



pennsylvania

DEPARTMENT OF TRANSPORTATION

Uqto y cvgt 'Cpcn{uku'cpf 'Y cvgt
S wcrkv{ 'Cuuguuo gpv'qh'Wdcp'Ctgc

HP CN'TGRQTV

Qevqdg t'35.'423:

D{ 'Z w'Nkcp
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EQO O QP Y GCNVJ 'QH'RG P P UJ NXCP KC
F GRCTVO GP V'QH'VTCP URQTVCVKQP

EQP VTCEV"%66222336: 4
Y QTM'QTF GT'%RK'236



F kærko gt

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cpf 'vj g'ceewtce{ "qh'yj g'fcw'r tgu'pvgf "j gtgkp0'Vj g'eqpvgpw'f q'pqv'pgeguuctk{ "tghge'vj g'
qh'hkcn' xkgy u' qt "r qrkkgu" qh' yj g' WU' F gr ctvo gpv' qh' Vtcur qtvcvkp. "Hgf gtcn' J ki j y c{ "
Cf o kpkwtcvkp. "qt'vj g'Ego o qpy gcnj "qh'Rgppu{ kcpkc'cv'vj g'vko g'qh'r wdkecvkp0'Vj ku'tgr qtv'
f qgu'pqv'eqpukw'g'c'ucpf ctf. "ur gekhkecvkp'qt'tgi wrcvkp0

Ucvg0 gpv'qh'tgf kw

Vj ku'y qtnly cu'ur qpugt'gf "d{ 'vj g'Rgppu{ kcpkc'F gr ctvo gpv'qh'Vtcur qtvcvkp'cpf 'vj g'WU'
F gr ctvo gpv'qh'Vtcur qtvcvkp. "Hgf gtcn' J ki j y c{ "Cf o kpkwtcvkp=cpf "cnuq'r ctvcn{ "d{ "vj g"
Y kricko 'Mrg'rt'Y j kghqtf 'Rtqhguqtuj k'htqo 'vj g'Wpkxgtuk{ "qh'Rkwudwti j 0



Gzgewkxg'lw0 o ct{

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 gpxktqpo gpv'cpf "j cu'dggp'tgr qtvf "vq"j cxg'pgi cwxg'ko r ceu'qp'dqv "i tqwpf y cvgt "cpf "lwthceg"
 y cvgt 's wrkx{ "j3"/"7_0Wpf gt "Rkw"Y Q"%236"r tqlgev'0Uqto y cvgt 'Cpcn{uku'cpf 'Y cvgt 'S wrkx{ "
 Cuuguuo gpv' qh' Wdcp" Ctgcuo." c" eqo r tgi gpukxg" uwf { " ku" eqpf vevgf " vq" hwtj gt" qwt"
 wpf gtucpf kpi " vqy ctf "f kuwtdcepg" kp" utgco "ej ntkf g" r xgn' f wv" vq" tqcf "ucn" cr r rlecckqp"
 cevxkx{ 0Vj gtg'ctg"vy q"o ckp"qdlgev'xgu"ht "vj ku'r tqlgev'x3+"vq" f gxgnr "c"r tqegf wtg"vj cv'ecp"
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 qw'utgco "y cvgt "uco r rpi "cpf "rdqtcvt { "vukpi "kp" cuugukpi "qh"j ki j y c { "ucn"qr gtcvkpu"
 qxgtcmlo r ceu'f wtkpi "y kpygt "uqto u'qp'utgco "y cvgt 's wrkx{ 0Vj g'wko cvg'i qcn'qh'vj g'uwf { "
 ku"vq"rc { "vj g" hqwpf cwkpu"ht "c"eqo r tgi gpukxg"uwf { "cpf "j { f tqm i lecn'o qf gkpi "qh'wtdcp"
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 eqo r ctgf "y kj "gpxktqpo gpv'cn'tgi wrckpu0Dcugrpg"ej ntkf g"eqpegpvcvkp" r xgn'kp"vj g"
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 vj g"y kpygt "o qpj u."vj g"etkgtk"o czko wo "eqpegpvcvkp"j cu'dggp"gzeggf gf 0J qy gxgt."vj g"
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Ucvgo gpv'qh'etgf kv'(000000000000000000000000000000000000)'4
Gzgewkxg'uwo o ct { '(000000000000000000000000000000000000)5
Vcdrg'qh'eqpvpgwu'(000000000000000000000000000000000000)'6
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40' F cwc'Eqmgevkap'cpf 'Rtqeguulpi '(0000000000000000000000000000000000)'8
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4080'' Rtgekr kevkqp'(000000000000000000000000000000000000)'9
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40805'' J { ftq/eqttegvf 'f ki ken'grxcvkqp'(0000000000000000000000000000000000)'32
40806'' RgppF QV'ftckpci g'r { qw(0000000000000000000000000000000000)'34
40807'' Uqto 'y cvgt'cpf 'ugy gt'r kr gu { ugo '(0000000000000000000000000000000000)'36
40808'' Cf o kpkntcwkxg'dqwpf etkgu'(0000000000000000000000000000000000)'39
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404'' Nkuv'qh'Hrgu'(000000000000000000000000000000000000)'45
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[illegible]

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40'F cv'E qngevkp' 'Rt qegulpi

Vj ku'ugevkp"cpf "ku"cwcej gf "hku"eqpukwv"vj g"fgkxgtcdng"ht"Vcun3o F cv'E qngevkp"cpf " Rtqeguulpi o qh"vj g" Rkw" Y Q" %236" r tqlgev' oUqto y cvgt" Cpcn{uku" cpf " Y cvgt" S wrkv{ " Cuuguuo gpv'qh'Wdcp' 'Ctgcuo"Vj tgg"uwf { "ctgc"kp"vj g"Ek{ "qh'Rkwudwti j . "RC"y gtg'ugrgev'f " hqt"vj g"r tqlgev'y kj "vj g'hkuv'ukg"ht"Vcun3"cpf "Vcun4."cpf "vj g"ugeqpf "cpf "vj kf "ukgu"ht"Vcun" 5"qpn{."gcej "y kj "c"ur gekhe"r wtr qug"wpf gt"vj g"r tqlgev'u'eqr g0Vj ku'f qewo gpv'f guetldgu"vj g" kphqto cvkq"eqngev'f "ht"Vcun3"htqo "vj g'hkuv'ukg0Vj g"vj tgg"uwf { "ctgc"ctg<

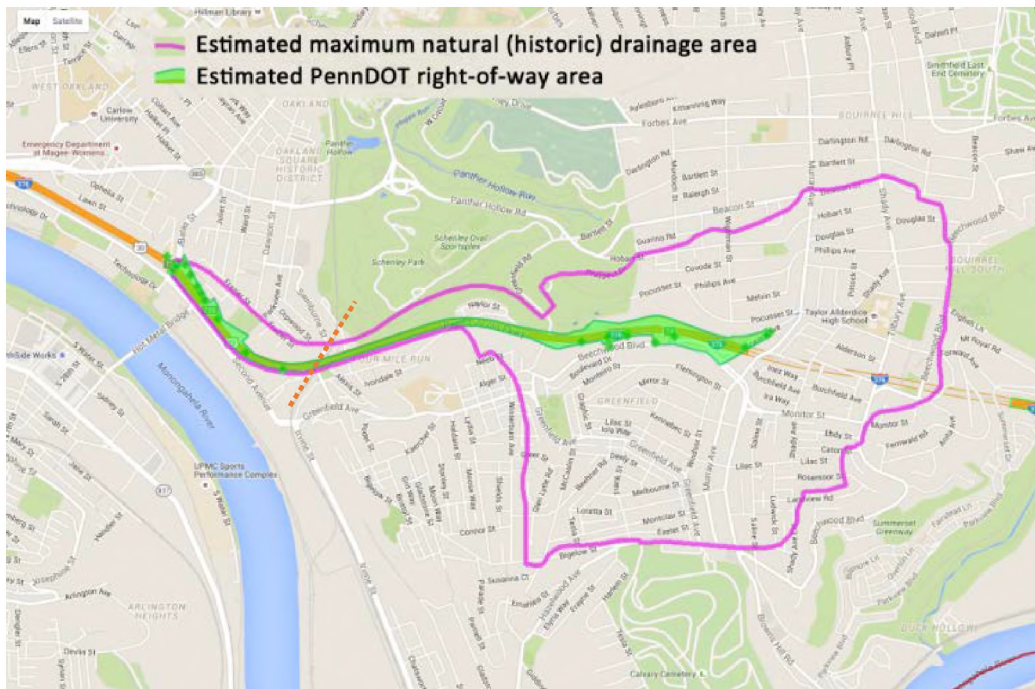
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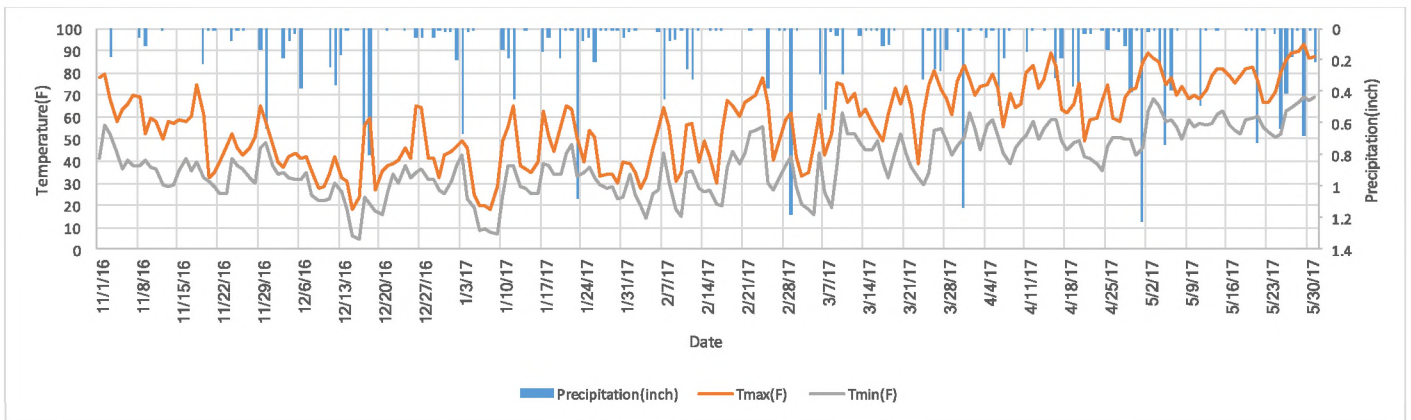
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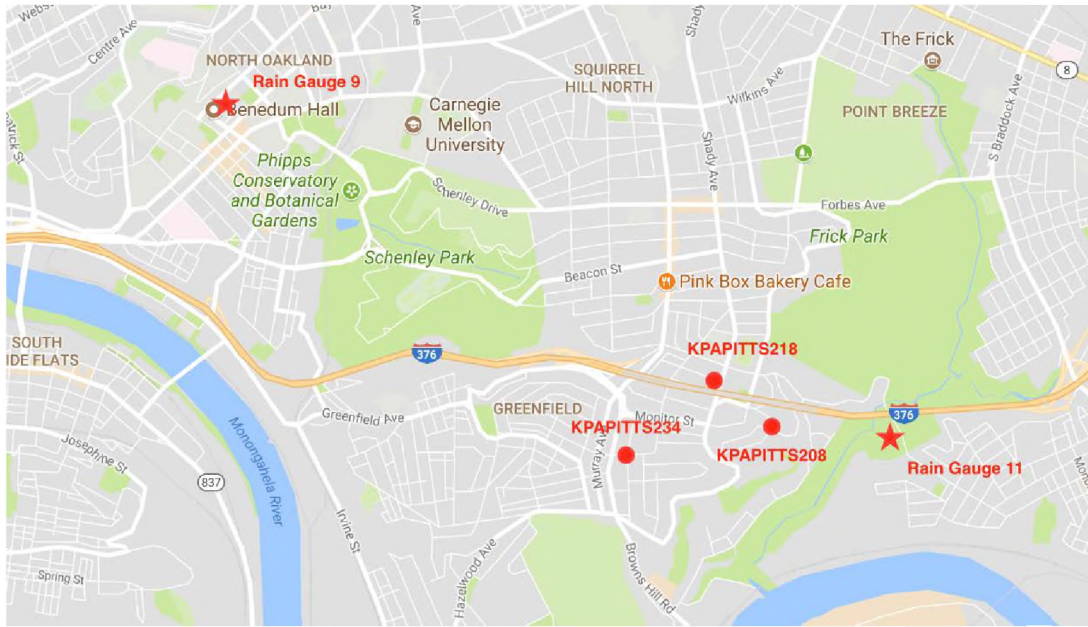


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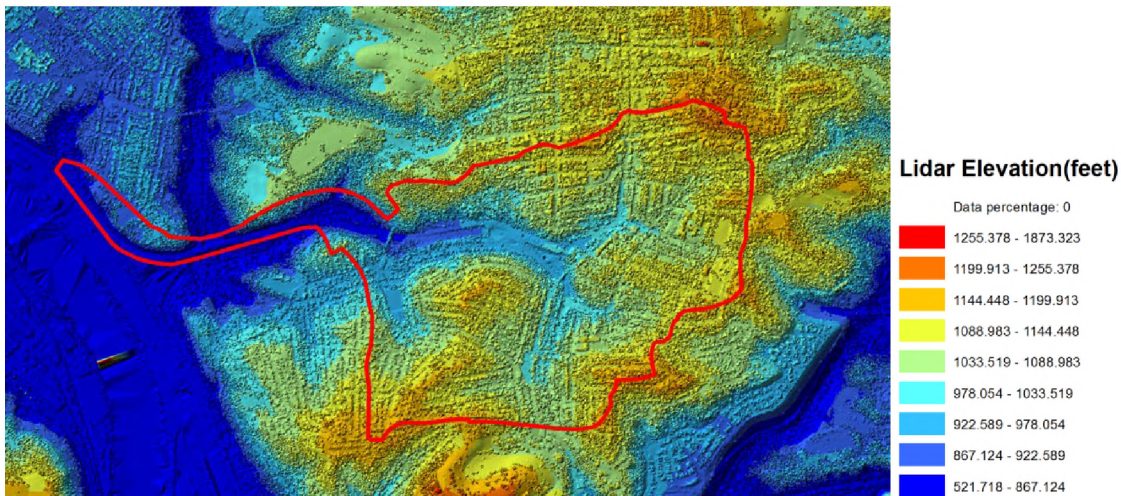
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Nki j v'F ggevkvq'cpf 'Tcpi kpi 'qt 'Nki j v'K ci kpi . 'F ggevkvq' .cpf 'Tcpi kpi '*NkF CT+'r qkv'emw'f "
 f cv'htqo 'yj g'Cngi j gp{ 'Eqwpv{ 'f guetkdkpi 'yj g'ncpf 'uwthceg0'Vj g'ur cvkn'tguqnwkvq'qh'yj g'
 r qkv'emw'f "ku'qh'ctqwpf "y q'r qkvu'r gt'us wctg'o gvt0Nkf ct 'F ki kn'Uwthceg' 'O qf gn'F UO +'
 f cv' y cu' qdvckpgf " htqo [" j wr u<hnc0et0wi u0 qx hkf ct af ki kcnrpxcvkqp0"](#) Vj g' f cv' y cu'
 f qy pmcf gf 'kp'NCU'hkg'hqto cv.'y j lej 'ku'c'r wdrlc'hqto cv'hqt'yj g'kvgtcj cpi g'qh'NkF CT'f cv'
 dgwy ggp'xgpf qtu'cpf 'ewuqo gtu0C'r mv'qh'yj g'f cv'ku'uj qy p'kp'Hki wtg'4060



Hki wtg'4060Nkf ct 'F ki kn'Uwthceg' 'O qf gn'F UO +'f cv'hqt'yj g'uwf { 'ctgc0

Cpqvj gt 'NkF CT/dcugf 'f cvc'r tqf wev'F ki kcn'Grxcvqpp'O qf gn 'F GO +y cu'cnq'qdvckpgf 'htqo "
[j wr <ly y v 0 co cr 0 ept 0 ncvgt 0 c0wlr co cr lf cvcauqwtg0ur z0](#) Vj ku'f cvc'uj qy p'lp'Hki wtg'407+"
 j cu'e'tguqnwkqp"qh'504'ln'3/o gvg't'gs wxcrgpv'cpf 'k'ku'wpkqto n{/ur cegf 'cpf 'i tkf f gf ô y kj "
 c'tcuvg't' gqVKHH'htqto cv0Gcej 'r kzgnlp'vj g'F GO 'j cu'cp'lpvgr qrcvgf "grxcvqpp'xcnwg0



Hki wtg'4070Nk ct 'F ki kcn'Grxcvqpp'O qf gn'F GO +f cvc'ht'vj g'uwwf { 'ctgc0

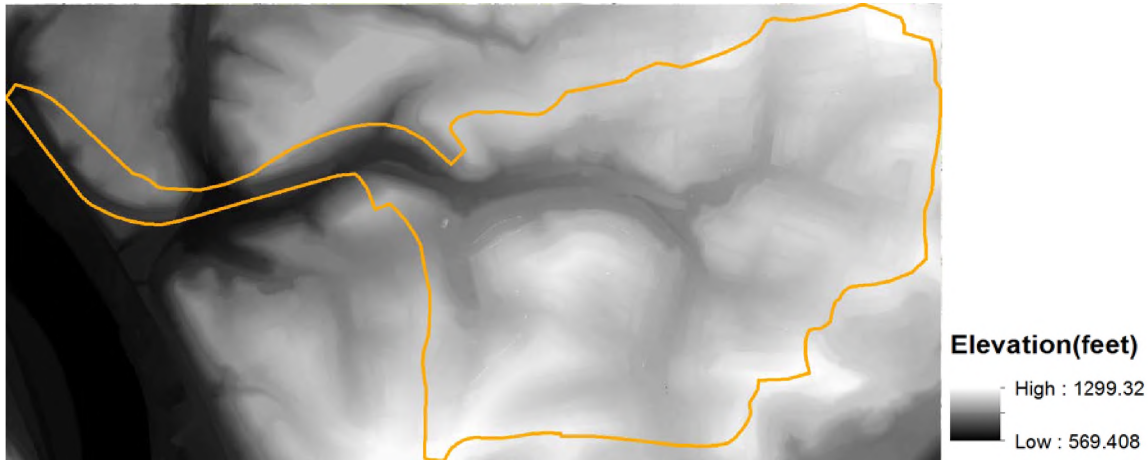
4005" J { f tq/eqttgevgf 'f ki kcn'grxcvqpp

Dcugf "qp'vj g'Cmgi j gp{ 'eqwpv{ 'NkF CT'lpkqto cvkqp.'c'r quv'r tqeguugf 'F GO 'y cu'f gxgnqr gf 0'
 Vj g'o qf kkecvkpu"vq'vj g'qtki kpcn'F GO 'ctg'cko gf "cv'ko r tqxkpi "vj g'hk grk{ "qh'vj g'uwhceg"
 twpqh0O qtg'ur gekkcm{.'vj gug'o qf kkecvkpu'ctg'cko gf "cv<

