
計畫成果摘要

一、計畫名稱：

106 年度「嘉義市水污染源稽查與水污費徵收查核暨畜牧業沼液沼渣農地肥分使用等二項計畫」

二、執行單位：

元科科技股份有限公司

三、計畫主持人：

黃招斌 技師

四、執行開始時間：

106 年 2 月 27 日

五、執行結束時間：

106 年 11 月 30 日

六、期末報告修正稿完成時間：

106 年 12 月 04 日

七、報告總頁數：

260 (不含附件)

八、使用語文：

中文

九、中文摘要關鍵詞：

水污染、水污費查核、水環境巡守隊、沼液沼渣農地肥份使用

十、中文摘要：

本計畫工作主要可區分為二個子計畫，分別為(一)水污染源稽查與水污費徵收查核計畫、(二)畜牧業沼液沼渣農地肥分使用計畫，執行至 106 年 11 月 30 日，工作項目及執行成果統計，摘要如下：

- (一) **每月水體水質監測作業：**每月進行一次本市牛稠溪、八掌溪流域(含區域性各級排水)、蘭潭水庫水體之水質定期監測，監測成果並公開於全國水質監測網，並每季製作報表交予機關備查，詳第 3.1.1 節。
- (二) **水污染列管事業稽查與水質採樣送驗：**自 11 月 30 日止，已完成 105 家次巡查作業及 56 家次水質採樣檢測作業，完成率已達 100%，詳第 3.1.2 節。
- (三) **水污染列管事業深度查核：**針對高污染與違反水污染相關法規之重點事業、機關交辦對象等進行主動、積極之巡查及採樣。目前已完成 8 家次列管深度查核，分別為力克企業有限公司、凱揚精密有限公司、台灣中油股份有限公司溶劑化學品事業部、戴德森醫療財團法人嘉義基督教醫院、耐斯廣場股份有限公司、台灣榮民總醫院嘉義分院、嘉義市肉品市場股份有限公司及衛生福利部嘉義醫院，詳第 3.1.3 節。
- (四) **水質自動連續監測系統：**每月使用水質連續自動監測系統執行列管事業 72 小時連續監測，依據每月現場稽查狀況選定每月預定執行事業單位，目前已完成台灣史丹利安防系統股份有限公司下游處、巨裕五金鐵鍊有限公司二廠下游處、巨裕五金鐵鍊有限公司二廠上游處、永金欣表面處理有限公司下游處、盧亞人醫院下游處、民烽有限公司下游處、尊皇大飯店股份有限公司下游處、家福股份有限公司北門門市下游處及凱揚精密有限公司下游處等，共 9 處進行水質自動連續監測，詳第 3.1.4 節。
- (五) **列管事業廢水處理設施功能評鑑作業：**今年度預計執行事業廢水處理設施之功能評鑑作業，經環保局確認名單後 106 年針對勤億蛋品科技股份有限公司、巨裕五金鐵鍊有限公司二廠、台灣史丹利安防系統股份有限公司、永金欣表面處理有限公司、嘉義鐵線製品股份有限公司及遠東機械工業股份有限公司等執行 6 家列管事業進行功能評鑑作業，詳第 3.1.9 節。

(六) **辦理水污染法規政策宣導說明會**：本計畫今年度共辦理 5 場次法規說明會，已於 6 月 21 日、8 月 24 日上午、下午、9 月 22 日與 10 月 31 日於嘉義市焚化廠辦理五場次法規說明會，使業者能確實執行及了解水污染防治措施相關規定詳第 3.1.13 節。

(七) **水污染防治費徵收查核及運用成效評估**：環保署 106 年 3 月 28 日以環署水字第 1060023084 號來函通知本市 105 年水污費申報有疑義之指定查核對象及應查核期別名單，環保署考量各縣市之徵收家數及查核資源各異，爰依水污費應申報家數為基準，並分二階段提報查核結果，本市第一階段應 106 年 5 月 30 日前完成 10 家查核並函送環保署(含查核紀錄)，第二階段應於 10 月 31 日前完成全數查核並函送環保署(含查核紀錄)，至 11 月 30 日第一階段及第二階段共完成 23 家水污費查核作業，詳第 3.2 節。

(八) **巡守隊輔導與教育訓練暨聯繫會議**：本計畫需辦理 4 場次巡守隊教育訓練暨聯繫會，已於 6 月 3 日、7 月 28 日、9 月 18 日及 10 月 24 日辦理四場次教育訓練，透過老師講解導覽解說技巧，提升推廣環境教育的未來空間，使巡守隊員在面對民眾有關水環境巡守發問或號召民眾參與時，透過這溝通的橋樑讓來自不同背景、年齡、教育程度的民眾能與水環境巡守互動。而目前本市共有 5 隊巡守隊，為使水環境巡守隊能深入了解河川污染防治環境、保育及生物多樣性之重要性，並提升巡守專業能力以及多元化特色發展，分別於 7 月 13 日、9 月 29 日邀請洪慶宜及丁建原老師等二位專家學者進行本市各隊巡守隊現場輔導作業，依據各隊在地特色及區域性給予相關建議，以利巡守隊永續經營，詳第 3.3.3 及 3.3.4 節。

