code No. 501/2015, Grade A.)





المركز القومى للبحسوث وحدة التحاليل والإستشارات المجال الاستشاري لتقييم ومعالجة المخلفات الصناعيه الخطرة

#### شركه فالنس للتجاره والخدمات محطه معالجه مطار سفنكس

التاريخ : ٢٠٢٤/٢/١

		التاريخ : ۲۰۲۱/۱۱		
*کود رقم ۲۰۱ <i>۵/۵۰</i> ۱	المخلف النهائى	الوحدة	العنصر	
	٧,٢		لرقم الهيدروجيني pH	
	77	مجم أ٠/لتر	لاحتياج الأكسجيني الكيميائيCOD	
10	1 £	مجم أ٠/لتر	لاحتياج الأكسجيني الحيويBOD	
10	٥	مجم/لتر	لمواد العالقة الكلية TSS	
۲	14	مجم/لتر	لمواد الذائبة الكلية TDS	
	٧,٣	مجم/لتر	لزبوت و الشحومات O&G	
	٠,٨	مجم/لتر	لكلور المتبقى CI	
۲.	لايوجد	MPN/100ml	العد الاحتمالي لبكتريا ايشريشيا كولاي (EC)	
١	لايوجد	بويضه / لتر	عدد بويضات النيماتودا المعويه Intestinal nematodes /lite	

<sup>\*</sup> معايير إعادة إستخدام مياه الصرف الصحى المعالجة درجه أ

التقرير

النتائج الموضحه تبين توافق مواصفات مياه الصرف الصحى المعالجه مع معايير اعاده الاستخدام كود رقم ٢٠١٥/٥٠١ درجه أ

أ.د/ فايزه على نصر وأيري الرافر

رئيس العجال الاستشارى X / Y ( 2 ) . .

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شارع البحوث - الدقى - ٢٦٢٢ - الفاهرة تليفون / فاكس : ٧٤٨٤٠٧٧ عَ٢٠

#### **Conclusion**

Thanks to the successful and anticipated results achieved by Valens Company in managing the station, the contract with them has been extended from the initial date 22/06/2021 and is still ongoing.

#### **Contact**

**VALENS** 

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