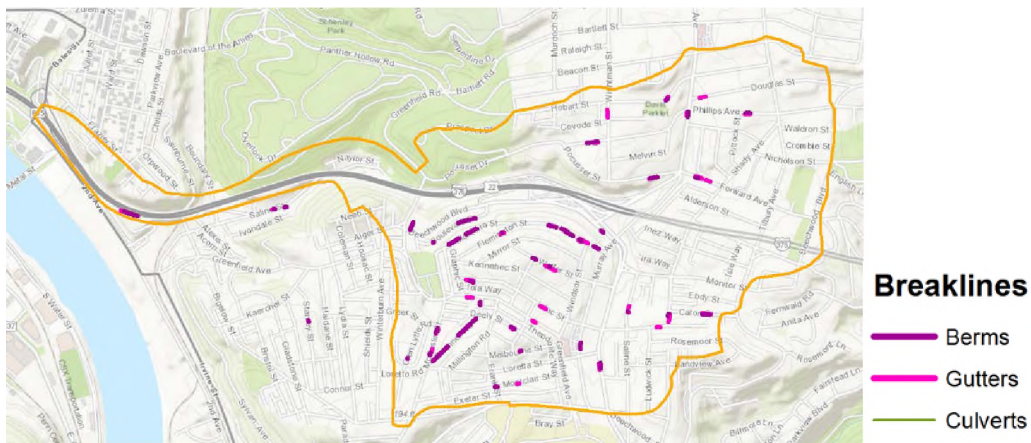
- "" Grko kpcvki "pqp/uwhceg'qdlgevu.'uwej "cu'dwkrf kpi u.'ectu.'cpf 'tgggu
- "" Tgo qxkpi "wptgcrkuk'ukpmô nqecvqpu'y kj 'hgy gt'grxcvqpp'vj cv'ecr wtg'hny
- "" Gphqtekpi 'hny 'r cvj u'ko r qugf 'd{ 'uo cm'utwewtgu'hkng'ewtdu+y j qug'r tgugpeg'y cu"
- "" Gpuwtkpi 'cf gs wcvg'tgr tgugpvcvqpp'qh'utwewtgu'hkng'dgto u

Kp"qtf gt "vq'cej kxxg'vj gug.'c'o cpwcn'r tqegf wtg'lp'y j kej "cf f kkpkn'lpkqto cvkqp'uwej "cu'vj cv"
 htqo "vj g'eqwpv{ 'æ'cgtkcnko ci gt { +y cu'vugf "vq'cuuguu'vj g'dgi cxlqt "qh'vj g'uko wrcvgf 'y cvgt'hny "
 r cvj u'cpf 'vj gp.'kgtcvxgn{.'o qf kh{ kpi 'vj g'grxcvqpp'lpkqto cvkqp'lp'VKP "tkcpi wrcvgf 'ktgi wrct"
 pgwy qtm'hqto cv'y kj "vj g'r wtr qug'qh'r tqf welpi "vj g'eqttgev'hny "r cvj 0'Vj ku'r tqeguuy cu"
 eqpf wevgf "wukpi "GUT ku"CteI KU'F gumqr "320Z'y kj "vj g'Ur cvkcn'Cpcn{ 'leu'gzvgpukqp'cpf "
 SEqj gtgpvau'NR582'Dcule'uqhny ctg'r cenai gu0Hki wtg'408'uj qy u'vj g'o quv'ewtgpv'xgtukqp"qh"
 vj g'o qf kkecvkpu'vq'vj g'VKP "grxcvqpp'f cvc'40

³I KU'rc{ gt'pco g<RkwJ { f tqax43'lp'vj g'cwcej o gpwu0
⁴I KU'rc{ gt'pco g<WdcpJ { f tqDtgcmkpgu'lp'vj g'cwcej o gpwu0



Hki wtg'4080F ki ken'Grxcvkp'O qf gn'F GO +lp'tcugt'htqo cv'htqo 'NKF CT'cpf 'cgtken'
 lo ci gt{ 'f cvc."o qf kkgf "q'lo r tqxg'vj g'uwthceg'twpqhh'dgj cxkqt "qh'vj g'uko wrxvf "
 vgtckp0

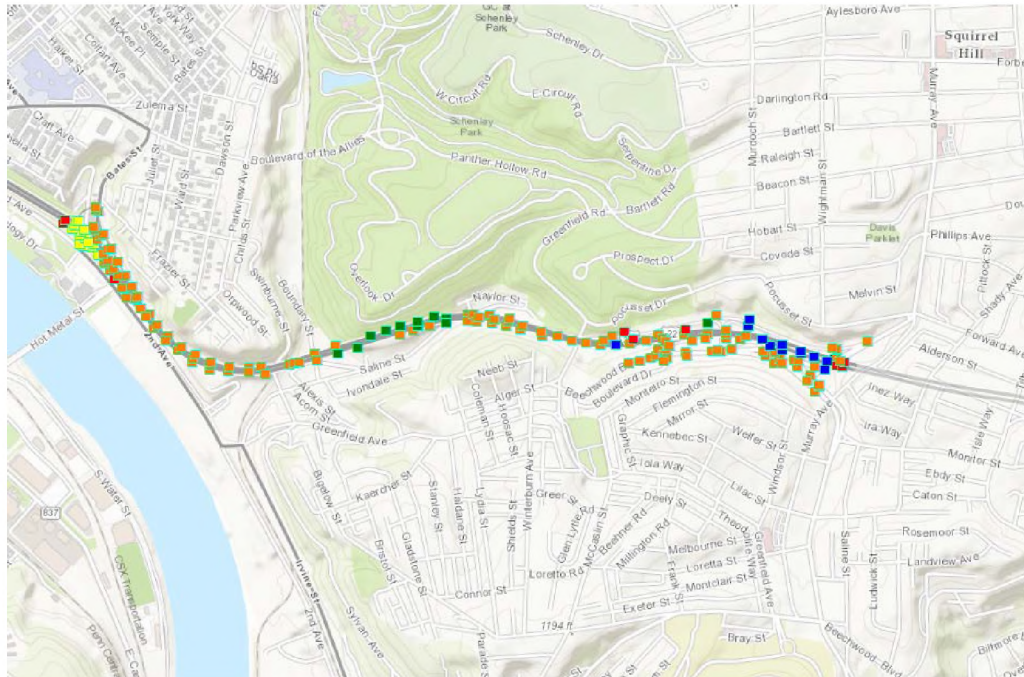


Hki wtg'4000Dtgcmlpgu'f ghkpgf "q'o qf kki "vj g'VRP "grxcvkp"q'r tqf weg'vj g'eqttgevgf "
 F GO 'lp'Hki wtg'4080

Vj g'rtgegf lpi 'F GO "o qf kkecvkp'r tqegu'ku'ko g/equwo lpi ."dw'r tqxkf gu'c'o qtg'ceewtcvg"
 tgrtgugpvckp"qh'vj g'uwthceg0Vj ku'uwf { "j cu'hqwpf "vj cv'vj g'o qf kkgf "xgtukp"qh'F GO "wulpi "
 4/r qkp'NKF CT"ku'r tghgtcdrg"cu'k'r tqxkf gu'dgwgt "tguqnwkp"cpf "hcekrkcvgu"vj g"mqy "r cyj "
 f gvgto kpcvkp0

4006" RgppF QV'f tclpci g'rc{ qw

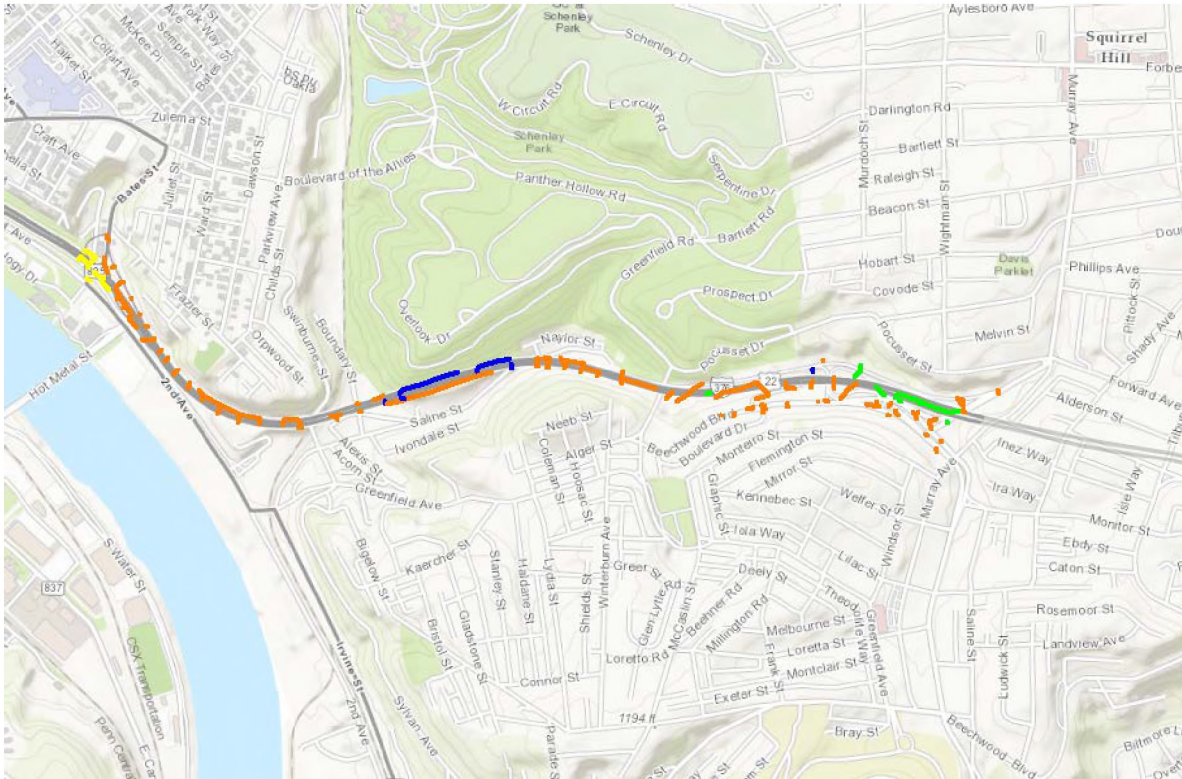
30' K598"uqto "y cvgt "lprgu"kf gpv'hgf "ctg"r tguqpvf "kp"Hki wtg"40 0'O gyj qf u"wugf "kp"
kf gpv'h{ lpi "vj qug"lprgv"necv'kpu"lpenf g'hgf "qdugt'xcv'kq"cpf "RgppF QV"ftcy lpi u"
*uwo o ctk gf "kp"l K'f c'vdcug'hgf "÷o gcaHgcwtgaEqphkf gpeg0'Ego d'kpgf "y kj "
npqy ngf i g"qp"ewt'gpv'gu'ko cvgf "r k g"eqppg'v'kpu"ugg"Hki wtg"40 "cpf "Hki wtg"402÷"
Kprgu'ctg"em'uk'hgf "dcugf "qp"vj g'hqy "f gu'kpcv'kq"qh'y cvgt "gpv'gt'kpi "vj g"lprgu'0'Vj ku"
o cr "rc{ gt "ku"wugf "vq'cpcn{ g'y j gt g'RgppF QV'y cvgt "y kn'hqy "chgt "gpv'gt'kpi "cp'kprgv."
kp"qtf gt "vq'gu'ko cvg'ctgc"ch'gevgf "d{ "y cvgt "qtki kpcv'kpi "qp'RgppF QV'r tqr gt v{ 0



- outlets in combined overflow
- outlets in combined sewer
- outlets in storm flows to combined
- outlets on ground flows to combined
- unknown flow destination

Hki wtg"40 0RgppF QV'uqto "y cvgt "lprgu"qp"K5980Qd'v'kpgf "d{ "qxgt'rc{ lpi "rc{ gt "
÷NDuaK gpv'hgf aUqto aUt'wewtgaNDuax2; w'ly kj "CteI K'vqr qi tcr j le'dcugo cr 0
F kur rc{ gf "d{ "f c'vdcug'hgf "÷o gcaHgcwtgaEqphkf gpeg0

40' K598'guko cvgf 'uqto 'y cvgt 'r kr g'hqecvkpu'kf gpv'khgf 'ctg'uj qy p'lp'Hki wtg'4Q 0'
 kphqto cvkqp'htqo 'Rkwudwti j 'Y cvgt 'cpf 'Ugy gt 'Cwj qtkv' *RY UC+ 'RgppF QV"
 eqputwvkqp'wutxg{ u.'hgrf "qdugtxcvkpu'wvf gt 'dtkf i gu.'cpf "gf wecvgf 'i wguugu'y gt g"
 wugf "q'f'gvto kpg'ewtgpv'r kr g'eqppgevkpu'Ortqegui'wugf "q'guvdrkuj "gcej 'r kr g"
 ugi o gpv'ku'wuo o ctk gf 'lp'I KU'f'cvcducg'hgrf ":-o gvaHgcwtgaEqphk f'gpeg0Vj g"
 f gukpcvkqp'qh'kprgv'lpvtegr vgf 'uqto 'y cvgt 'ku'wuo o ctk gf 'lp'I KU'f'cvcducg'hgrf "
 :-o gvaHqy aF gukpcvkqp0'dcugf "qp'yj g'ewtgpv'guko cvgf 'r kr g'ugi o gpv'eqppgevkpu'
 cpf 'yj g'cxckrdg'o cr u'cpf 'f'icy kpi u0Vj ku'o cr 'rc { gt 'ku'wugf "q'cpcn| g'y j gtg"
 RgppF QV'y cvgt'y kmlhgy . 'lp'qtg gt 'q'kf gpv'kh' 'ctgc'chgevgf 'd { 'RgppF QV'twpqht0

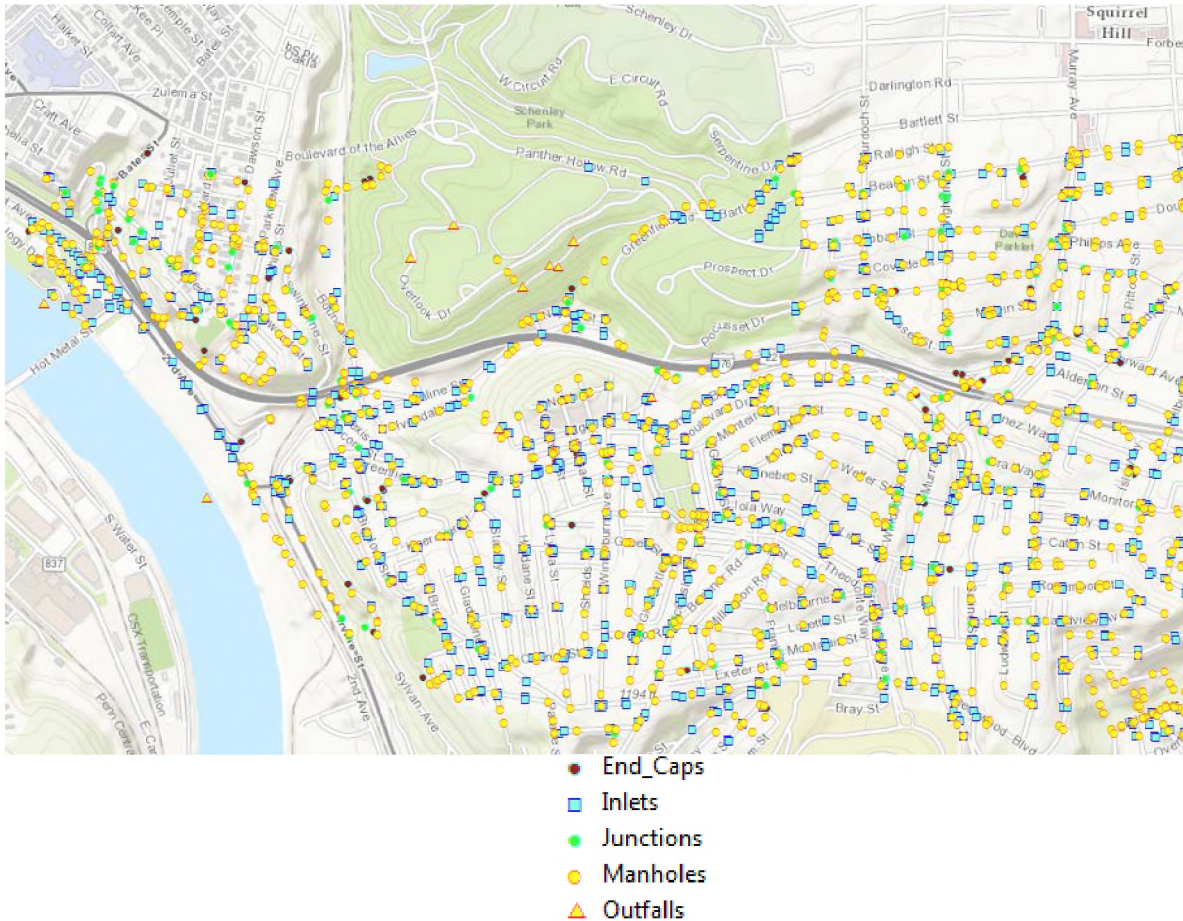


- outlets in combined overflow
- outlets in combined sewer
- outlets in storm flows to combined
- outlets on ground flows to combined

Hki wtg'4Q 0'Guiko cvgf 'uqto 'y cvgt 'r kr g'hqecvkpu'qp'K5980Qdvcpgf 'd { "qxgtrc { kpi "
 CteI KU'rc { gt ":-NDuaGuiko cvgf aUqto aRkr gaHgcwtguaNDuax2; w0'y kj "CteI KU"
 vqr qi tcr j k0'dcugo cr 0F kur rc { gf 'd { 'f'cvcducg'hgrf ":-o gvaHqy aF gukpcvkqp0

4007" Uqto 'y cvgt'cpf 'ugy gt'r kr g'u{ ugo

30' RY UC 'f cwcduc'qh'r qkpvhgcwtgu'qh'yj g'f tclpci g'u{ ugo "Hki wtg"402+50Vj g'uqwtg"
 qh'yj ku'hgcwtg'ku'RY UC0Vj ku'hgcwtg'ku'qdckpgf 'd{ 'o gti kpi 'hkg'f khtgtpv'uqwtg"
 r qkp'f cwcducu"Gpf aEcr u."Kngvu."Lxpevkpu."O cpj qngu."Qwhtcmu+kpv'c"ukpi ng"
 f cwcduc'hkg'cpf "cf f gf 'yj g'hkgf "-qdlgeva{r go'vq'emtkh{ 'yj g'utwewt g'tgr tguqpygf 'd{ "
 gcej 'r qkp'0P qvg<Lxpevkpu'ctg'w'pf gti tqwpf 'r kr g'eqppgevkpu'y kj qw'c'o cpj qng"
 utwewt g0



Hki wtg"4020Rqkpvhgcwtgu'qh'RY UC'f tclpci g'u{ ugo 0Qdckpgf 'd{ "qxgtr{ kpi "
 CteI K'nc{ gt":RY UCuUqwtgaF tclpci gaUtwewtgaNDuax23ar qkp'lp'yj g"
 cwcej o gpw'ly kj 'CteI K'ncr qi tcr j k'dcugo cr 0

5'I K'nc{ gt'pco g<RY UCuUqwtgaF tclpci gaUtwewtgaNDuax23ar qkp'lp'yj g'cwcej o gpw'0

