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Analysis of wastewater of AL GUNEID Sugar Factory

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

الآية

قال تعالى :

(وَجَعَلْنَا مِنَ الْمَاءِ كُلَّ شَيْءٍ حَيٍّ)

سورة الانبياء الاية 30

صدق الله العظيم

Dedication

- *To worship none of small.....*
- *To Mom and Dad*
- *To each of the characters and taught me specially
of Dr. Salma Omer Al-Haq Ali*
- *To my fellow trail of science and knowledge.*
- *To all of you dedicated this research, hoping that the
diameter utilized remains in a sea of science broad
tempestuous.*

Husam

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That there was deserves thanks and praise after god in the completion of the thankfulness of Dr Salma Omer al-Haq Ali supervisor of the study and follow-up and fine precious advice and thanksgiving after Dr sheikh Idreis for the handling fatherly and humanitarian and noble .

Brother Mr. Abdul Aziz Abubakar not forgets all those who contributed even going so far as this study saw the light . and ask the God to reward every one's best reward.

Husam

Abstract

No doubt sugar industry has A very economical and social importance, but It's also has many disadvantage, first of these disadvantage is wastewater.

This research investigate the sources of wastewater from sugar industry such as cane washing water, filtration water, condenser water, boiler water and from molass water.

Its study investigate the also treatment method of wastewater from sugar industry (biological and chemical).

The research use method of wastewater from sugar industry by analytical performing tests to measure (TSS,TDS,PH,BOD,COD....etc) and then determine if this water can be used for recycling and irrigation .

When we compare the results obtained from analysis samples are compound with standards, it is found that huge difference which confirms that of the treated wastewater cannot he used for human uses but can used for irrigation.

مستخلص الدراسة

- لاشك ان صناعة السكر لها اهمية اقتصادية واجتماعيه بالغهإلا ان لهذه الصناعه الكثير من السلبيات المتمثله في مياه الصرف الصناعيه (wastewater).
- تناول البحث مصادر مياه الصرف الناتجة من صناعة السكر معددا هذه المصادر ,مياه غسيل القصب ,مياه المرشحات ,مياه المكثفات ,مياه الغلايات ,مياه غسيل المولاس .
- تناول البحث ايضا المخاطر البيئيه الناتجه من طريقة التخلص من مياه الصرف الصناعيه مباشرة في النيل دون معالجتها .
- تناول البحث ايضا طرق معالجة مياه الصرف الناتجه من صناعة السكر (الاحيائيه,والكيميائيه).
- كما تناول البحث طرق تحليل مياه الصرف الناتجه من صناعة السكر بإجراء اختبارات لقياس (TSS,PH,TDS,.....etc) ومن ثم تحديد امكانية استخدام هذا الماء من عدمه .
- عند مقارنة النتائج المتحصل عليها مع المقاييس العالميه وجد ان هنالك فروقات شاسعه مما يؤكد عدم صلاحيه مياه الصرف الناتجه من صناعة السكر للاستخدام الادمي وغيره الا بعد معالجتها .

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