(九) **河川淨溪(潭)活動**：響應 422 世界地球日環保署舉辦『106 年地球日全國淨灘活動』，已於 4 月 16 日上午 7 點於蘭潭水庫辦理清淨蘭潭、清淨嘉園活動，本次淨潭活動參與人數總計為 918 人，共清出 37.2 公斤垃圾及 17.4 公斤回收物，並回收近千個廢塑膠袋及 100 公斤乾電池，詳第 3.3.6 節。

(十) **畜牧業沼液沼渣農地肥份使用**：為達沼液、沼渣資源充分利用及保護水體目的，現行畜牧糞尿之排放係以廢(污)水或廢棄物的認定，轉化為肥分之資

源化管理，為讓畜牧糞尿回歸到資源化管理方式，環保署積極推動畜牧業沼液沼渣農地肥分使用。本市推動明秀畜牧場進行沼液沼渣資源利用，於 4 月 27 日進行該畜牧場之沼液、沼渣成分分析，且於 6 月 30 日於施灌農地區域採集 3 點次土壤檢測及 1 點次地下水檢測，已於 8 月 17 日提送明秀畜牧場沼液沼渣農地肥份使用申請書至本市農林畜牧科進行初審，並於 8 月 21 日由本市農林畜牧科函轉農委會進行複審，農委會已於 9 月 20 日函覆審查結果，申請書經修正後同意通過，農林畜牧科於 11 月 7 日正式發文通過明秀畜牧場沼液沼渣農地肥分使用計畫申請書。並對今年無意願申請沼液沼渣之業者金聰畜牧場及嘉義大學畜牧場等 2 家進行 3 次稽查採樣，詳第 4.2 節。

(十一)其他配合辦理事項：

- 1.陳情稽查：統計至 11 月 30 日共有 35 件陳情案件，包括：河川及排水溝污染案件 10 件、水庫污染案件 2 件、廢水排放案件 9 件、水溝異味 10 件、豬屎異味 4 件，皆已派人員現場稽查完畢並告知陳情人處理情形，異味案件現場稽查皆無聞到異味，另外廢水排放及水質異常情形，現場稽查情形無查獲異狀或為嘉義縣轄區權責，皆轉請相關權責單位進行改善，詳第 3.1.12 節。
- 2.新聞稿：本計畫分別於 3 月 13 日、4 月 11 日、9 月 5 日及 9 月 18 日各提交 1 則新聞稿，至 106 年 11 月 30 日共計提送 4 篇新聞稿，新聞稿議題分別為「無磷清潔做環保，河川水質變更好」、「千人一起來淨潭，手護嘉園、手護地球」、「化糞池水肥按時清 環境衛生更安心」及「水污資訊大公開，重大違規皆現形」，其中淨潭新聞稿登載於中國時報，詳第 3.6.1 節。

Abstracts

The main work of the project can be divided into two sub-projects, namely : (1) Water Pollution Sources Inspection and Water Pollution Control Fee Collection, (2) Piggery Waste and Digestate for Use as Farmland Fertilizer, the implementation of November 30, 2017, work items and performance statistics, summarized as follows :

- (1) **Water quality management of environmental water body** : Water quality management once a month of Niuchou River, Bajhang River(including drainage at regional level) and Lan-tan Reservoir. The results of the monitoring are disclosed to Environmental Water Quality Information and the quarterly reports are submitted to the authorities For reference, please refer to chapter 3.1.1 for more detail.
- (2) **Inspection of water pollution management institution and examination of water quality** : As of November 30, inspections of 105 industries and 56 sampling tests have been completed with a completion rate of 100%, please refer to chapter 3.1.2 for more detail.
- (3) **Strengthen inspection of water pollution management institution** : For the high pollution and violation of water pollution-related laws and regulations of the key undertakings, agencies to handle the object such as active and active inspection and sampling. Strengthen Inspection of 8 industries have been completed, namely : Li Ker Co., Ltd., Kai Yang Co., Ltd., CPC Corporation, Taiwan Solvent & Chemical Business Division, Ditmanson Medical Foundation Chia-Yi Christian Hospital, Nice Plaza Co., Ltd., Chiayi Branch, Taichung Veterans Hospital, Chiayi Meat Market and Chia-Yi Hospital, Ministry of Health and Welfare, please refer to chapter 3.1.3 for more detail.
- (4) **The water quantity automatic survey system** : The use of Water Quantity Automatic Survey System implementation of water pollution management continuous monitoring 72 hours every month, according to the monthly on-site inspection status selected monthly scheduled implementation of institutions, 9 industries have been completed, namely : downstream of Stanley Security Solutions Taiwan Co., Ltd., upstream and downstream of Juyu No.2 Co., Ltd., downstream of Yongjinxin Co., Ltd., downstream of Lu Ya-ren Hospital, downstream of Ming-Fong Plating Co., Ltd., downstream of Chiayi Tsun Huang Hotel, downstream of Carrefour Beimen Store and downstream of Kai Yang Co., Ltd., please refer to chapter 3.1.4 for more detail.
- (5) **Management of wastewater treatment facilities functional evaluation operations** : After confirming the list by Environmental Protection Bureau, Chiayi city (CYCEPB), it will carry out the function evaluation of 6 industries, namely : Chinyi Eggs Technology

Co., Ltd., Juyu No.2 Co., Ltd., Stanley Security Solutions Taiwan Co., Ltd., Yongjinxin Co., Ltd., Chiayi Wire Products Co., Ltd., please refer to chapter 3.1.9 for more detail.