40' RY UC 'f cwcduc'qh'f tclpci g'r kr gu*Hki wtg'403-00Vj g'f cwcduc'hgrf ":-UGY GTaWUG0'
 ku'go r m{ gf "v'xkuwcm{ "emcuukh{ 'd{ "eqm{ 'j g'hqwt'r tko ct{ 'v{ r gu'qh'ugy gt'r kr gu'lp'y g'
 f cwcduc<dtqy p"? "eqo dlpgf 'ugy gt'r kr gu. 'tgf"? "eqo dlpgf 'qxgthqy 'r kr gu. 'i tggp"? "
 ucpkct{ 'ugy gt'r kr gu. 'dnwg"? 'f gf kecvgf 'uqto 'y cvgt'r kr gu0Vj ku'rc{ gt 'ku'wugf "v"
 gucdrikj 'r kr g'eqppgevkpu'lp'y g'uwwf { 'ctgc0

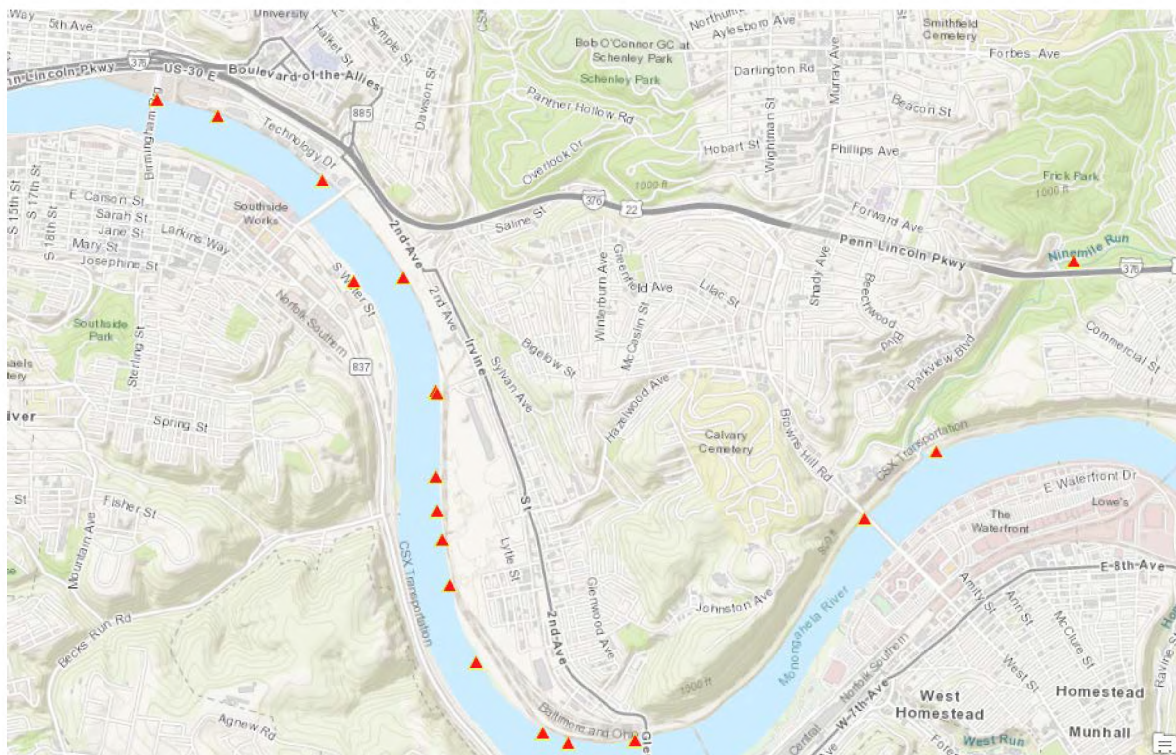


Hki wtg'4030RY UC 'f tclpci g'r kr gu0Qdvcpgf 'd{ "qxgtr{ lpi 'CteI KU'rc{ gt"
 :-RY UC aUqwtgaRkr gaHgcwtguaNDuax230'y kj 'CteI KU'vqr qi tcr j k'dcugo cr 0
 F kur rc{ gf 'd{ 'f cwcduc'hgrf "? ":-UGY GTaWUG0

6'I KU'rc{ gt'pco g<RY UC aUqwtgaRkr gaHgcwtguaNDuax23'lp'y g'cwcej o gpw0



4.



Hki wtg'4040Qwhcm'utwewtgu0Qdckpgf'd{"qxtgr{ lpi "CteI KU'rc{gt"
 :-QwhcmUtwewtgaNgcevkpuanDuaX35arqlpw'y kj "CteI KU'qrqi tcrj le'dcugo cr0

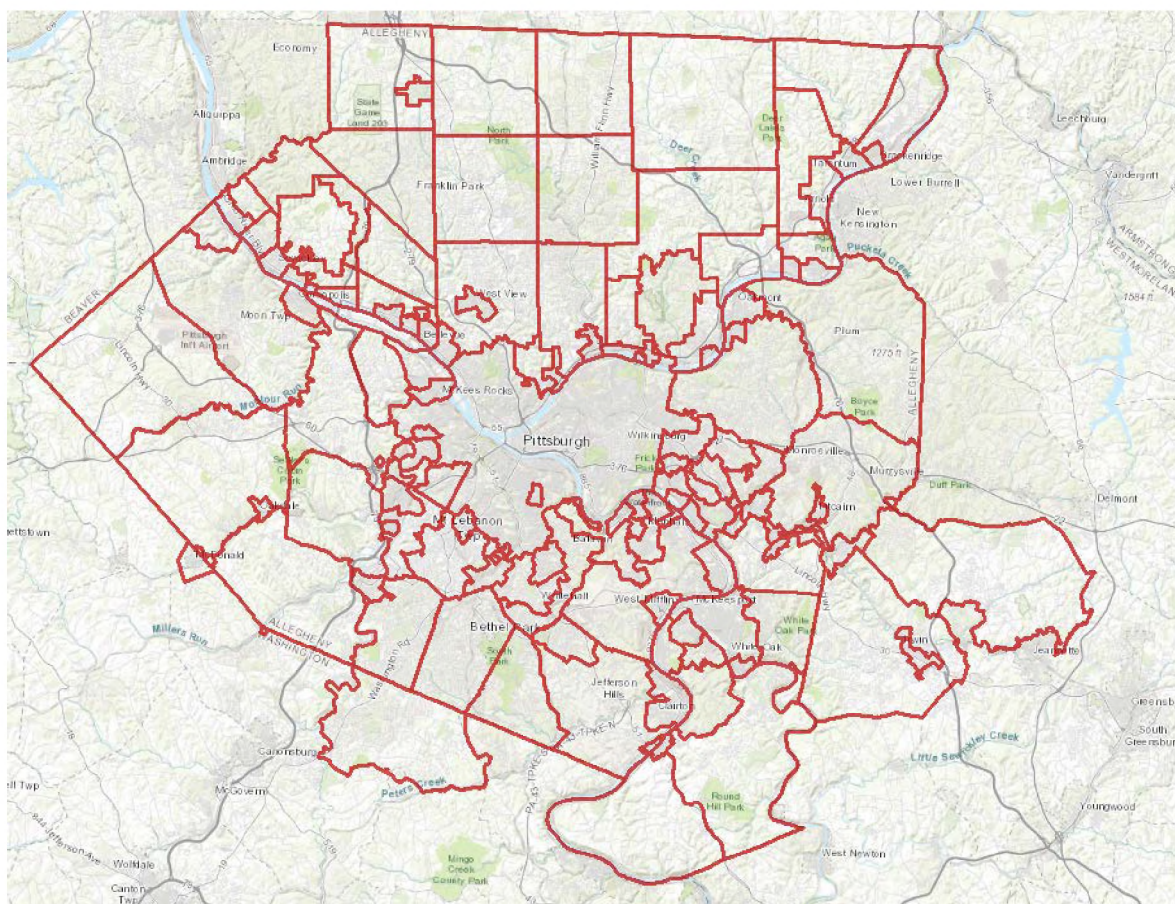
7th I Ku'ru {gt"pco g<QwhrcmUtwewtgaNqecvkpuaNduax35arqlkvlp"y g"cwcej o gpw0

Rkw'Y Q'0/236

Rci g'38

Ugr vgo dgt"423:

30' O wplekr crn'dqwpf ctkgu⁴ "Hk wt g"405+80Qdvc kpgf "ht qo "j g'Cngi j gp{ "Eqwpv\ "qhlego'
Vj g'uj ctgf "dqwpf ctkgu"dgw ggp "j g'o wplekr crn'ktgu"cpf "Rkwudwti j "pgki j dqtj qqf "
dqwpf ctkgu"ctg"u\ pej tqpk gf 0



Hli wtg'48500 wplekr cn'dqwpf ctigu0Qdvclpgf'd {"qxxgtr{ kpi "Ctel KU'rc'gt"
:-0 wplekr cmaDqwpf tkguaNDuax36atgi kpo'ly kj "Ctel KU'qr qi tcr j le'dcugo cr 0

8¹I K'ur { gt'pco g<O wplek cmaDqwpf tkguaNDuax36atgi kq'p'v'j g'cwcej o gpw0

Rkw'Y Q'0/236

Rci g'39

Ugr vgo dgt"423:

Uqto y cvgt 'Cpcn{uku'cpf 'Y cvgt 'S wrk{ 'Cuuguuo gpv'qh'Wdcp 'Ctgc
 Hkpcn'tgr qtv
 Zw'Nkcp 'gv'cr0



40' P gki j dqtj qqf "dqwpf ctkgu" *Hki wtg"406+90' Qdvc{kpgf "htqo "Rkwudwti j æ'f cwc" qhheg0'
 Vj ku'rc {gt "ku'wugf "hqt "kf gpvkh{ kpi "ctgcu"chgevgf "d{ "twpqh'i gpgtcvgf "htqo "RgppF QV"
 r tqr gt vku" cpf "ctgcu" tgr qpukdrg" hqt" i gpgtcvki "twpqh' hqy kpi "qpqv" RgppF QV"
 r tqr gt vku0



Hki wtg"4060P gki j dqtj qqf "dqwpf ctkgu0Qdvc{kpgf "d{ "qxgtrc{kpi "CteI KU'rc {gt"
 -Rkwudwti j aP gki j dqtj qqf uaNDuax36atgi kqpø'y kj "CteI KU'qr qi tcr j le"dcugo cr 0

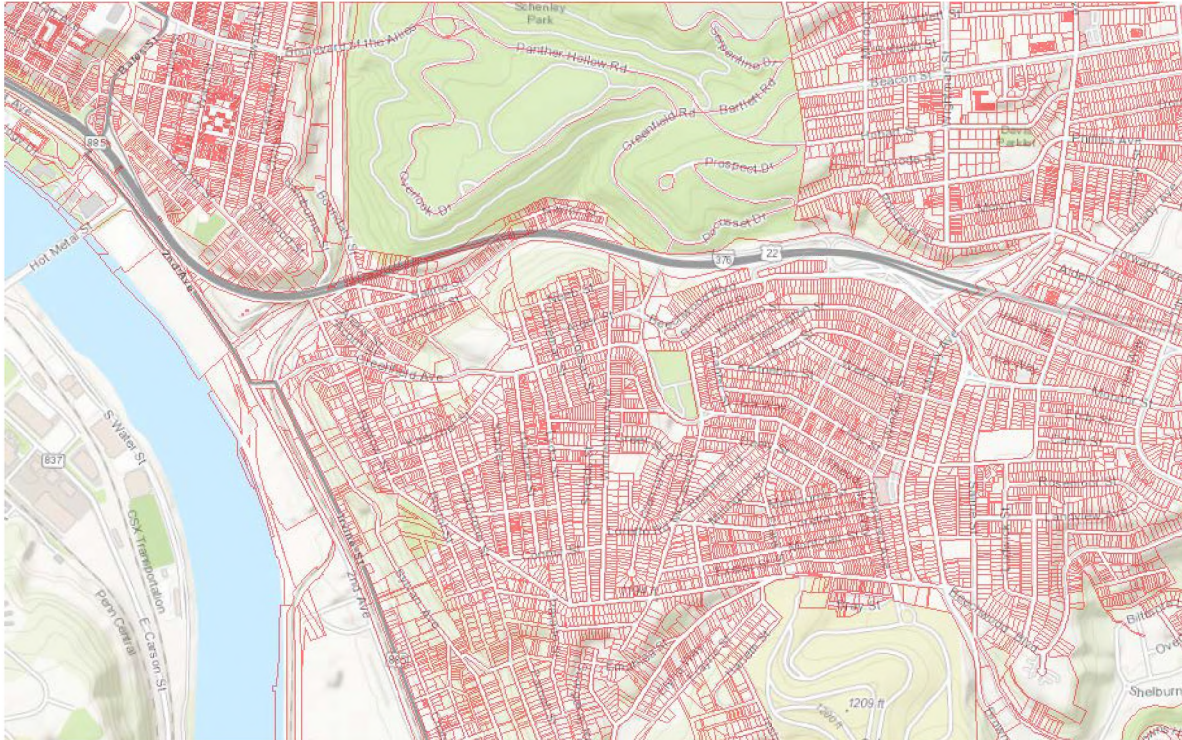
9'I KU'rc {gt'pco g<Rkwudwti j aP gki j dqtj qqf uaNDuax36atgi kqp'lp'yj g'cwcej o gpwu0

Rkw'Y Q'0236

Rci g'3:

Ugr vgo dgt"423:

50' Cngi j gp{ "Eqwpv{ "r ctegnu" *Hk wtg"4037+0'F cvc"qdvclpgf "htqo "Cngi j gp{ "Eqwpv{ ."
 wugf 'hqt'kf gpvhi{ kpi "ctgc"chgevgf "d{ 'twpqhi' gpgtcvgf "htqo 'RgppF QV'r tqr gtvgu'cpf "
 ctgc'tgur qpukdg'hqt'i gpgtcvki 'twpqhi'hqy kpi "qpq'RgppF QV'r tqr gtvgu0



Hk wtg"40370'Cngi j gp{ 'Eqwpv{ "r ctegnu0Qdvclpgf "d{ "qxgtrc{ kpi 'CteI KU'rc{ gt"
 :Cngi j gp{ aEqwpv{ aRctegnaNDuax55atgi kqpø'y kj 'CteI KU'qr qi tcr j le"dcugo cr 0

: 'I KU'rc{ gt'pco g<'Cngi j gp{ aEqwpv{ aRctegnaNDuax55atgi kqp'kp'y g'cwcej o gpv0

Rkw'Y Q'0236

Rci g'3;

Ugr vgo dgt'423:

4080" Qvj gt "f'cvc'eqmgevgtf

30' Uwthceg"eqxgt "Hki wtg"4080+0Vj ku"eqo r qukv"uwthceg"eqxgt "f'cvc'cug"y cu"i gpgtcvgtf "
 d{ " engcplpi " wr " cpf " o gti lpi " hkg" ugr ctcvg" ur cvkn' f'cvc'cugu< dwkf lpi u" *tqo "
 Cngi j gp{ "Eqwpv{ " dwkf lpi u+ " r cxgf " uwthcegu" *tqo " Cngi j gp{ "Eqwpv{ " r ctnlpi "
 gf i gu+ "tqcf "uwthceg" *tqo "Cngi j gp{ "Eqwpv{ "gf i g"qh'r cxgo gpv+ "xgi gvcvkqp" *tqo "
 rkf ct+ "y cvgt " *tqo "Cngi j gp{ "Eqwpv{ "j { f tq"rc {gtu+ "cpf "i tqwpf "uwthceg" *lp "vj g"
 cdugpeg"qh'vj g'r tgxkqu'hkg'uqwtegu+0Vj ku'f'cvc'ecp'dg'wugf "hqt'ugwkpi "wr "c'f'cklpci g"
 o qf gr'wulpi "UY 000

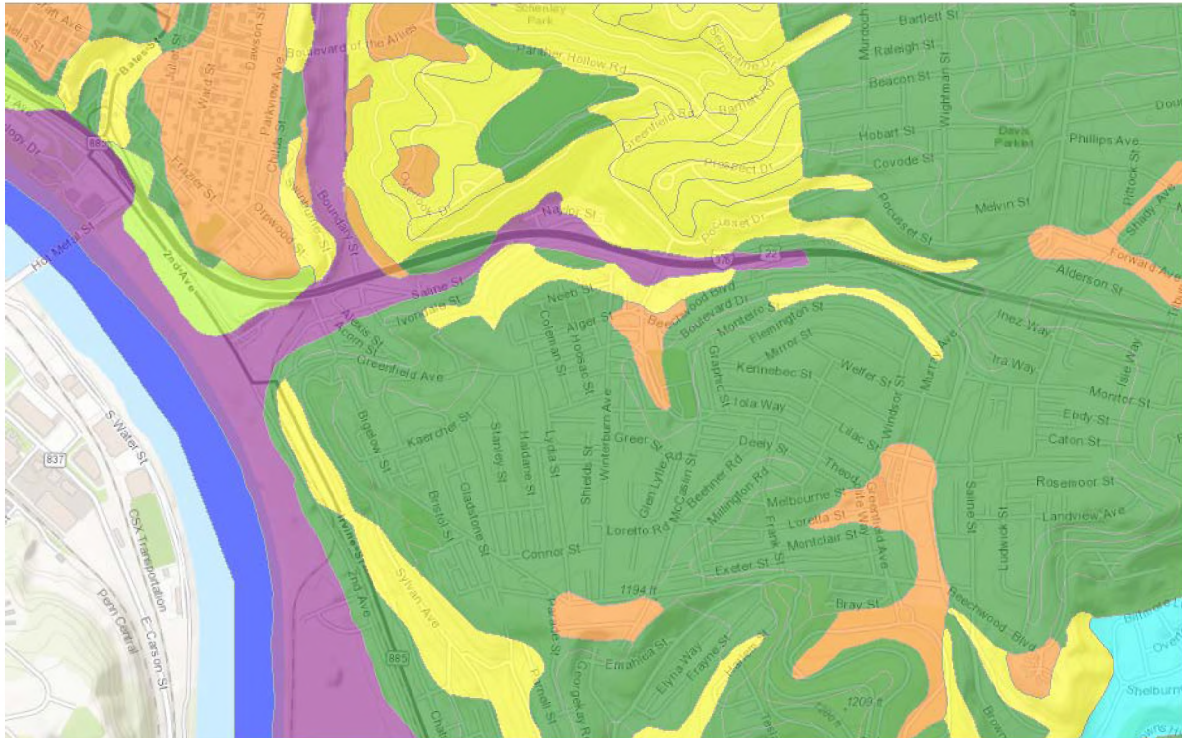


- building
- ground surface
- paving surface
- road surface
- vegetation
- water

Hki wtg"4080Uwthceg"eqxgt0Qdvc'kpgf "d{ "q'xgtr{ lpi "CteI KU'rc{gt"
 -UwthcegaEqxgtaRgppF QVaNDuax69atgi kqp'vj g'c'wcej o gpw0

: 'I KU'rc{gt'pco g<UwthcegaEqxgtaRgppF QVaNDuax69atgi kqp'lp'vj g'c'wcej o gpw0

40' Uqkl'v{r g'Hi wtg'4089+320Qdvcpgf 'ltqo 'vj g'PTEU'fcvdcug"
[*j wrv<luf o fcvceegu0pteu0wuf c0 qx-0Vj g'fcvdcug'hgrf "æqo rqukvj" {ftq'ftclp"](#)
 uj qt'wø'y cu'cf f gf 'v'owo o ctk g'vj gqg'vkeci'WUF C'uqklf tclpci g'tcvg'encuukhec'vkvpu0'
 Vj ku'f cv'ecp'dg'wugf 'hqt'ugwkp{ 'vr 'c'f tclpci g'o qf gn'wulpi 'UY O.O.O



