**LUB NCAIJ NTUJ NO XYOO 2022**

Kev Tswj Huab Cua Nitrogen Uas Yuav Nqes rau Hauv Av

Cov neeg cog qoob loo ntawm Kings River Water Quality Coalition (KRWQC) tau tshaj tawm lawv cov kev siv nitrogen rau cov qoob loo uas tau sau txij li xyoo 2016. Cov neeg cog qoob loo kuj tau tshaj tawm txog cov kev coj ua uas lawv siv los txhim kho kev siv dej thiab kev siv nitrogen. Cov kev coj ua no yog ib qho tseem ceeb los txo cov peev xwm ntawm nitrogen kom ntws los ntawm cov hauv paus thiab muaj feem cuam tshuam cov dej hauv av. Cov neeg cog qoob loo tuaj yeem ua tau 1) txo cov dej ntws, vim tias dej tsav cov nitrates hauv cav, los sis 2) txo cov kev siv nitrogen. Muaj kev hloov pauv ntawm kev siv dej thiab cov nitrogen uas tau sau tseg hauv daim ntawv qhia kev siv dej thiab nitrogen. tshwj xeeb, Kwv yees li ntawm 179,000 daim av tau hloov mus rau lub tshuab dej siab kom txo cov kev siv dej(Daim duab qhia 1).

Kev hloov mus rau kev siv dej siab tsis yog kev hloov pauv nkaus xwb. Table 1 (Qhov thib ib) qhia txog thaj chaw cuam tshuam nrog lwm yam kev coj ua tshiab uas tau qhia nyob rau xyoo 2020 thiab 2021. Dhau ntawm no lawm cov neeg ua liaj ua teb kuj tau ntxiv cov kev qhia rau kev tswj cov nitrogen rau hauv lawv lub thawv tswj, Qhov no suav nrog kev sim ntxiv (dej, av thiab cov ntaub so ntswg / ntaub so ntsej muag), Kev faib thaum lub sij hawm cov nroj tsuag yuav tsum tau loj hlob thiab rau chiv kom cov nroj tsuag zoo dua (Table 2) Qhob thib ob.

*Daim duab qhia 1. 10 Cov kev hloov pauv qoob loo nrog cov kev pab cuam dej siv.*

Table 1 (Qhov thib ib). Cov kev hloov pauv ntawm kev pab cuam dej siv kom zoo xyoo dhau xyoo (YOY)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Kev pab cuam dej siv kom zoo** | **Thaj tsam xyoo 2020** | **Thaj tsam xyoo 2021** | **Qhov hloov ntawm thaj tsam YOY** | **% qhov hloov YOY** |
| Kev hloov uas siv laser | 9,458 | 11,375 | 1,917 | 20% |
| Kev siv pressure bomb | 1,004 | 1,347 | 343 | 34% |
| Neutron probe av noo | 2,079 | 2,594 | 515 | 25% |
| Kev siv ET hauv kev teem caij siv dej | 7,736 | 9,600 | 1,864 | 24% |
| Kev siv khoom ntsuam qhov noo | 5,641 | 7,007 | 1,366 | 24% |
| Txiav txim kev siv dej uas tsim nyog | 14,496 | 17,035 | 2,539 | 18% |

Table 2 (Qhov thib ob). Cov kev hloov pauv ntawm kev pab cuam dej siv kom zoo xyoo dhau xyoo (YOY)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Kev pab cuam dej siv kom zoo** | **Thaj tsam xyoo 2020** | **Thaj tsam xyoo 2021** | **Qhov hloov ntawm thaj tsam YOY** | **% qhov hloov YOY** |
| Cheeb tsam qoob loo | 1,705 | 2,345 | 640 | 38% |
| Kev loj hlob | 8,876 | 10,894 | 2,018 | 23% |
| Daim ntawv thov xyooj ntoo N | 7,626 | 9,271 | 1,645 | 22% |
| Kev sim kev pab cuam dej siv N | 10,313 | 12,649 | 2,336 | 23% |
| Kev sim av | 11,269 | 13,421 | 2,152 | 19% |
| Kev sib faib siv chiv | 12,305 | 14,352 | 2,047 | 17% |
| Kev sim ntaub so ntswg/so ntsej muag | 10,907 | 13,034 | 2,127 | 20% |
| Daim ntaw thov kev hloov pauv uas siv GPS | 157 | 287 | 130 | 83% |