(6) Holding meetings for related policies or law announcement of water pollution :

Holding 5 meetings for related policies or law announcement of water pollution in Chiayi Incineration Plant, please refer to chapter 3.1.13 for more detail.

(7) Water pollution control fee collection and evaluation of the effectiveness of use :

On March 28, 2017, EPA notified the letter No. 1060023084 to notify Chiayi of the 2016 water pollution control fee collection declared mistakes and should check the object, EPA considers the number of requisitioned households in each county and check the resources are different, according to the number of households should be declared as the basis for water and sewage charges, and submit the results of the inspection in two phases, the first phase of the city should be completed by May 30, Ten check-ups were sent to the EPA (including check-in records). The second phase should be completed by October 31 full check and sent to the EPD (including audit records). By the first and second phases of November 30, a total of 23 industries water pollution control fee collection have been completed, please refer to chapter 3.2 for more detail.

(8) Patrol team counseling and education training and contact meetings :

This program will be subject to four rounds of team training and liaison meetings. Four training sessions have been conducted on June 3, July 28, September 18 and October 24 to guide teachers through the guide , Enhance the promotion of environmental education in the future space so that patrolling members in the face of the public about the water environment patrol questioning or call for public participation, through this bridge of communication so that people of different backgrounds, ages, education levels can with the water environment patrol Keep the interaction. At present, there are 5 team patrol teams in the city. In order to enable water environment patrol teams to understand in depth the importance of river pollution prevention and control environment, conservation and biodiversity, and enhance patrolling professional capabilities and diversified development, On January 13 and September 29, two experts and scholars, including Dr. Hong and Dr. Ding, were invited to conduct on-site counseling for each team of the teams in the city. Relevant proposals were made according to the characteristics of the teams and their regionalities so as to facilitate the continued use of the team, please refer to chapter 3.3.3 and 3.3.4 for more detail

(9) Coastal(reservoir) cleanup :

Response April 22 World Earth Day, EPA hosts "2017 of Earth Day Coastal cleanup ". On the April 16 in Lan-tan Reservoir for clean Lan-tan, clean Chiayi activities. The total number of participants in this event was 918. A total of

37.2 kg of rubbish and 17.4 kg of recyclables were cleared and nearly 1,000 waste plastic bags and 100 kg of dry cell were recovered, please refer to chapter 3.3.6 for more detail.

(10) Piggery waste and digestate for use as farmland fertilizer : In order to reach the goal of making full use of biogas slurry and biogas residue resources and protecting water bodies, the current discharge of livestock excrement is converted into the management of fertilizer by the identification of waste (waste water) or waste, so that livestock excrement can be returned to resources Management approach, EPA to actively promote piggery waste and digestate for use as farmland fertilizer. Chiayi City to promote Mingxiu livestock ranch biogas residue was resource utilization, on April 27 for the livestock ranch of biogas residue, biogas residue composition analysis, and on June 30 in the area of irrigated farmland collected 3 sites testing and 1 site groundwater testing, has been sent on August 17 Mingxiu livestock farms biogas residue fertilizer application of farmland to the city of agriculture, forestry, animal husbandry for the first instance, and on August 21 by the city of Agriculture, Forestry and Animal Husbandry Branch letter to farmers Committee reviewed the results of Council of Agriculture, Executive Yuan on September 20 has been covering the review results, the application was approved by the amendment, the Agriculture, Forestry and Animal Husbandry Branch on November 7 formally issued by the Mingxiu livestock ranch biogas slurry fertilizer application plan book. This year, we also conducted 3 sampling inspections for 2 companies, such as Jin Cong livestock ranch and Chiayi University livestock farms who are not willing to apply for biogas slurry residue this year, please refer to chapter 4.2 for more detail.

(1) Other cooperation matters : (a) A total of 35 cases were reported as at November 30, including 10 cases of river and gutter pollution, 2 cases of reservoir pollution, 9 cases of wastewater discharge, 10 odor of ditch, 4 cases of smell of pig feces, All have sent personnel on-site inspection completed and informed Chen Valentine processing situation, odor inspection on-site no smell smell cases, in addition to wastewater discharge and water quality anomalies, on-site inspection of the situation without exception or to investigate the Chiayi County jurisdiction rights are transferred to the relevant The responsible unit to improve, please refer to chapter 3.1.12 for more detail. (b) Press Release: The project submits 1 press release each on March 13, April 11, September 5 and September 18, respectively. By November 30, 2017, a total of 4 press releases, please refer to chapter 3.6.1 for more detail.