- B well 36+
- B well 36+ [urban]
- C excessively (sorta)
- C well 36+
- C well 18+ (mod)
- C well 18+ (mod) [urban]
- C/D well 18+ (mod)
- Dumps
- Urban
- Water

Hi wtg'40890Uqkl'v{r g0Qdvcpgf 'd{ 'qxgtr{ kpi 'CteI KU'rc{ gt"
 -PTEUauqkuaNDuax29atgi kqpø'y kj 'CteI KU'vqr qi tcr j kē'dcugo cr 0

32'I KU'rc{ gt'pco g-PTEUauqkuaNDuax29atgi kqp'lp'vj g'cwcej o gpvu0

PC Sta. 0+00 Ramp C
PT Sta. 22+41.55 Ramp A

Legal Right of Way Line for Limited Access

RAMP A

Concrete Barrier

WIDER CONC MEDIAN BARRIER TO MEET DOUBLE FREE FLOWING

RAMP D

RAMP E

RAMP F

RAMP G

RAMP G EXTENDED

PC Sta. 0+00.00 Ramp E Opp
Sta. 106.80 Ramp E Ext

Sta. 24+78.37 S
Sta. 24+78.37 S
Sta. 24+78.37 S

Legal Right of Way Line for Limited Access

Sta. 71+58.14 Ramp B Opp
Sta. 71+58.14 Ramp B Ext

BECKWOOD BLVD

Legal Right of Way Line

Substation

Sta. 0+00 Ramp 6:
Sta. 26+84.60 Ramp A

RAMP A
STA. 24+78.37 S
RAMP D
STA. 3+4795
BRIDGE NO. 17
S-12464

Sta. 2+11.00 Ramp E
PT Sta. 15+43.61 Ramp E

Sta. 0+00.00 Ramp 15
Sta. 5+15.61 Ramp G

BECKWOOD BLVD

Legal Right of Way Line

PT

RAMP 3A
STA. 3A
BRIDGE NO. 17
S-12464

Ugr vgo dgt"423:

404'Nkv'qh'hkgu

CteO cr 'hkg<RgppF QV'Rkw'Twpqh'Uwf { 'Dcug'O cr 300 zf

Hqrf gt<ur cvkrF Dao f d."ur cvkrF Datcugt."cpf "ur cvkrF Dauj r

- " NDuaK gpv'hkgf aUqto aUtwewtgaNDuax2; w
- " NDuaGuko cvgf aUqto aRkr gaHgcwtguaNDuax2; w
- " RY UC aUqwttegaF tclpci gaUtwewtgaNDuax23ar qlpv
- " RY UC aUqwttegaRkr gaHgcwtguaNDuax23
- " QwhcmaUtwewtgaNqecvqpuaNDuax35ar qlpv
- " O wplekr cmDqwpctlguaNDuax36atgi kqp
- " Rkwudwti j aP gli j dqtj qqf uaNDuax36atgi kqp
- " Cngi j gp{ aEqwpv{ aRcteguaNDuax55atgi kqp
- " UwthcegaEqxgtaRgppF QVaNDuax69atgi kqp
- " P TEUauqkuaNDuax29atgi kqp
- " RgppF QVa598/3; : 20kh

Hqrf gt<RkwDtgcmkpgu0 f d

- " WdcpJ { ftqDtgcmkpg

Hqrf gt<Ggxcvqpatcugt

- " RkwJ { ftqax3*Dghqtg'o qf hkgf +
- " RkwJ { ftqax43*Chgt'o qf hkgf +

50' K gpvkhlec vkp 'qh'Hmy 'Rc vj u'cpf 'F tclpci g'E qpvtkdwkq 'Ctgc

Vj ku'ugevkp'eqpvkwwgu'vj g'f grkxgtcdrg'hqt'Vcum40 K gpvkhlec vkp'qh'Hmy 'r cvj 'cpf 'f tclpci g' eqpvtkdwkq'ctgc'qh'vj g'Rkw'Y Q"%236'r tqlgev'0Uqto y cvgt 'Cpcn{ uku'cpf 'Y cvgt 'S wcrk{ 'Cuuguo gpv'qh'Wtdcp' Ctgc0'Qpg'uwf { 'ctgc'kp'vj g'Ek{ 'qh'Rkwudwi j . 'Rgppu{ kcpkc '*RC+' y cu'ugrgev' hqt'vj g'r tqlgev'hqt'Vcum40

Vj g'r wtr qug'qh'vj ku'ugevkp'ku'vq'f guetkdg'vj g'o gvj qf qm{ { 'vj cv'y cu'wugf 'kp'etgcvkpi 'c'hmy " o qf gn'qh'vj g'ugrgev' " y cvgtuj gf " kp" qtf gt" vq" kf gpvkh{ " eqpvtkdwkpi " ctgc" tgrcvf " vq" yj g' RgppF QV" j ki j y c{ u'kp" yj g' y cvgtuj gf 0' Vj ku" o gvj qf qm{ { " eqwrf " dg" wugf " kp" kf gpvkh{ kpi " eqpvtkdwkpi 'hmy "ctgc'hqt'y cvgtuj gf u'vj cv'kpvgtcev'y kj " j ki j y c{ u0

Vj g'uwf { "ctgc" eqxgtu'r ctw'qh' *Kpvt ucw'K598'y gw'qh'vj g'Us wkt gtl'J knl'Vwppgr0* Vj ku' f qewo gpv'f guetkdg'vj g'r tqegf wtu'cpf "tguwma'qh'f gvgto kpkpi "vj g'ctgc'eqpvtkdwkpi "hmy " kpq'vj g'RgppF QV" j ki j y c{ "tki j vqh'y c{ "cpf "vj g'ctgc'chgev' d{ "hmy "f qy pwtgco "htqo " yj g'RgppF QV" j ki j y c{ "tki j vqh'y c{ 0'CteI KU'y cu'vj g'r tko ct { "vqnl'gz vgpukxgn{ "wugf "hqt'vj ku' r wtr qug'0 Vy q" NkF CT" f cvcugu" y kj "f khgtgpv' tguqnwkp" y gtg" wugf " vq" f go qpwtcvg" yj g' ko r cew'qp'vj g'guko cvgf "eqpvtkdwkpi 'hmy "ctgc'htqo "NkF CT" f cvcugv' tguqnwkp0

I gpgtcm{ . "j ki j /tguqnwkp"NkF CT" f cvcugv'ku'f guetkdg'cpf "hgcwtgu'rkng'ewtdu'cpf "dtkf i gu' pggf "vq"dg'eqpukf gtgf "hqt"o qf grkpi "hmy "r cvj "ceewtcvgn{ . "y j lej "ku"ko r qtcvp'hqt"o qf grkpi " j qy "ucnu'ctg'vcpur qtvgf "htqo "vj gkt "uqwtgu'vq'wtgco u0

50B' Eqttgev'cpf 'o qf kh{ 'f ki kcn'uwthceg' o qf gn

Vj g'r tqegu'dgi kpu'd{ "qdvkpkpi 'c'f ki kcn'uwthceg' o qf gn'htqo "cp'cxckcdrg'uqwtg0Hqt"vj g' uwf { "ctgc'ugrgev' . "vj g'hqmy kpi "f qo ckp'tgo qvg'ugpukpi "f cvcugu'htqo "Cmgi j gp{ "Eqwpv{ " y gtg'ces wktgf 0

4236'NkF CT"*O ggkpi "WUI U'S N4'Ucpcf ctf u+

4236'Qtvj qko ci gt {

Dcugf "qp"vj gug"vy q'f cvcugu. "cp"kgtcvkg"cr r tqcej "y cu"go r m{ gf "vq" f gxgnr "c"o qf khgf " F ki kcn'Uwthceg'O qf gn'F UO + 'vj cv'ku'j { f tqm{ kcm{ "eqttgev0Vj g'o qf khgf "uwthceg'o qf gn'ku' ecr cdrg'qh'ceewtcvgn{ 'f gr levkpi "uwthceg'hmy "r cvj u'kp'cp'wtdcp"gpvktqpo gp0Vj g'cr r tqcej "qh' yj ku'uwf { "o cf g'wug'qh'vj g'hqmy kpi "uqhy ctg'y kj "vj g'uwthceg'o qf gn<

CteI KU'F gumqr "320' y kj "vj g'Ur cvken'Cpcn{ w'gz vgpukp"*GUT KU'qhy ctg+

NR582'Dcule"*S Eqj gtgpv'Uqhy ctg+

Vj g'cum'qh'r gthqto kpi "vj ku'kgtcvkg'r tqegu'j cxg"dggp'r ctvkpvgf "kpq'ugxgp"*9+'ugr ctcvg' cum' tqwr u'cu'f guetkdgf "dgmj 0'Vj ku'f guetkdg'vj g'o gvj qf qm{ { "vj cv'eqwrf "dg" wugf "hqt"cp{ " y cvgtuj gf "qh'kpvtgu0Vj g'vcti gv'cvf kgpegu'hqt'vj g'r tqegu'f qewo gpv'vkp'ctg'wugtulpkn{ uu' y j q'o c{ 'y kuj "vq" f wrdecv'vj g'r tqegu0Vcdrg'50'f guetkdg'hgcwtgu'wugf "cpf "i gpgtcvf "htqo " yj g'r tqegu0

Hkq lHgcwtg'Eruu	F guetkr vkqp
Dtgcmlpgu	Xgevqt'hqto cv'hkpgu
Kkklcn'Eruukhgf 'NkF CT'r qkpv'hkg	NCU'hqto cv
Wf fcvgf 'Eruukhgf 'NkF CT'r qkpv'hkg	NCU'hqto cv
Kkklcn'F ki kcn' Grgxcvkqp" O qf grn'F GO +	Rkwj { f tqax3a grgx0hv
	Rkwj { f tqax3a hkm5hv
	Rkwj { f tqax3a HqF kt
	Rkwj { f tqax3a HqCee
	Rkwj { f tqax3a ukpm
	Rkwj { f tqax3a grgx0hv
Wf fcvgf " F ki kcn' Grgxcvkqp" O qf gn	Rkwj { f tqax47a grgx0hv
	Rkwj { f tqax47a hkm5hv
	Rkwj { f tqax47a HqF kt
	Rkwj { f tqax47a HqCee
	Rkwj { f tqax47a ukpm
	Rkwj { f tqax47a j kmuj cf g
WdcpaF telpci gaO qf gmDcule	Ctel KU'O qf wrg

Vj ku'ku'hmj gt'hqmj gf'd{'cf f kpi 'vj g'ko ci gt{. 'cpf lqt'cf f kpi '*qt'etgcwpi +c'i gqf cwcug'ht" dtgcmkpg'hgcwtgu'*g0 0'r qn'kpgu'0'Chgt'eqo r ngwpi 'vj gug'qr gtcwqpu.'c'dcule'I K'u'o qf gn'ku' cxckmdrg'ht'o qf kkecvap'vq'etgcw'c'hwpevqpcn'vqn'ht'epcn'uku'r wtr qugu0

5004" Ugwłpi 'wr 'vj g'łpkłcn'łkgtcvłqpu

Vj gug'ugr u'y gtg'wugf 'v'etgcvg'vj g'hqy 'o qf gr0

- 3+ " Gzr qtv'cp'łpkłcn'F GO 'łtqo 'vj g'NkF CT 'f cvc'wukpi 'vj g'NR582'gzr qtv'y k ctf 0'Vj ku'łpkłcn'F GO 'y km'dg'tgr megf 'kp'gcej 'hqmqy łpi 'łkgtcvłqp'd{ 'c'pgy . 'o qf kłgf 'F GO 0
- 4+ " Twp'vj g'vqrdqz 'o qf gr'qt' 'CteI KU'vqqu+'v'etgcvg'7'f gtxgf 'tcuvt'rc{ gtu<"
Hkmgf F GO '*wukpi '5h' /vj tguj qrf +."
J kmj cf g."
Hqy F k."
Ukpmu.'cpf
Hqy Cee'*Hqy 'Ceewo wrvłqp+'y j lej 'i kxgu'hqy cee'cu'qwr w0
- 5+ " U{ o dqrł g'ukpmu'cu'c'ukpi ng'ercuu'y kj 'qpg'eqmt0
- 6+ " U{ o dqrł g'hqy cee'cu'4'ercuu'y kj 'xcnwg'qh'2/422'dgłpi "ōengctō'cpf 'xcnwg"@422"
dgłpi 'eqmtgf 00 cpk wrvg'vj g'f kur rc{ 'r tqr gt vgu'd{ 'wukpi 'vj g'ōercuukłecvłqpō'qr vłqp"
qp'vj g'F kur rc{ 'r tqr gt vgu'cd'ej cpi łpi 'vj g'xcnwg'vj tguj qrf u0

P qvg'<vj ku'422'egm'ceewo wrvłqp'vj tguj qrf 'ku'ugrgev'f' dcugf "qp'vj g'ceegr vdrng'tguwmu'cpf " ecp'dg'ej cpi gf 'kp'qtf gt 'v'f kur rc{ 'f kłgtgpv'ngxgn'qh'f gckłkp'vj g'hqy 'ceewo wrvłqp'rc{ gt0

5005" Gxcnvcłpi 'Ukpmu

Ukpmu'y gtg'etgcvgf 'kp'vj ku'ugr 'v'uko wrvg'vj g'qwhqy 'necvłqpu'kp'vj g'y cvgtuj gf 0

Vj g'łpkłcn'o qf gr'wugu'c'vj tguj qrf 'xcnwg'qh'5h'v'q'hkml'ukpmu'kp'vj g'F GO 0'kp'vj ku'cunli tqwr . 'tg/ twp'vj g'Hkml'eqo o cpf 'cpf 'gxcnvcg'vj ku'vj tguj qrf 0

Vj ku'ku'r ctv'qh'vj g'łkgtcvłxg'r tqeguu'cpf 'y km'pggf "v'dg'tgr gcvgf "qp'gcej "pgy n{ "gzr qtv'f " F GO 0'Qpeg'cp' cr r tqr tlcvg'hkml'vj tguj qrf "ku'guvcdn'uj gf . "k'y km'tgo cłp'eqpuv'v'ht' "vj g' tgo cłpf gt'qh'vj g'o qf gr'f g'xgnr o gpv0

Tgemuukł{ 'gcej 'ukpm'qwr w'v'q'qpg'ercuu'cpf 'i kxg'gcej 'rc{ gt'c'f kłgtgpv'eqmt'v'vj g{ 'ecp'dg' xkucm{ 'eqo r ctgf 0Nqnm'cv'vj g'Ukpmu'y kj 'vj g'ōVkp'y kj 'r qkpwō'xkgy 'kp'NR5820'Vj g'r tko ct{ " i qcn'qh'vj ku'cunli'ku'v'wug'vj g'cwqo cvgf "vqqu'cu'o vej 'cu'r quukdrng'v'tgf weg'vj g'pwo dgt'qh' uwtłceg'ukpmu'v'c'o cpci gedng'pwo dgt'y kj qw'ōqxgthkłpi ō'vj g'uwtłceg0

Vj g'xcu' o clqtkv{ "qh'ukpmu'ctg"uo cm'łpf gpvcvłqpu'kp'vj g'NkF CT' uwtłceg'vj cv'ecp' dg' cwqo cłecm{ 'tgo qxgf 'y kj 'vj g'hkml'eqo o cpf 0C'tgcupcdng'v'ctvłpi 'r qkpv'ht'c'ukpm'vj tguj qrf " ku'5h0'F gr gpf łpi "qp'vj g'ukł g'qh'vj g'ctgc. "vj g'vqcn'pwo dgt'qh'ukpmu'ecp' dg'tgf weg' "łtqo " 32.222- 'v'łwuv'ugxgtcn'j wpf tgf 0

Tgemuukł{ 'NCU'r qkpw'łtqo "ōi tqwpf ō'ercuu'v'ōEmuu'42ō'wpvkl'vj g'Vkp' 'ku'uo qqvj 'kp'vj cv'ctgc0

J qy g'xgt. 'pqv'cm'ukpmu'uj qwr 'dg'tgo qxgf 0'kp'v'qo g'ecugu. 'ukpmu'ctg'ngi kko cvg'cpf 'uj qwr 'dg' ngl'm'cmppg0Cv'vj g'eqpenwłqp. 'ucxg'vj g'CteI KU'r tqłgev'cpf 'tg/gzr qtv'c'pgy 'F GO 'łtqo 'NR5820

Qpeg'vj g'pgy 'F GO 'j cu'dggp'gzr qtv'f 'łtqo 'NR582. 'tg/twp'vj g'tcuvt' o qf gr'łtqo 'Vcunli tqwr " %ō. "gpwłłpi 'vj cv'cp{ 'pgy 'hkml'r ctco g'vgt 'ku'wr f cvgf 'cu'r ctv'qh'vj g'Hkml'eqo o cpf 0'Vj ku'y km' tguwv'kp'hxg'pgy 'tcuvtu0Tgpco g'cm'qh'vj go 'v'qi gvj gt'ht'vj g'pgz'v'łkgtcvłqp0



Cv'vj ku'r qkpv.'O QUV"qh'vj g'ukpm'vj cv'pggf 'vq'dg'tgo qxgf 'j cxg'dggp'tgo qxgf 'gkj gt'o cpwcm{ "
qt"cwqo cvkcm{ . "cpf "qpg"ecp"dgi kp"vq'gxcnmcvg'vj g'pggf "vq'cf f "i wwgt. "dgt0 . "cpf "ewxgtv"
dtgcmkpgu0

5006" Etgcvkpi "dtgcmkpg'hgcwtgu

Dtgcmkpgu'ctg'tgs wktgf 'kp"qtf gt 'vq"eqttgevhmy 'r cwgtpu'htqo 'vj g'I KU'o qf gn

\ qqo "vq"3-3222"qt"3-4222"o ci pkkccvkqp"vq"r cp"cpf "mqnm'hqt"kuwgulgttqtu"kp"vj g"hmjy "
ceewo wrvkqp'rc{ gt'ugg'u{o dqmji { 'lpwtwevkpu'kp"Vcum'I tqwr "%0Gxcnmcvg'kuwgu'cv'3-622"
o ci pkkccvkqp. "gf k'v'cpf "f ki kkk g'cv'3-422"o ci pkkccvkqp0

Y j gp'c'pgy 'hgcwtg'emuu'ku'etgcvgf. "ej gen'vj g'dqz 'vq'gputg'k'j cu\ 'xcnmg"400'5F 'r qn{ rkp+0'
Cf f 'vj g'0NR582'F ki kkk g'Dtgcmkpg0'vqndct0'Vj gtg'ctg'c'pwo dgt'qh'eqphrcvkqp"vqndqh'qr vkpu."
o cp{ 'qh'vj g'qr vkpu'ctg'r tg/eqphki wtgf 0

Vq'f { pco kcm{ "uj qy "vj g"ko r cev'qh'qpgau'pgy "dtgcmkpgu."wug"vj g'f kur rc{ "vcd"qh'vj g"NCU"
rc{ gt'r tqr gt'vku'cpf "ugrge'vj g'hgcwtg'emuu'dgkpi "gf kkgf "vq'gphqteg'dtgcmkpgu0'Vj g'dtgcmkpg"
y kn'dg'gphqtegf "f { pco kcm{ "dcugf "qp"vj g'eqphrcvg"vqnd'ugvkpi u{"qwe'j qqug0