**Kev Teem Caij Lub Rooj Sib Tham Xyoo 2023 thiab Well Webinar (Lub Rooj Sib Tham Hauv Online)**

Txhua tus tswv cuab, los sis cov neeg sawv cev raug xaiv koom nrog hauv qhov kev nthuav qhia hauv ib xyoo ib zaug (saib lub caij nyoog). Qhov no tsis yog kev npaj pab cuam dej siv thiab nitrogen txhawm rau kev ntuav qhia daim ntawv pov thawj ntawm lub rooj sib tham. Lub rooj sib tham txhua xyoo hloov kho qhov kev pab cuam, well webinar (lub rooj sib tham hauv online) yuav tham txog kev tso cai thiab tso tseg. Txhua qhov kev sau npe ntawm lub rooj sib tham thiab webinar (lub rooj sib tham hauv online) nyob ntawm: <https://kingsriverwqc.org/workshops/>

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Hli/Hnub Tim** | **Sij Hawm** | **Lub Nroog** | **Thaj Chaw** | **Hom** |
| January | | | | |
| 12 | 2:00 PM | Online | Zoom | Lub Rooj Sib Tham |
| 19 | 9:00 AM | Hanford | Kings Fairgrounds | Lub Rooj Sib Tham |
| 26 | 9:00 AM | Selma | Portuguese Hall | Lub Rooj Sib Tham |
| 31 | 9:00 AM | Online | Zoom | Lub Rooj Sib Tham |
| February | | | | |
| 2 | 9:00 AM | Online | Zoom | Well Webinar |
| 8 | 9:00 AM | Easton | CPDES Hall | Lub Rooj Sib Tham |
| 16 | 9:00 AM | Kerman | Community Center | Lub Rooj Sib Tham |

**Kev Xa Ntawv Xov Xwm:** Xyoo tas los, cov tswv cuab tau pib pom cov lus nug thaum nkag mus rau hauv KRWQC Tus Tswv Cuab Portal nug lawv kom paub meej tias lawv txoj kev xa ntawv xov xwm. Kev xa khoom muaj xws li kev xa ntawv ib txwm muaj, email, los sis tsis muaj ntawv xov xwm. Pib txij lub caij nplooj ntoos hlav 2023 tsab ntawv xov xwm, KRWQC yuav pib siv cov tswv cuab tshwj xeeb rau kev xa khoom. Yog tias koj tsis tau teeb tsa koj txoj kev xa khoom xa tuaj los sis xav hloov kho koj qhov chaw tam sim no, Koj tuaj yeem ua qhov no los ntawm koj tus tswv cuab portal. Cov tswv cuab uas tsis tau teeb tsa lawv qhov chaw yuav tau txais ntawv xov xwm los ntawm email.

**Ntaub Ntawv Ntiag Tug Ntawm Pawg Thawj Coj, Mark Unruh**

*Muab me ntsi keeb kwm qhia txog ntawm koj tus kheej*

Kuv yug thiab loj hlob hauv nroog Kingsburg, xeev California. Thaum kuv loj hlob kuv tau pab kuv txiv ntawm ib tsev neeg ua liaj ua teb uas feem ntau loj hlob nrog txiv hmab txiv ntoo thiab qoob loo. tom qab kawm tiav high school, Kuv tau mus kawm hauv California Polytechnic University, San Luis Obispo majoring hauv Agricultural Engineering. tom qab kawm tiav, Kuv pib ua hauj lwm ua tus tsim qauv nrog MVP Hydratech thiab kuv tsim cov hydraulic thiab pneumatic. Tom qab ua hauj lwm nrog MVP Hydratech, kuv tau mus ua hauj lwm ua tus engineer kev pab cuam dej siv nroog Fresno tsim cov kwj dej thiab cov kav dej. Xyoo 2005 kuv tau pib ua hauj lwm ua tus engineer nrog J. G. Boswell Company, thiab tam sim no kuv yog tus thawj coj saib xyuas dej ntawm Corcoran Ranch.

*Koj puas ntseeg tias lub koom haum tuaj yeem ua hauj lwm koom zoo tshaj plaws rau nws cov tswv cuab?*

Kuv tau ua ib tug tswv cuab ntawm KRWQC pawg thawj coj saib ntau xyoo uas sawv cev rau cov koom haum pab cuam dej thiab cov tswv av sab qab teb ntawm Hanford thiab thaj tsam ib puag ncig ntawm Corcoran. Kuv yog tus nruab nrab ntawm lub koom haum "tus neeg nruab nrab" ntawm Lub Xeev thiab Cov Thawj Coj Hauv Cheeb Tsam thiab cov tswv av hauv Tulare Lake Basin. Yog tsis muaj tsoom fwv kev sib koom tes, Cov tswv av yuav tsum muaj kev cuam tshuam nrog cov tswj hwm ntawm tus kheej. Lub koom haum tso cai rau cov neeg uas muaj kev paub hauv zej zog los coj kev txhim kho cov kev pab cuam uas ua tau raws li lub xeev thiab cheeb tsam pawg thawj coj ntawm kev txo cov nqi rau cov tswv av.