O cng'wug'vj g'NCU'kngu'ctg'qr gp'hqt 'T IY 00 cng'wug'vj g'tki j v'r qkpw'ctg'f kur rc{ gf "i tqwpf "
r qkpw'qp{n '+dgecwug'vj g{ 'y kn'dg'tgencuukhgf "vq'vj g'f gukpcvkqp'r qkpv'encu"ej gen'vj g'0htqo 0"
cpf "vj g'0vq0'emuu'kccvkqp'ugvkpi u0'Vj g'i qcnj gtg'ku'vq'i q'htqo 'I tqwpf "Vq'Ercu"420

Vj gtg'ctg'uco r "vqnu."r ckpvdwuj "uv'ng'vqnu."cpf "f tcy "vqnu'vq'uwr r qt'v'ugrgevkpi "r qkpw'vq'dg"
tg/emuu'khgf 0J k'ur cegdet "vq"uc{ "0f qpg0"cpf "eqo o k'vj g'ej cpi gu'y kj "tg/emuu'kh{ kpi 0'Gxgp"
chgt "0tgo qxkpi 0"vj g'r qkpw'htqo "vj g'i tqwpf "emuu."vj g'VRP "o c{ "ukm'dnqen'vj g'hmjy ."j gpeg"
dtgcmkpgu"o c{ 'j cxg'vq'dg'cf f gf 0

Ucxg'gf ku."ucxg'r tqlgv0

5007" Tckupi "vj g'gngxcvkqp'qh'vj g'Dgto u'wukpi "CteI KU

- 3+" Kp'Cte'Ecvnqi "F grvg'cp{ "qrf "xgtukpu'qh'Dgto ua322"kh'k'gzkuu+
- 4+" Kp'Cte'Ecvnqi . "Eqr { "Dgto u'tki j v'o qwug'erken'qp"Dgto u/ @eqr { +
- 5+" Rcuvg"cpf "tgpc0 g'tki j v'o qwug'erken'vj g'Dtgcmkpg'Hgcwtg'F cvcugv @ cuvg. "tgpc0 g"
htqo "Dgto ua3"vq"Dgto ua322+
- 6+" Tvp'vj g'F cvc'O cpci go gpv @Hgcwtgu/ @Cf lwu'5F\ "vqnd'qp"vj g'Dgto ua322"
hgcwtgu0

O cng'wug'vj g'Dgto u'322'hgcwtg'emuu'ku'cf f gf "vq" { qwt'CteI KU'Rtqlgev'uq'vj cv'k'ecp'dg'wugf "
hqt'dtgcmkpg'gphqtego gpv'kp'vj g'F GO "Gzr qtvr tqegu0

5008" Gzr qtvkpi "c'pgy "F GO 'htqo "NR582."gphqtekpi "dtgcmkpgu

Vj ku'ugr "uvtu'vj g'pgzv'kgtcvkqp'ugs wpeg'vq'ecrkdtcv'vj g'o qf gr0Dg'eqpukvgpv'y kj "kgtcvkqp"
pwo dgtkpi 0'Gcej "ko g'c'pgy "F GO "ku'gzr qtvgf. "cuuki p'vj g'pgzv'kgtcvkqp'pwo dgt'vq'k'cpf "cm"
uwdugs wgpv'f gtxcvkxg'rc{ gtu0



Wug'vj g'Gzr qtv'NkF CT'f cwc'vqqr'qp'vj g'NR582'vqqrct0'Vj ku'dtkpi u'wr 'vj g'vj tgg'uvr 'y k ctf 0
 Vgm'k'y j lej 'r qkp'u'wuv'i tqwpf '+cpf "o cng'uwg'vj g'dtgcmlpg"ghqtego gpv'ku'ej gengf "cpf "
 ej qqug'vj g'hgcwtg'ercuu'q'w'y cpv'q'kpenwf g'*g0 0'Dgto ua322.'I wwgtu.'Ewxgtu+0

Ej qqug'lwuv'i tqwpf 'r qkp'u.'ugv'vj g'egm'uk g'*k0'5h+0

Uwthceg'o gyj qf "? 'VRP . 'wug'Dkpc{ 'Tcuvgt'hqt'vj g'g'zr qtv'*engcpgu'cpf 'hcuvgu+0

Ecp'wug'cp{ "gzvgpv'hqt'vj g'g'zr qtv'hqt'v'gukpi 'r wtr qug0F qgupw'j cxg'v'q'dg'vj g'ko k'qh'NkF CT"
 f cwc.'ecp'dg'lwuv'c'r ctv'ewrt'CQK'y cvgtuj gf "dqwpf ct{ . 'dwhgtgf "ctgc"ctqwpf "vj g'dqwpf ct{ . "
 gve0

Gzr qtv'v'q'c'nekvqp.'dg'f kki gpv'cdqww'xgtukqp'eqptqnu0

Vj g'gpf "qh'vj ku'uvr 'ku'c'pgy n' "gzv'cev'f 'F GO "vj cv'j cf "uqo g'ukpmu'tgo qxgf 'd{ "j cpf '*vj tqwi j "
 r qkp'v'ercuuk'ecv'qp+"cpf "j cu'dggp"oj { f tq/ghqtegf o'y kj "qpg"qt"o qtg'hgcwtg'ercuugu'qh"
 dtgcmlpgu" *g0 0" dgto u." i wwgtu." ewxgtu+0' k" uqo g" ecugu." qvj gt" r qkp'u" j cxg" cnuq" dggp"
 tgeruuk'hgf " v'q" o cng" vj g' uwthceg" r gthqto " r tqr gtn' " *g0 0" ctqwpf " i wwgtu+0' Gxgt{ " g'zr qtv'
 TGRNCEGU'vj g'r t'gxlqu'g'zr qtv'0'Wko cvgn' "cm'vj g'r t'gxlqu'uwthcegu'ecp ly kn'dg'f g'g'v'f 0'K'
 ku'i qqf "v'q'nggr 'eqr'ku'hqt'c'y j kg'v'q'hki wtg'qww'j qy "vj kpi u'j cxg'ej cpi gf "y kj "gcej 'kgtcv'qp."
 r ctv'ewrt' "y j gp'vj kpi u'ctgpw'y qtnkpi "cu{ qw'o k j v'g'zr gev0

500" Kgtcv'qpu

Vq'etgcvg'c'ecr'kdtcv'gf "o qf g'ri'kgtcv'qp'ku'tgs wktgf 0

Vj ku'pgy "F GO "g'zr qtv'*gcej "pgy "kgtcv'qp+"pggf u'v'q'j cxg'ukpmu'hkngf . "pgy "hny "f k'ge'v'qp."
 pgy "ukpmu" cpf "pgy "hny "ceewo w'v'qp" r gthqto gf "cpf "vj g"t'guwmu" gxcn'cev'f "ci ckpuv'vj g"
 r t'gxlqu't'guwmu'hqt'ej cpi gu0Gcej "dtgcmlpg'pggf u'v'q'dg'ej gengf "v'g'puwtg'k'j cf "vj g'lpv'pf gf "
 gh'gev0

Ki'c'dtgcmlpg'f k'f p'w'y qtn'eqttgevn' . "gzco kpg'emugn' "vj g'uwttqwpf kpi "g'g'xcv'qp'xcn'wgu'k'vj g"
 VRP "cpf 'h'kp' "qww'y j { "vj g'dtgcmlpgu'ctg'pqv'y qtnkpi "dghqtg'uko r n' "tg/f tcy kpi 0'D{ "gxcn'wv'kpi "
 vj g'uwttqwpf kpi "g'g'xcv'qpu." qpg'ecp'f g'v'gto kpg'y j gtg'vj g'hny "y kn'i q'chgt'vj g'dtgcmlpg'ku"
 ghqtegf 0'Qpeg'c'eqo r t'g'j gpukx'g'ugv'qh'dtgcmlpg'gf k'ku'eqo r g'v'f "gpf "qh'305+.'i q'dcem'v'q"
 306'cpf "tg/g'g'xcv'g'vj g'dgto u." g'zr qtv'c'pgy "F GO "cpf 'eqpv'kw'g'v'q'kgtcv'g'vj tqwi j "dtgcmlpgu"
 wp'v'k'cm'ctgcu'j cxg'dggp'engctgf "hqt'r tqr gt'uwthceg'hny "dgj cxkqt0

C"o qf w'g'pco gf "WdcpaF t'clpci ga0 qf gm'Dcuk'ku'dwku'v'q'g'zr qtv'ukpmu.'hny "f k'ge'v'qp'cpf "
 hny "ceewo w'v'qp'hqto "uwthceg"o qf g'ri'f k'gevn' "k'gcej 'kgtcv'qp0

Qpeg'cm'l'uwgu'j cxg'dggp't'guq'xgf . "vj g'hkpcn'F GO 'ku'tgcf { 'hqt'ct'v'k'ekcn'utgco "cpf 'ecvej o gpv'
 f g'ri'p'gcv'qp0

504" K'gpv'kh'f "f t'clpci g'eqptkdwkpi "ctgcu

K'p'qt'f gt'v'q'etgcvg'c"o qf g'ri'v'j cv'ur gek'hgu'j qy "f k'htg'p'v'uwtegu'qh't'wpq'h'k'vj g'y cvgtuj gf "ko r cev"
 vj g'qww'hny . "eqptkdwkpi "hny "ctgcu'pggf "v'q'dg'k'f gpv'kh'gf 0'Vcdng'504'f guet'kdgu'hgcwt'gu'wugf "
 cpf 'i g'p'gcv'gf "k'vj cv'ej cr vgt0

Vcdrg'504'Hgcwtg'rkv'lp'kf gpvkh{ 'f tclpci g'eqpvdwkp 'ctgc

HkgIHgcwtg'Ercuu		F guetkr vkqp
J ki j y c{		Xgevqt'hqto cv'hkpgu
Nqy 'tguqnwkqp'F GO 'f cvc		Tcugt, 'hqo 'RCO CR
Ewtdu		Xgevqt'hqto cv'hkpgu
5J ki j 'tguqnwkqp'F GO " f cvc kp'Nqy F GO 0 f d	Ct'vhekn'Utgco ax43a4722	Ct'vhekn'Utgco 'y kj 'ceewo wrvkqp" vj tguj qrf '4.722'egmu
	Ct'vhekn'Utgco ax43a42222	Ct'vhekn'Utgco 'y kj 'ceewo wrvkqp" vj tguj qrf '42.222'egmu
	EqpvdCtgcDtkf i g	Eqpvdwkp'ctgc'eqpukf gtlpi "dtkf i gu" cpf 'ewtdu
	EqpvdCtgc	Eqpvdwkp'ctgc'y kj qw'eqpukf gtlpi " dtkf i gu'cpf 'ewtdu
	Qwrgvadtkf i g	Qwrgw'qh'gcej 'eqpvdwkp'ctgc'eqecvgf " cvj ki j y c{ "kj ki j y c{ "gpvcpeg'r qkpwu+" eqpukf gtlpi "dtkf i gu
	Qwrgvu	Qwrgw'qh'gcej 'eqpvdwkp'ctgc'eqecvgf " cvj ki j y c{ "kj ki j y c{ "gpvcpeg'r qkpwu+" y kj qw'eqpukf gtlpi "dtkf i gu
Nqy 'tguqnwkqp'F GO " f cvc'kp O qf hkgf J ki j F GO 0 f d	Ct'vhekn'Utgco ax43a4722	Ct'vhekn'Utgco 'y kj 'ceewo wrvkqp" vj tguj qrf '4.722'egmu
	Ct'vhekn'Utgco ax43a42222	Ct'vhekn'Utgco 'y kj 'ceewo wrvkqp" vj tguj qrf '42.222'egmu
	EqpvdCtgcDtkf i g	Eqpvdwkp'ctgc'eqpukf gtlpi "dtkf i gu" cpf 'ewtdu
	EqpvdCtgc	Eqpvdwkp'ctgc'y kj qw'eqpukf gtlpi " dtkf i gu'cpf 'ewtdu
	Qwrgvadtkf i g	Qwrgw'qh'gcej 'eqpvdwkp'ctgc'eqecvgf " cvj ki j y c{ "kj ki j y c{ "gpvcpeg'r qkpwu+" eqpukf gtlpi "dtkf i gu
	Qwrgvu	Qwrgw'qh'gcej 'eqpvdwkp'ctgc'eqecvgf " cvj ki j y c{ "kj ki j y c{ "gpvcpeg'r qkpwu+" y kj qw'eqpukf gtlpi "dtkf i gu

50408" Etgcvkpi 'ct'vhekn'utgco u'cpf 'ecvej o gpv

Vj g'f ghpkqp'qh'ecvej o gpv'ctgc'ku'f gxmqr gf 'd{ 'etgcvkpi 'ct'vhekn'utgco u'q'kf gpvkh{ 'cpf "
f gnpvcg'vj go 0

Y kj 'o qf hkgf 'F GO 'etgcvgf 'kp'Ej cr vgt'3.'pgy 'hny 'f tgevkqp'cpf 'hny 'ceewo wrvkqp'hgcwtg'u"
ecp'dg'i gpgtcvgf 'cu'uj qy p'lp'vcdrg'30

Twp"vj g"vqndqz"o qf gr'Ur cvkn'Cpcn{uv" @Ugv'P wnm'ugv'hny "ceewo wrvkqp'hgcwtg"*g0 0'
RkwJ {ftqax47aHqCee+'cu'kpr w'eqpf kkpnc'tcvt0'Wug'gxr tguukqp'uwej 'cu'q'Xcnwg">"4222"
kp'vj ku'vgr.'cp{ 'tcugt'i tlf'y kj 'XCNWG'dgmj 'vj g'ugv'vj tguj qrf 'y qwf'dg'ej cpi gf 'vq'P wno'
Ucxg'vj g'qwr w'cu'Ugv'P wnm.'.tgr mckpi '0\ 0'y kj 'vj g'hny 'ceewo wrvkqp'vj tguj qrf '*g0 04222-0

Twp'0Ugv'P wnm'vqndqz'Ur cvkn'Cpcn{uv'vqndqz



Qwr w'tcugt<'UgP wn\ '*Tgr nckpi "ö\ ö'y kj "vj g'hqy "ceewo wrvqp"vj tguj qrf "*gf 0"4222"
egmu+

Twp'vj g'Ur cvkn'Cpcn\ u'/'@J { f tqm { '/'@Utgc "vq'Hgcwtg'vqpn<

Kpr w'utgco 'tcugt<'öUgP wn\ ö

Kpr w'hqy 'f ktgevqp'tcugt<'öHqy F ktö.

Qwr w'r qn\ nkg'hgcwtgu<'Ct v hkn'Utgc ua\ 0

Vj gp'etgcvg'ct v hkn'ecvej o gpv'wpf gt'ugnev'utgco "pgw qtn0

Wulpi "vqqr'Ur cvkn'Cpcn\ u'/'@J { f tqm { '/'@Utgc "Nkpn<

Kpr w'UgP wn\ . 'hqy 'f ktgevqp

Qwr w'UtNpn\ 0

Wulpi "vqqr'Ur cvkn'Cpcn\ u'/'@J { f tqm { '/'@Y cvgtuj gf <

Kpr w'UtNpn\ *tgr nckpi \ 'y kj "vj g'hqy "ceewo wrvqp"vj tguj qrf +

Qwr w'Y cvgtuj gf\

Hkpcn\ "wulpi "vqqrqz'Tcugt"vq'Rqn\ i qp"eqpxgtv'tcugt'y cvgtuj gf "Y cvgtuj gf\ "vq'r qn\ i qpu"
pco gf "Ecvej o gpw\ 0

C"o qf wrg."öWdcpaF tclpci gaO qf gmEcvej o gpwö."ku'dvkn'lpeqtr qtcvki "cdqyg'ugr u."wulpi "
wugt/r tqxf gf "grgxcvqp."hqy "f ktgevqp."hqy "ceewo wrvqp"cpf "vj tguj qrf "vq'etgcvg'ct v hkn'
utgco "cpf "ecvej o gpv'f ktgev\ 0

5040" Gxcnvcvki 'hqy "ceewo wrvqp"Vj tguj qrf

C"o kplö wo "vj tguj qrf "pggf u"vq"dg"guvdrkuj gf "vq'etgcvg"ecvej o gpv'ctgcu"y kj "uki p hkn'cpv"
hqy u0

Vt { "cpf "kgtcvg"vj g"cdqyg"o qf wrg"vq"qdvclp"utgco u'cpf "ecvej o gpw'y kj "f k hgt gpv'vj tguj qrf "
xcnvgu"vq"i gpgtcvg'utgco "nc { gt'y kj "eqo r rgzk\ "cr r tqr tlcvg'hqt"cpn\ uku0Vj g'r wtr qug'ku"vq"
nqecvg'utgco "hqy "gptcpeg'r qlpv'vq"RgppF QV'r tqr gtv\ "tki j vqh/y c { 0Vj qug"gpvcpeg'r qlpv'
ku'kf gpv hkgf "d { "lpygtugevki "utgco "r qn\ nkg"y kj "RgppF QV"tki j vqh/y c { "dqwpf ct { 0Vj gug"
gpvcpeg'r qlpv'j cu'dggp'wugf "hqt'hpf kpi "vj g'eqtgur qpf kpi "hqy "eqvtdwki "ctgc0

Hqt "vj g"uwf { ."cp"ceewo wrvqp"vj tguj qrf "qh"4222"egmu"ku'eqpukf gtgf "cr r tqr tlcvg" hqt "
f gvgto kplpi "hqy "gptcpeg"vq"j ki j y c { "tki j vqh/y c { 0' Vq" kpenw'g"o qtg" f gcku" qp"uo cm'
eqvtdwki "ctgc."cp"ceewo wrvqp"vj tguj qrf "qh"4722"egmu'ku'ugnev'gf 0

5045" Kf gpv hkgf kpi "gptcpeg'r qlpv"vq"j ki j y c { "tki j vqh/y c { 'htqo "qvj gt'r tqr gtvgu

Kp"qtf gt "vq"kf gpv hkgf "eqvtdwki "hqy u"vj cv'ctg"pqv'j ki j y c { "tgrv'gf."gptcpeg'r qlpv'pggf "vq"
dg'kf gpv hkgf "hqt"vj gug'r gtxkwu'hqy "ctgcu"qp"r tlcvg'r tqr gtv\ 0



Kp"Cte"Ecvmqi ."etgcvg"pgy "r qkp'uj cr ghkg"pco gf "qwwgv0'Qr gp"gf kqt"vqn"enem'ouctv'
gf kkp'i ö."ugrgevdöqwwgvö'uj cr ghkg"cu'gf kkp'i 'hgcwtg0'kp"gf kqt"vqn'dct."enem'öetgcvg'hgcwtgö0

Nqecvg'kpvtugev'kp'r qkp'u'dgy ggp'hmy "r cvj "Ct'Whecn'Utgc0 42222+'cpf "j ki j y c{"tki j v'qh/"
y c{"dqwpf ct{"0'Enem'qp"gcj "kpvtugev'kp'r qkp'v'q'etgcvg'r qkp'v'hgcwtg'kp"qwwgv'uj cr ghkg0

Qr gp"Ct'Whecn'Utgc0 4722"v'ej gen'lh'y gtg'ctg'o kulpi "kpvtugev'kp'r qkp'u'hqt'o clp'utgc0 "
hmy "r cvj 0Cff'o kulpi "r qkp'u'v'v'g"qwwgv'hgcwtg0

5046" F gnp'gcv'kp"qh'eqv'kdw'kp'i "ctgc

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y cvgtuj gf "f gnp'gcv'kp0

Kp"Cte"Vqqrqz."qr gp"vqqrqz"Ur cvkcn'Cpcn{uv'@J {ftqmi {"@Y cvgtuj gf 0'Kpr w'hmy "f kge'v'kp"
*HqF k+'cpf "kpr w'gpvcpeg'r qkp'u'qwwgv+'cu'r qwt'r qkp'v'ucxg"qwr w'cu'Eqv'kdCtgc0'Vj ku"
r tqf wegu'c"eqv'kdw'kp'i "ctgc'hqt"gcj "gpvcpeg'r qkp'v'qwwgv0

505" Ego rctg'hmy "r cvj "cpf "ftclpci g'ctgc'htqo "f khtg'gpv'tguqnw'kp"NkF CT"f cvc

5058" F cvc'uqwtg

Qpeg'v'g'o qf g'n'ku'guvdrkuj gf ."v'g'ko r cew'qh'y g'tguqnw'kp"qh'NkF CT"f cvc"qp'v'g'tguwmu"
ecp'dg'f gvgto kpgf 0'Vj ku'r tqegf wtg'hqt'f qkpi "uq'ku'i kxgp'dgmy 0

Vj g'htuv'f cvcug'v'g'hqewu'qp'ku'4236'NkF CT"O ggv'kp'i "WUI U'S N4'Ucpf ctf +'tgo qvg'ugpukpi "
f cvcug'u'htqo "Cmgi j gp{"Eqwpv'0'Vj g'htuv'ej cr vgt'ku'cnuq'dcugf "qp'v'ku'f cvcug'0'Cpqj gt"
r wdrle/cxckrdng'hmy gt/tguqnw'kp"NkF CT"f cvcug'v'y j lej "qpn' 'o ggv'WUI U'S N3'ucpf ctf "y cu"
wugf "hqt"eqo r ctukqp0'Vj g'hmy gt/tguqnw'kp"NkF CT"f cvcug'v'ku'qdv'kpgf "htqo "RCO CR"v'f cvcug'
ku'cnuq'htggn' "cxckrdng'htqo "RCUF C-0Y gd'hkpmu'v'v'g'f cvcug'v'ctg'hkugf "j gtg<

[j wr <ly y y 0'co cr f'cpt0'v'v'g'0'c0wulr co cr lf cvcauqwtg0'ur z"](#)

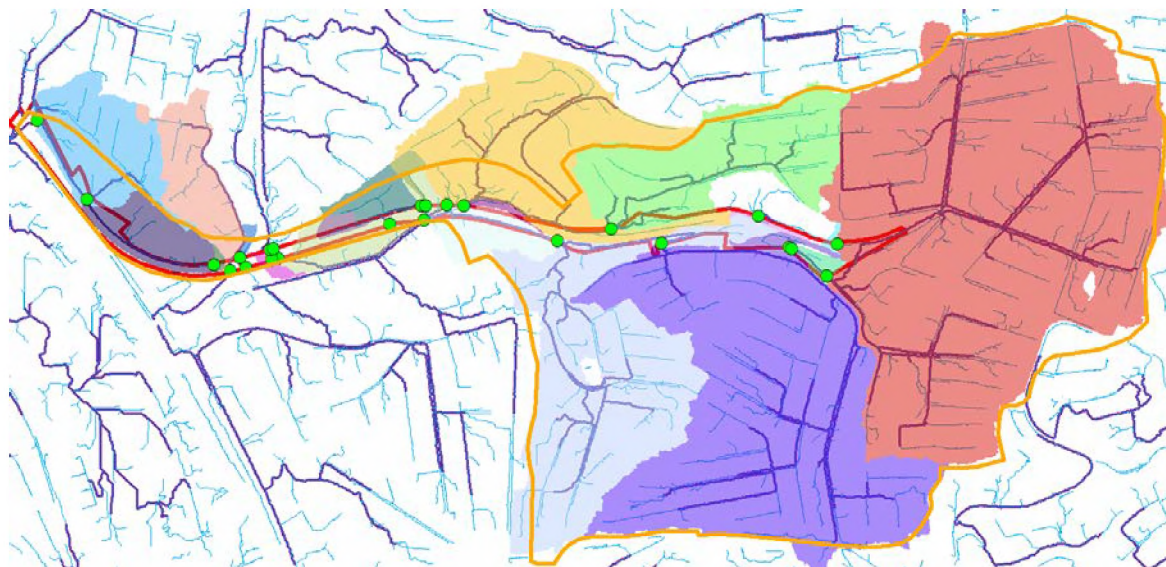
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f cvcug'v'dgecvug'uo cm'grgxcv'kp'ej cpi gu'kp'tgcrk{ "g0 0tqcf "ewtdu+ecp"qpn' "dg'kf gpv'hkgf "d{"
f cvcug'v'y kj "j ki j "gpqwi j "tguqnw'kp0'Y j gp'v'g'grgxcv'kp'f cvc'tguqnw'kp'ku'pqv'j ki j "gpqwi j ."
v'g'hmy "r cvj u'o c{"pqv'cr r get'pcwtcm{ "hqt"v'g{"y qwf "pqv'hqmy "v'g'tqcf y c{"y j gp'v'g{"
uj qwf "j cxg+0

50504" Ego rctkpi "ö'hmy /v/RgppF QV"j ki j y c{"tki j v'qh/y c{"ö"ctgc'y kj qw'eqpukf gtlpi "
ewtdu'cpf "dtkf i gu'wulpi "f khtg'gpv'tguqnw'kp'f cvcugu

Ewtdu'cpf "dtkf i gu'ctg'ko r qtv'p'v'hgcwtg'gu'cpf "v'gk'kpenw'kp'chhgeu'v'g'tguwmu'qdv'kpgf 0'Vj ku"
ugev'kp'f guetkdg'v'g'tguwmu'qdv'kpgf "y kj qw'kpenw'kp'i "v'go "kp'v'g'o qf g'kp'i 0'Vj gug'tguwmu"
f q'pqv'eqpukf gt "dtkf i g'cu'cp'grgxcv'gf "r ctv'cm{/eqplhkgf "utwewtg0

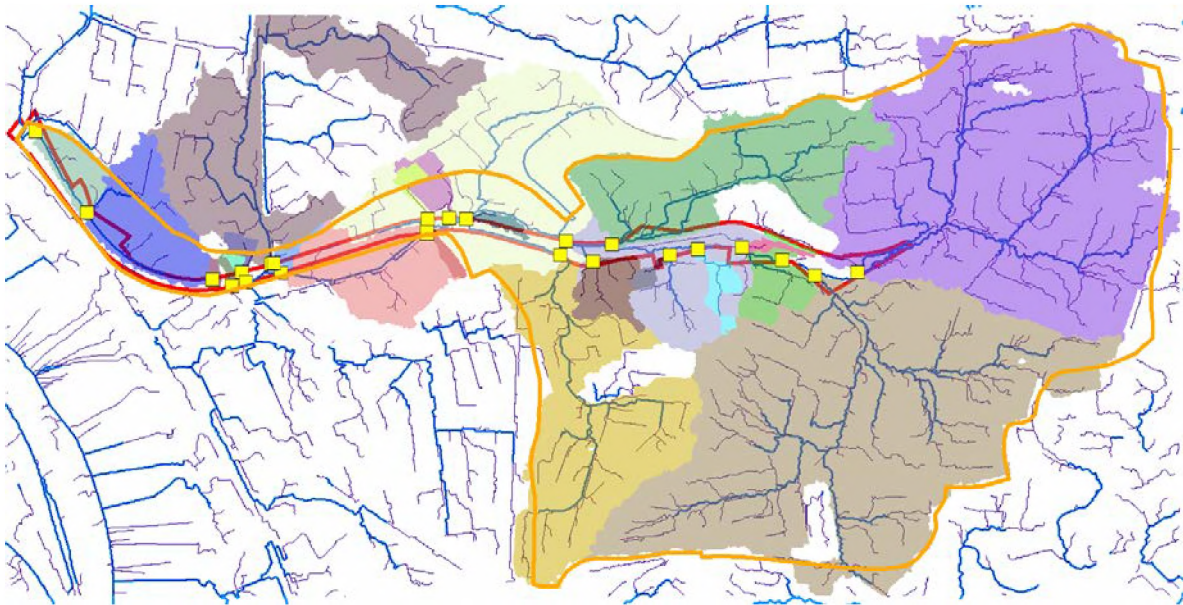
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 RgppF QV" j ki j y c{ "tki j vqh/ y c{ "h" qo "dqj "NkF CT" f cvcugv0 Hki wtgu"50" cpf "50" ctg" y g"
 tgr ge vkg'kf gpv'kgf "eqpvtldwlp "ctgcu0



Legend

- Study Area
- Highway
- Highway Entrance Points
- ArtificialStream_2,500
- ArtificialStreams_20,000

Hki wtgu"50"Eqpvtldwlp "ctgc"q" j ki j y c{ "dcugf "qp"o qf hkgf "j ki j /tguqnlwkp "S N4."4"r vlo 4+
 NkF CT" f cvc



Legend

- Study Area
- Highway
- Highway Entrance Points
- ArtificialStreams_2,500
- ArtificialStreams_20,000

Hki wtg'504'Eqpvtldwkp"ctgc'vq'j ki j y c{ 'dcugf "qp'ny /tguqnwkp"*S N3.3'r vlo 4+'Nkf CT'f cvc

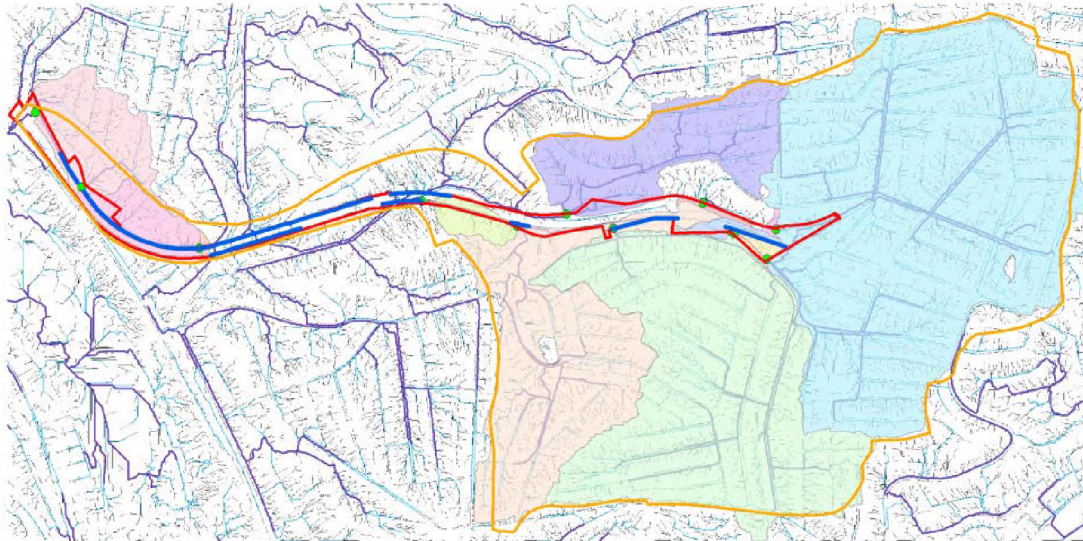
Vj g'vy q'kf gpv'kkgf "eqpvtldwkp" "ctgc"ctg'uko krt'lp"vto u'qh'vqcn'ctgc. "dw'f k'htgpegu"ctg" uggp"cv'qecv'kpu"pgct"vj g'dtkf i g. "lp"y j lej "vj g'wug"qh'ny /tguqnwkp" f cvcugv' i cxg"rti gt" eqpvtldwkp" "ctgc0

Vj g'vy q'f k'htg gpv't guqnwkp"grgxcv'kp" f cvcugv'j cxg'f k'htg gpv't guwv'lp"vj g'uj cr g'cpf "ctgc'hqt" gcej "qh'vj g'uo cm'eqpvtldwkp" "ctgc0Uko krt'f k'htgpegu'y gtg'qdugt'xgf "lp"vj g'q'wrgv'qecv'kpu" qh'gcej "uo cm'eqpvtldwkp" "ctgc0Vj gtg'htg. "f gr gp'f lpi "qp"vj g'ctgc'u'y j gtg'ucn'ku'cr r'k'gf. "vj g' hny "r cvj "f k'htgpegu"eqwf "r q'v'p'v'cm{ "ko r cev"vj g'ej m'k'f g"eqpegpvt'v'kp" guko cv'kp"qp" ch'gevgf "ctgc0

5050" Ego r ctkpi "oh'ny /vq/RgppF QV"j ki j y c{ "tki j v'q'h/y c{ ö"ctgc"eqpukf gtkpi "ewtdu" cpf "dtkf i gu'wukpi "f k'htg gpv't guqnwkp" f cvcugv

Vj ku'ugev'kp" f guet'kdu'vj g'tguwv'qdv'kpgf "y kj "ewtdu"cpf "dtkf i gu'kpen'v'gf "lp"vj g'o qf g'nl'cpf " j qy "vj g'tguwv'ej cpi gf "dcugf "vr qp"vj g'ug'hgcwt'gu0

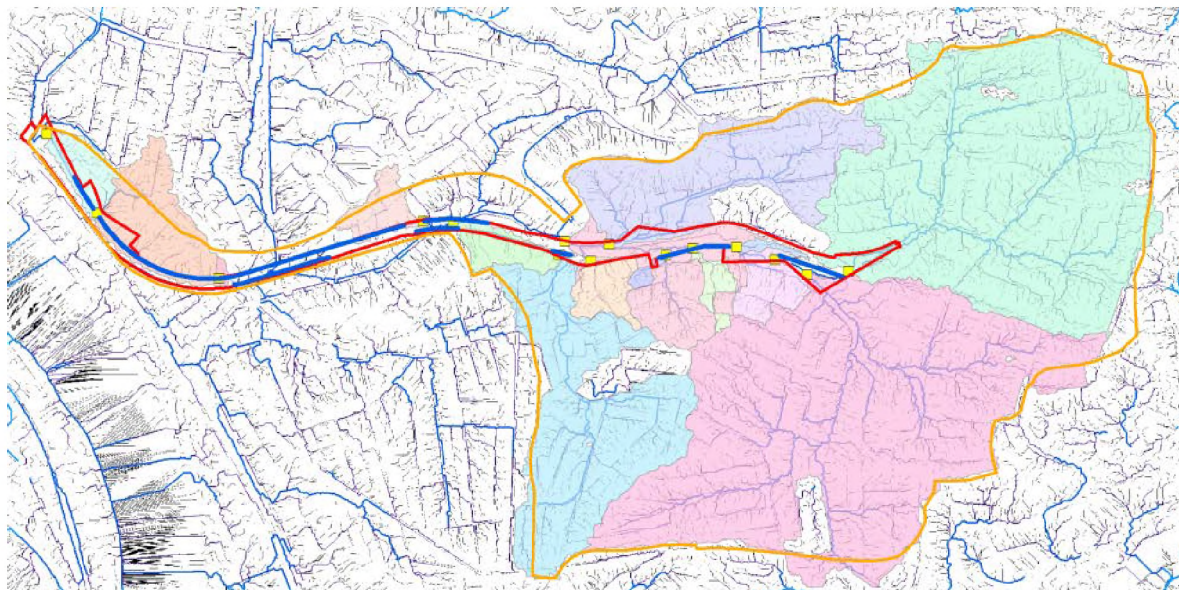
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Legend

- Study Area
- Highway
- Highway Entrance Points
- ArtificialStream_2,500
- ArtificialStreams_20,000
- ArtificialStream_250

Hki wtg'506"Eqpvtkdwkqp"ctgc"qj"j ki j y c{ 'dcugf "qp"o qf kkgf "j ki j /tguqnwkqp"S N4.'4"
 r vlo 4+"NkFCT"f cv'y kj "dtkf i g"cpf 'ewtd"ghgeveqpukf gtgf



Legend

- Study Area
- Highway
- Highway Entrance Points
- ArtificialStreams_2,500
- ArtificialStreams_20,000
- ArtificialStream_250

Hki wtg'50'Eqpvtldwkp'ctgc'v'j ki j y c{ 'y kj 'hgy /tguqnwkp'*S N3.3'r vlo 4+'Nk CT"
 f cv'y kj "dtkf i g'cpf "ewtd"ghgeveqpukf gtgf

506" I gpgtcvg'ctgcu'chgevgf "d{ 'hmy 'htqo 'RgppF QV'j ki j y c{

Cpqvj gt 'i qcn'qh'yj g'o qf gkpi 'ku'v'kf gpvkh{ 'y g'ctgcu'kp'y j kej 'hmy 'htqo 'RgppF QV'
j ki j y c{ "gpvtu0J qy 'yj qug'ctgcu'y gtg'kf gpvkhgf 'ku'f guetkdgf 'j gtgkp0Vcdng'505"
uwo o ctk gu'yj g'hgcwtgu'yj cvj cxg'vq'dg'dwkn'htq'f gkpgcvkpi 'y g'hmy 'ctgcu0

Vcdng'505'Hgcwtg'huv'htq'qdvcvkpi 'ctgcu'chgevgf "d{ 'hmy 'htqo 'RgppF QV'
j ki j y c{

Hkng'Hgcwtg'Ercuu		F guetkr vkp
J ki j 'tguqnwkqp'F GO " f cxc kp'Nqy F GO 0 f d	J ki j y c{ dqwpf c{ HwnJ ki j	vzvhkg Ncvkwf g'cpf "mipi kwf g'qh" j ki j y c{ "dqwpf ct{ 'r qlpw
	J ki j y c{ dqwpf ct{ HwnP qDtkf i gJ ki j	vzvhkg Ncvkwf g'cpf "mipi kwf g'qh" j ki j y c{ "dqwpf ct{ 'r qlpw" y kj qw'dtkf i g'r ctu
	J ki j Chgevgf Ctgc	Xgevqt 'htqo cv'r qlpw" Chgevgf 'Ctgc'y kj qw'dtkf i gu" ghgevg
	J ki j Chgevgf Ctgcadt k f i g	Xgevqt 'htqo cv'r qlpw" Chgevgf 'Ctgc'y kj "dtkf i gu" ghgevg
Nqy 'tguqnwkqp'F GO " f cxc'kp O qf hkgf J ki j F GO 0 f d	J ki j y c{ dqwpf c{ HwnNqy	vzvhkg Ncvkwf g'cpf "mipi kwf g'qh" j ki j y c{ "dqwpf ct{ 'r qlpw
	J ki j y c{ dqwpf ct{ HwnP qDtkf i gNqy	Vzvhkg Ncvkwf g'cpf "mipi kwf g'qh" j ki j y c{ "dqwpf ct{ 'r qlpw" y kj qw'dtkf i g'r ctu
	Nqy Chgevgf Ctgc	Xgevqt 'htqo cv'r qlpw" Chgevgf 'Ctgc'y kj qw'dtkf i gu" ghgevg
	Nqy Chgevgf Ctgcadt k f i g	Xgevqt 'htqo cv'r qlpw" Chgevgf 'Ctgc'y kj "dtkf i gu" ghgevg
I gvJ ki j y c{ Rqlpv		CteI KU'o qf wrg
I gvJ ki j y c{ RqlpvaEqpukf gtDtkf i g		CteI KU'o qf wrg
VtcegF qy pUtgco		CteI KU'o qf wrg I gv'chgevgf "ctgc'r qlpw

5060" Kf gpvkh{ kpi "ctgcu'lpv'y j kej 'y g'hmy 'htqo 'RgppF QV'j ki j y c{ "gpvtu

Chgt'kf gpvkh{ kpi 'y g'eqptkdwkpi 'ctgcu'qh'hmy 'lpv'RgppF QV'j ki j y c{ 'tki j vqh/y c{.'y g'cnaq"
guko cvgf 'y g'ctgcu'chgevgf "d{ 'hmy 'i gpgtcvgf 'htqo 'RgppF QV'j ki j y c{ 'tki j vqh/y c{0

Vq'f gygto kpg'yj g'ctgcu'chgevgf "d{ 'hmy 'htqo 'RgppF QV'j ki j y c{.'y g'pggf 'vq'hpqy "
f qy putgco 'hmy 'r cvj 'htq'gcej 'r kzgn'lp'yj g'j ki j y c{0Vj g'r tqegf wtg'gpeqo r cuugu'yj g"
hmqy kpi "uvgr u<



3+ Qdvclp'vj g'j ki j y c{ 'dqwpf ct{ 'r qlpw'cu'kpr w0

Vj ku'r ctv'qh'y qtn'ku'ecrewcvgf "dcugf "qp'r qlpv'hgcwtgu."cpf "vj gtghqtg"tgs wktgu'gxgt{ "tgrgxcpv'eqo r qpgpv'dg'eqpxgtvgf "vq'r qlpw'htu0

Vj g"htuv'uwr "ku"vq'eqpxgtv'j ki j y c{ 'dqwpf ct{ 'r qn{ rkp'vq'r qlpw0Vj g'y c{ "vq'eqpxgtv' r qn{ rkp'vq'r kzn'r qlpw'ku'cu'hqmy <

Eqpxgtukp"Vqqn"/ @Vq'Tcugt"/ @Rqn{ rkp'vq'Tcugt0P qvg<vj g'egm'uk g'pggf u'vq'dg'vj g' uco g'cu'vj g'grgxcvkp'f cvc'f qw'wug0

Eqpxgtukp"Vqqn"/ @Hqo 'Tcugt"/ @Tcugt'vq'Rqlpv0Qwr w'r qlpv'uj cr ghkg'ku'ucxgf "cu" 0J ki j y c{ Hwn{ 0"qt"0J ki j y c{ Hwn{ 0."tgr mclpi "0\ 0'y kj "0J ki j 0"qt"0Nqy 00J gtg"J ki j " cpf "Nqy "o gcpu'vj g'j ki j /tguqnwkqp'f cvcugv'cpf "my /tguqnwkqp'f cvcugv'f qw'wug0

I KJ"vqni'I gvJ ki j y c{ Rqlpv'ku'dwn'vq'lpemf g'cm'cdqyg'r tgeguu0J ki j y c{ "dqwpf ct{ " r qn{ rkp'vq'f "egm'uk g'uj qwf "dg'r tqxkf gf 0'Egm'uk g'kphqto cvkqp"eqwf "dg'qdvclpgf "htqo " vj g'r tqr gtv{ "qh'grgxcvkp'f cvcugv0

Ki' dtkf i g' hgcwtg"ku" vq" dg" eqpukf gtgf ." dqwpf ct{ " r qlpw" eqttgur qpf kpi " vq" vj g" dtkf i g" ugi o gpw'uj qwf "dg'f grgygf ."uq'vj cv'vj gug'r qlpw'y qp0'cev'cu'c'uqwtg'qh'y cvgt "hmy kpi "vq" qvj gt "r tqr gtvgu"*y cvgt "qp'dtkf i g' uwt'ceg'ecppqv'o qyg'htggf "vq'cpqvj gt "ctgc'f wg'vq'vj g" ugo k'eqphkpgf " pcwtg" qh' dtkf i g' uwt'ceg-0' Vj gug" o gpvkpgf " r qlpw" eqwf " dg" gkj gt" o cpwcm' f grgygf "htqo "0J ki j y c{ Hwn{ 0'dcugf "qp'vj g'ewtdu'qecvkp'cpf "o cr "lp'gf kkp i " o qf g."qt "f qpg" d{ "vcnkp i " cf xcpwi g" qh' vj g" I KJ'Gtcug" vqni'vq" tgo qyg" r qlpw" wulpi " 0J ki j y c{ Hwn{ 0cu'o cun0Ucxg'vj g'o qf kkgf "r qlpv'uj cr ghkg'cu"0J ki j y c{ Hwn{ D00

Vqqn'I gvJ ki j y c{ RqlpwEqpukf gtDtkf i g'ku'dwn'vq'lpemf g'cdqyg'r tgeguu'y kj "j ki j y c{ " r qn{ rkp'vq' dtkf i g'r qn{ i qp'cpf "vj g'egm'uk g'cu'tgs wktgf "kpr w0Egm'uk g'kphqto cvkqp"eqwf " dg'qdvclpgf "htqo " vj g'r tqr gtv{ "qh'grgxcvkp'f cvcugv0

Cff " Z" cpf " [" eqqtf kpcvgu" vq" r qlpv' uj cr ghkg0 Tki j v' enlem' 0J ki j y c{ Hwn{ 0" qt" 0J ki j y c{ Hwn{ D0"vq'qr gp'cwtldwg'cdng."cff "hgrf "y kj "0f qwdng0'v' r g.'pco g'vj g'hgrf "vq" 0Z00'Tki j v'enlem'0Z0."ugrgev'Ecrewcvg"I gqo gvt{ ."ugrgev"0Z "Eqqtf kpcvg"qh'Rqlpv0"kp" 0Rtqr gtv{ 0'eqnw p0Vj gp'qpg'i gw'vj g'z'eqqtf kpcvg'qh'gcej "r qlpv0Cff "{ "eqqtf kpcvgu'lp" c" uko krt'y c{ 0

Chgt "i gwkp i "dqvj "z" cpf "{ "eqqtf kpcvgu"qh'r qlpw."gztv'k'vq" c"00zv0"hg0Tki j v'enlem' 0J ki j y c{ Hwn{ 0"qt"0J ki j y c{ Hwn{ D0."ugrgev"0F cvc0"cpf "0Gzr qtv'F cvc00Ucxg"qwr w' hgcwtg'ercuu'vq"0J ki j y c{ Hwn{ 0zv0"qt"0J ki j y c{ Hwn{ D0zv0

4+ K0 r qtv'grgxcvkp'f cvc'vq'i gpgtcvg'hmy "f kgevkp"wulpi "Hkn'cpf "Hmy "f kgevkp"vqnu0

Eqpxgtv'tcugt "vq"cttc{ u'vq'i gv'wr r gt'ghv'z. { +."egm'y kf vj ."cpf "egm'y gki j v0Vj ku'gpcdngu'vj g" ceegu'vq'vj g'tcugt'xcmg'qh'vj g'egm'cuqekcvgf "y kj "qwt'r qlpv0

5+ O qyg'uactv'r qlpv'htqo "ku'ewtgpv'qecvkp'vq'vj g'pgzv'f qy putgco "egm'ceeqtf kpi "vq'hmy " f kgevkp*: "f kgevkp+y kj kp'vj g'tcugt0

Ej gen'ij g'xcnwg*3.4.6.: .38.54.86+qh'hmy 'f kgevqpp'i tlf "cpf "o qxg'vj g'r qkp'v'ceeqtf kpi n{0'
Kf'ij g'xcnwg'qh'hmy 'f kgevqpp'egm'kupv'ij g'gk j v f kgevqpp'xcnwg.'y j lej "o gcpu'ij g'egm'ku"
r ctv'qh'c'ulpm'ij g'r qkp'v'ij kmpqv'o qxg'v'ij g'pgz v'r qkp'v'dw'uqr 0'Vj cv'u'dgecwug'ij g'hkm'
ij tguj qrf 'ku'ugv'v'5'hggv'y j lej "j cu'dggp'gzr m'kpgf 'kp'Ej cr vgt'3<pv'cm'qh'ij g'ulpm'ij cxg"
dggp'hkngf 0

I gv'ij g'pgzv'f qy putgco "pgk j dqt"m'ecvqpp."kpetgo gpv'ij g'ewt'gpv'tqy ."eqn'r ckt"cpf "
tgwtp'ij g'tguwu0

6+ Tgr gcv'ij g'r tqegu'u'wpv'ij g'r qkp'v'o qxgu'dg{ qpf "ij g'gz v'gpv'qh'grgxcvqpp'f cvcugv'y g'ko r qtv0

Nqqr "uvgr '5'y kj 'tgwtp'm'ecvqpp'tqy ."eqn'v'q'hkpf 'pgz v'f qy putgco "m'ecvqpp0

7+ Uqtg'cm'ij g'hmy "r qkp'u'eqqtf kpcv'u'itqo "ij cv'uctv'r qkp0

8+ O qxg'v'ij g'pgz v'uctv'r qkp'v'cm'pi "ij g'j ki j y c{ "cpf "tgr gcv'ij g'r tqegu0

Nqqr "uvgr '5.6'cpf '7'hqt'ij g'pgz v'uctv'r qkp'v'v'ij ki j y c{ "dqwpf ct{0

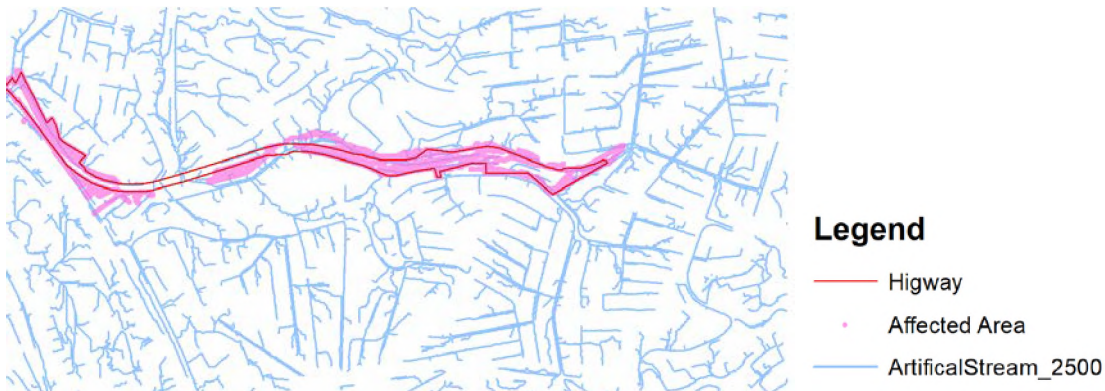
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: + Wug'ij g'pgy "cttc{ "v'q'uvqg'ij g'tguwu'y kj qw'tgr gcv'r qkp'u0'Cff "hmy "r qkp'v'm'ecvqpp"
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o go qt{0'hqt'gzco r ng."ij g'r qkp'u'qh'v'ij q'hmy "r cv'ij u'y qwf "dg"eqwpv'f "vy keg"chvgt"ij g{ "
Eqxgtv'ij g'r qkp'u'v'ij qkp'v'ij cr ghng0

Ucxg'ij g'qwr w'qh'ij g'o qf wng'cu'õChge'v'Ctgcö'y kj "qt"y kj qw'dtkf i g'cpf "ewtdu"
eqpukf gtgf 'hqt'ij ki j "cpf "hmy "f cvcugv0

Hki wtg'508"ij qy u'cp'gzco r ng'qwr w0'Vj g'ctgc'o ctngf "y kj "r kpm'eqm't'ku'ij g'chhge'v'f'ctgc'd{ "
hmy "itqo "RgppF QV"ij ki j y c{0'Vj g'tgf "hkg'tghgtu'v'q'RgppF QV"ij ki j y c{ "dqwpf ct{0

Y j gp'cpcn{| g'ij g'qwr w."qpg'ij qwf "eqpukf gt"dqij "ij g'uk'g'qh'ij g'chhge'v'f'ctgc"cpf "ij g'
m'ecvqpp'qh'qwr'v'u'itqo "ij ki j y c{0'Hki wtg'509"ij qy u'ij g'f g'v'ku'qh'Hki wtg'508'u'tki j v'gpf 0'
Twpq'h'hmy u'q'w'qh'ij g'ij ki j y c{ "itqo "o cp{ "qwr'v'g'xgp'ij qwi j "ij g'hmy "r cv'ij "ku'p'q'v'm'pi 0'
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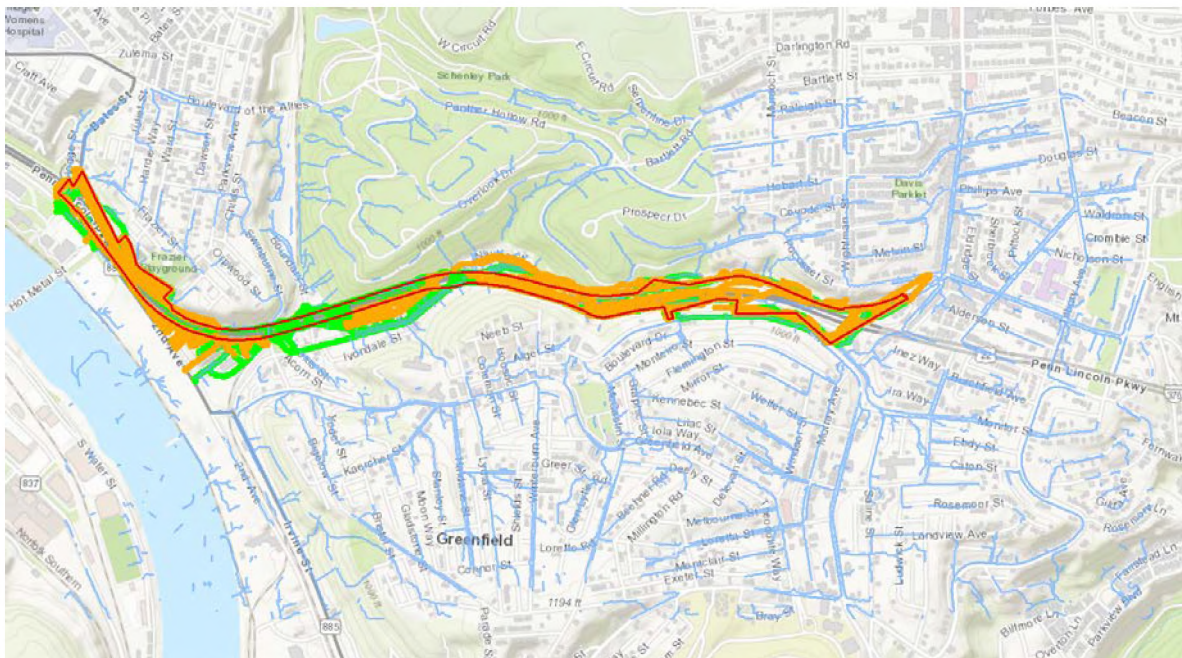


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50604" Ego r ctkpi "chgevgf"ctgcu'y kj "cpf"y kj qw'eqpukf gtlpi "dtkf i gu'cpf"ewtdu

Vj g'ej cpi gu'kp'RgppF QV"eqvtkdwlpi 'hny "ctgcu'chgt'kpenf lpi "dtkf i gu'cpf"ewtdu'lp'y g"
o qf grkpi "ctg'gzco kpgf'dgrny 0

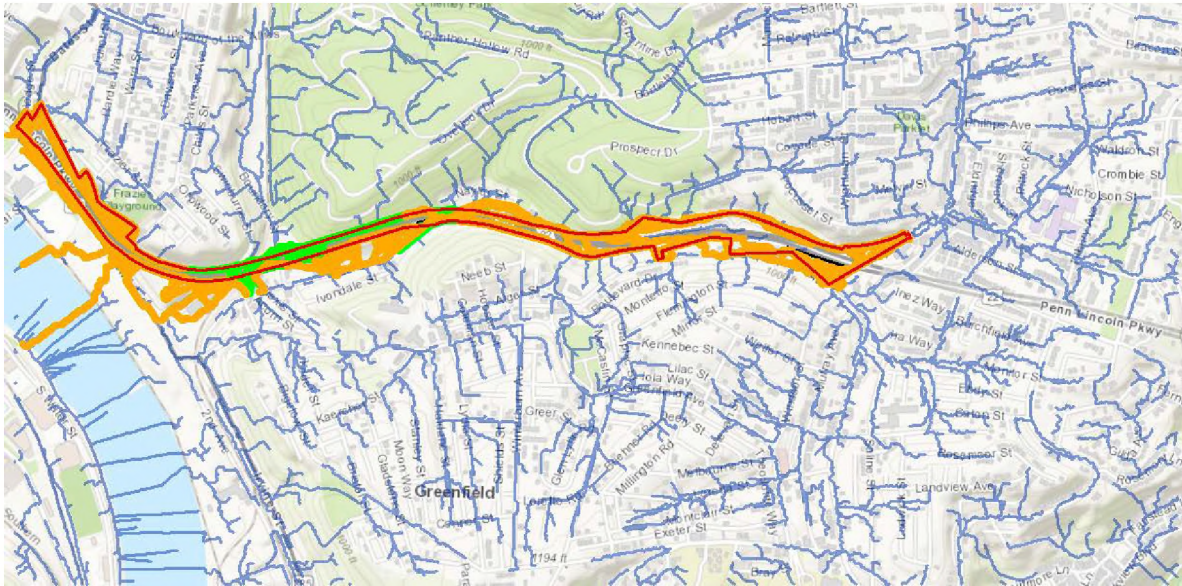
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rtqpqwpgef'hqt'y g'j ki j /tguqnwkp'f cvcug0Hqt'y g'hny /tguqnwkp'f cvcugv.'chgevgf"ctgcu"
qwukf g'y g'j ki j y c{ 'y kj "qt'y kj qw'eqpukf gtlpi "dtkf i g'ctg'uko krt0



Legend

- Highway
- Affected Area(w/ bridges & curbs)
- ArtificialStream_2500
- Affected Area(w/o bridges & curbs)

Hki wtg'50'Ctgc'chgevgf'd{ 'hny 'hqt 'RgppF QV'j ki j y c{ 'dcugf"qp'o qf khtg'j ki j /
tguqnwkp"SN4.'4'r vto 4+NKF CT'f cv'y kj "cpf"y kj qw'dtkf i g'cpf"ewtd'ghgevg'
eqpukf gtlg



Legend

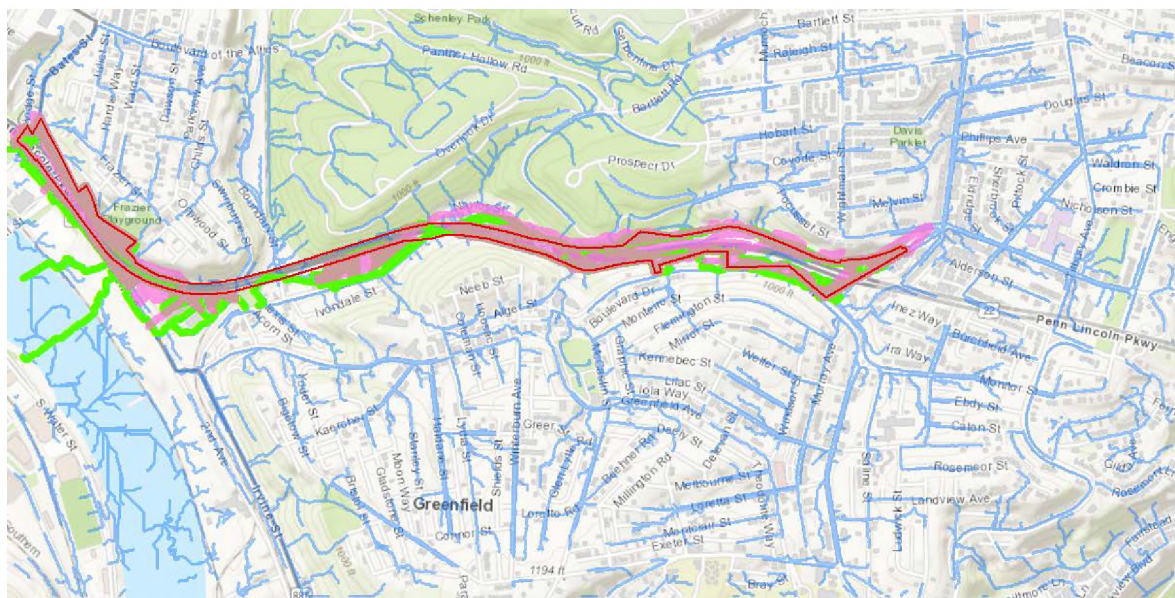
- Highway
- Affected Area(w/ bridges & curbs)
- ArtificialStream_2500
- Affected Area(w/o bridges & curbs)

Hli wtg'50 'Ctgc'chgevgf'd{ 'hny 'htqo 'RgppF QV'j ki j y c{ 'dcugf "qp'hny /tguqnwkp"
 *S N3.'3'r vlo 4+NkF CT'f cv'y kj "cpf 'y kj qw'dtkf i g'cpf "ewtd'ghgeveqpukf gtgf

5065" Ego r ctkpi "chgevgf "ctgcu'y kj "f khtgtpv'tguqnwkp" f cvcugv

Vj g'chgevgf "ctgcu'i gpgtcvgf 'htqo 'hny /tguqnwkp" f cvcugv'ctg'rti gt "y cp'y qug'i gpgtcvgf 'htqo "
 j ki j /tguqnwkp" f cvcugv'y kj "qt'y kj qw'eqpukf gtkpi "y g'r tgugpeg"qh'dtkf i g'cpf "ewtdu0'Vj g"
 f khtgtpgu'lp'ctgcu'ctg'mecvgf 'o clpn('cv'y guv'r ctv'qh'y g'uwf { "ctgc"pgct'y g'tkxgt0

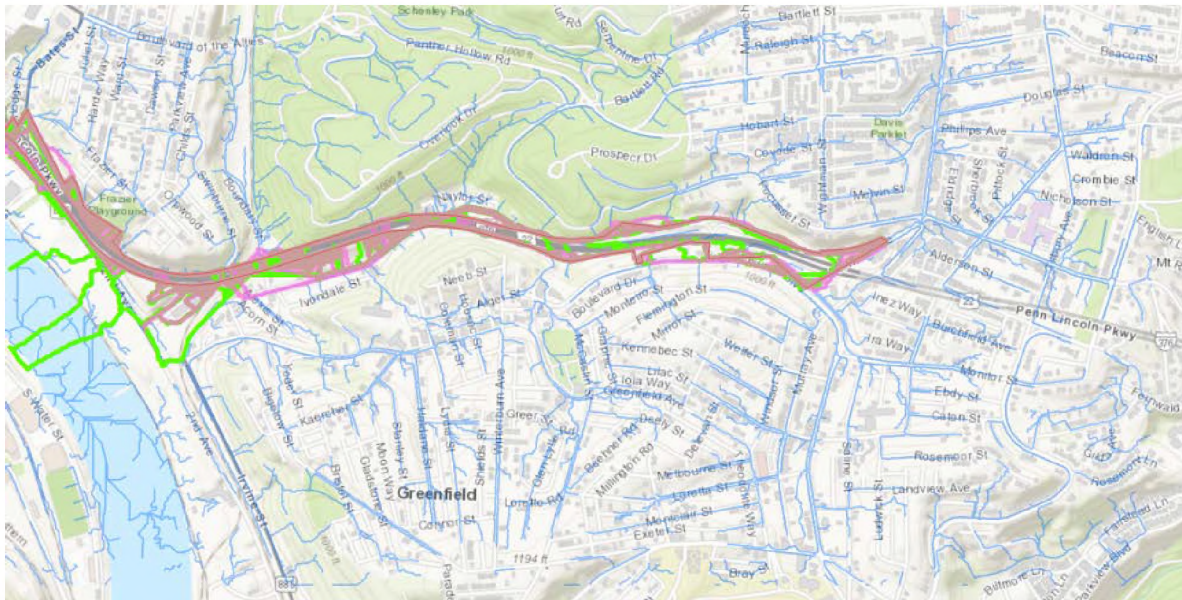
Uqto y cvgt 'Cpcn{ uku'cpf 'Y cvgt 'S wrkv{ 'Cuuguuo gpv'qh'Wdcp'Ctgcu
 Hkpcn'tgr qtv
 Zw'Nkpi "gv'crD



Legend

- Highway
- Affected Area Modified High Resolution Data(w/ bridges & curbs)
- Affected Area Low Resolution Data(w/ bridges & curbs)
- ArtificialStream_2500

Hki wtg'5Q 'Ctgc"chgevgf'd{ 'lmqy 'ltqo 'RgppF QV'j ki j y c{ "dcugf "qp"o qf kkgf "j ki j /
 tguqnwkpq"S N4."4"r vlo 4+"NkF CT"f cv'cpf 'mqy /tguqnwkpq"S N3."3"r vlo 4+"NkF CT"f cv'
 y kj "dtkf i g'cpf 'ewtd"ghgeveqpukf gtgf



Legend

- Highway
- Affected Area Modified High Resolution Data(w/o bridges & curbs)
- Affected Area Low Resolution Data(w/o bridges & curbs)
- ArtificialStream_2500

Hki wtg'502'Ctgc'chgevgf'd{ 'hny 'trqo 'RgppF QV'j ki j y c{ 'dcugf 'qp'o qf kkgf 'j ki j /
 tguqnwkp '*S N4. '4'r vlo 4+'NkF CT'f cwc'cpf 'hny /tguqnwkp '*S N3. '3'r vlo 4+'NkF CT'f cwc"
 y kj qw'dtkf i g'cpf 'ewtd'ghgeveqpukf gtgf

507" Uwo o ct{

Vj g'tguwu'qdcxkpgf "uj qy 'vj cv'vj g'o qf kkgf 'j ki j /tguqnwkp '*O ggkpi 'WUI U'S N4'ucpf ctf ."
 4'r vlo 4+'NkF CT'f cwc'cpf 'hny /tguqnwkp '*O ggkpi 'WUI U'S N3'ucpf ctf . "3'r vlo 4+'NkF CT"
 f cwc'eqwrf 'r tqf weg'f kkgtpv'hny 'r cvj u'cpf 'uxd/y cvgtuj gf u0Dw'vj g'vqcn'ceewo wv'vgf 'hny "
 o c{ 'pqv'dg'uki pkkcpw{ 'chgevgf 'd{ 'vj gug'vy q'f kkgtpv'ugv'qh'dcug'f cwc'hqt 'ecugu'uwf kgf 0

Kp'vgtu u'qh'vj g'f cwc'ceeguukdkw{ 'cpf 'r tqeguulpi 'eqo r ngzkv{ . 'hny '?' /tguqnwkp 'f cwc'ku'gcuget "
 vq'f qy pmcf 'cpf 'r tqeguulpi 'cp'j ki j /tguqnwkp 'f cwc'OJ qy gxgt. "vj g'ej qleg'qh'vj g'tguqnwkp "
 f gr gpf u'qp'vj g'ukg'cpf 'qdlge'xgu'qh'vj g'uwf { 0Kp'i gpgtcn'kh'vj g'vqcn'eqpvtdwkp 'ctgc'hqt "
 hny 'kpq'j ki j y c{ 'ku'pggf gf . 'hny '?' /tguqnwkp 'f cwc'y qwrf 'uw'hleg0Dw'kh'ceewtcvg'ej nrtkf g "
 eqpegpvcvqp" guko cvqp" ku'f guktgf . "j ki j '?' /tguqnwkp 'f cwc'ugv' ku' tgeqo o gpf gf 0' Vj ku' ku "
 dgecwug'ceewtcvg'ej nrtkf g'eqpegpvcvqp'guko cvqp'tgs vktgu'lphqto cvqp'hkng'vj g'eqpvtdwkp "
 qh'gcej 'uo cm'dculp'cpf 'vj gkt'qwwgv'mqecvapu'qp'vj g'j ki j y c{ 0Vj g'hny 'r cvj 'f kkgtpv'eqwrf "
 r qv'pvcml 'chgevg'vj g'ej nrtkf g'eqpegpvcvqp'guko cvqp'f gr gpf lpi 'qp'vj g'ctgcu'y j gtg'ucn'ku "
 crr rkgf 0

K'ku'ko r qtwcpv'q'pqvg'vj cv'tgi ctf ngui'qh'vj g'tguqnwkp'qh'vj g'f cvcugv'wugf . 'vj g'mqecvapu'y j gtg "
 ewtdu'cpf 'dtkf i gu'ctg'uj qwrf 'dg'r tqr gtn{ 'lpeqtr qtcvgf 0

Ctgc'chgevgf 'd{ 'hny 'htqo 'RgppF QV'j ki j y c{ 'tki j v'qh/y c{ 'qdvckpgf 'wulpi 'j ki j /tguqnwkp
NkF CT'f cvc'ku'uo cngt 'y cp'v'qdvckpgf 'htqo 'y g'hny /tguqnwkp 'NkF CT'f cvc0'Wulpi 'hny /
tguqnwkp 'NkF CT'f cvc. 'y g'chgevgf 'ctgc'wtpu'qww'uko krt'y kj 'qt'y kj qww'eqpukf gt'kpi 'dtkf i g'
cpf 'ewtdu'o qf kkecvkp'qp'hny 'r cvj 'kp'y g'ecugu'uwf kgf 0

Vj g'twpqhu'htqo 'j ki j y c{ 'kp'y g'uwf { 'ctgc'ctg'o ckn{ 'hny 'htqo 'y g'dqwpf ct{ 'qh'dtkf i gu'
cpf 'ewtdu0Twpqhu'y kn'o qxg'cetquu'y g'ewtdu'kp'q'uwttqwpf kpi 'pgki j dqtj qqf u'k'ewtdu'f q'
pqv'eqxgt 'y g'gpvtg'r ctv'qh'dtkf i gu0'ewtdu'uj qwf 'dg'cp'ko r qtvcv'r ctv'qh'tqcf y c{ 'I KU'
o qf gkpi 0Vj g'uwf { 'ergctn{ 'uj qy u'y cv'y g'o qf gkpi 'r tguvgvf 'ku'ecr cdr'qh'ecr wtkpi 'j qy '
ewtdu'hqteg'hny 'v'q'o qxg'cmipi 'y g'tqcf y c{ u'kp'v'y g'wpf gti tqwpf 'r k'g'pgwy qtn'y tqwi j 'y g'
kpgw'qp'y g'j ki j y c{ 0

Y j gtgxgt 'c'tkxgt 'kpgtugew'c'j ki j y c{ . 'twpqhu'htqo 'y g'j ki j y c{ 'o c{ 'hny 'f kgevn{ 'kp'v'y g'
tkxgt 'y tqwi j 'r k'g'kpgv'qp'y g'j ki j y c{ '*g0 0P kpg'O krg'Twp'cpf 'K598'cetquu'ugevqp-0'
J { f tqmi kecn'o qf gkpi 'eqwf 'r tqxkf g'c'etk'ecn'r ctv'qh'cpcn{uku'qp'j qy 'cpf 'v'y j cv'gzv'p'
ucn'cr r nkgf 'qp'j ki j y c{ 'y qwf 'chgevgf 'y g'ej mtkf g'eqpegpvcv'kp'qh'y g'tkxgt 0Vj g'r tguvgvf '
r tqegf wtg'cpf 'r cvj y c{ 'o qf gkpi 'htco gy qtn'ecp'eqo r ngo gpv'j { f tqmi kecn'o qf gkpi 'cpf '
r tqxkf g'c'eqo r tgi gpuk'g'r kewtg'qh'y j gtg'y g'y cvgt 'hny u'v'htqo 'y g'j ki j y c{ u'cpf . 'hqt'y cv'
o cvgt. 'y g'f gukpcv'kp'qh'y g'ucnu0Dw'y kj qw'eqo r tgi gpuk'g'cpf 'f gvckgf 'j { f tqmi kecn'
o qf gkpi . 'y g'uwf { 'ecppqv's wcpvkh{ 'j qy 'ucn'ku'tcpur qtvgf 'd{ 'hny 0

K'ku'y qtvj 'o gpv'kpi 'y cv'cmi'y g'eqpenwukpu'r tguvgvf 'j gtg'ctg'qpn{ 'hqt'y g'ecugu'
kpxguk'cvgt 'kp'y ku'r tqlgex0O qtg'uwf { l'kpxguk'cvkp'ku'pgeguuct{ 'v'f tcy 'o qtg'i gpgctn'
eqpenwukpu0

60' Utgco 'Y cvgt 'Uco r npi 'cpf 'Ncdqtcvqt { 'Vgukpi 'qp'Y cvgt 'S wrkv{ " Ko r ceu'Ecwugf 'd{ 'J ki j y c{ 'Ucn'Qrgtcvqp

Vj ku'ugevqp'eqpukwgu'y g'f gkxgtcdrg'hqt 'Vcun'50 Utgco 'y cvgt 'uco r npi 'cpf 'ncdqtcvqt { "
vgukpi 'qp'y cvgt 's wrkv{ 'ko r ceu'ecwugf 'd{ 'j ki j y c{ 'ucn'qr gtcvqp0 qh'y g'Rkw'Y Q'%236'
r tqlgex0Uqto y cvgt 'Cpcn{uku'cpf 'Y cvgt 'S wrkv{ 'Cuuguuo gpv'qh'Wdcp' Ctgc0'Vy q'uwf { "
ukgu'kp'y g'Ek{ 'qh'Rkwudwti j . 'RC.'y gtg'ugrgevgf 'hqt'Vcun'5'qh'y ku'r tqlgex0Vj ku'ugevqp'
f guetkdu'y g'y qtn'ectkfg 'qww'hqt'Vcun'50'Vj ku'f qewo gpv'f gvcku'y g'wtdcp'utgco 'y cvgt '
s wrkv{ 'o qp'kqtkpi . 'uco r npi 'cevxkv{ . 'ncdqtcvqt { 'cpcn{ v'ecn'o gvj qf . 'cpf 'tguwn'cpcn{uku0

Y g'hqwpf 'y cv'ucn'qr gtcvqp'qp'tqcf y c{ u'ecwug'c'tkug'kp'utgco 'ej mtkf g'eqpegpvcv'kp'kp'
y g'y kpgt 'ko g0'Vj g'Etktgk'O czko wo 'Eqpegpvcv'kp'*EOE+'tgi ctf kpi 'ej mtkf g'cewg'
vzlek{ 'j cu'dggp'gzeggf gf 'f wtkpi 'y kpgt'ucn'kpi 'r gtkf 'hqt'dqy 'ukgu'y g'uwf kgf 0J qy gxgt. "
y g'cuq'hqwpf 'y cv'y g'hny gt'Etktgk'Eqp'p'w'w'Eqpegpvcv'kp'*EEE+'tgi ctf kpi 'ej mtkf g'
ej tqple'vzlek{ 'j cu'dggp'gzeggf gf 'kp'pqp/y kpgt'dcugr'kp'hny 'r gtkf 'gxgp'y kj qww'tqcf 'ucn'
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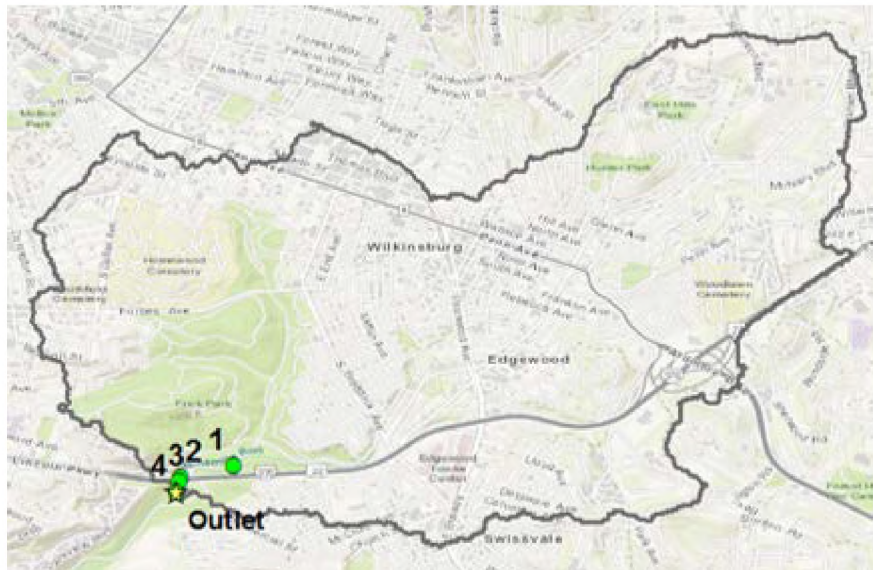
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ngxgn'dcugf 'qp'y g'ko kgf 'pwo dgt'qh'y cvgt 'uco r ngu'cdqww'522'uco r ngu'y g'j cxg'eqmgevgf 0'
Utgco 'ej mtkf g'r gcnlf tqr u'f qy p'hcuv'chgt'r tgekr kcvkp'cv'y g'y q'uwf { 'ukgu0

608" Uco r nkpi

6088" Uco r nkpi 'ukg'cpf 'mcevqkp

Vy q'utgco 'y cvgt 'uco r nkpi 'ukgu'y gtg'ej qugp'kp'yj g'Ekv('qh'Rkwudwti j 'tgi kqp0Vj g'P kpg'O kg"
Twp*'P O T+'ukg'ku'cp'wtdep'y cvgtuj gf 'cpf 'c'f grkpgcvkp'qh'P O T'y cvgtuj gf 'ku'r tgugpvf 'kp"
Hki wtg'6080Cv'y ku'ukg.'c'utgco 'tpu'wpf gtpgc'y 'c'RgppF QV'j ki j y c('dtkf i g'cpf 'y g'dtkf i g'au"
ftckpci g'u(ugo 'f kxgtu'twpqhh'tqo 'y j g'dtkf i g'utwheg'f k'gevn('q'yj g'utgco '*ugg'Hki wtg'60440

Hqwt'uco r nkpi 'mcevqkp'*Hki wtg'605+'ctg'ugrgevf 'q'uwwf { 'r qv'p'kn'ko r cev'qh'f g'lekp i 'ucn'
crr rkgf 'q' y j g'dtkf i g'utwheg'qp' y j g'utgco 'y cvgt's wrkv('qh'P O T0Co qpi 'y j go . "y q"
uco r nkpi 'mcevqkp' *%3" cpf " %4+" mcevq" qp' y j g' wr utgco " qh' y j g' dtkf i g' hqt" o qpkqtkpi "
dcemi tqwpf 'utgco 'y cvgt's wrkv(0' Vj g' qy j gt" y q' mcevqkp' *%5" cpf " %6+" mcevq" qp' y j g"
f qy putgco " qh' y j g' dtkf i g' cmqy kpi " hqt" gzco kpcvqp" qh' ej cpi gu" kp' utgco " ej rtkf g"
eqpegptcvkp'f wg'q'twpqhh'y cv'ecttkgf 'ucn'htqo 'y j g'dtkf i g0



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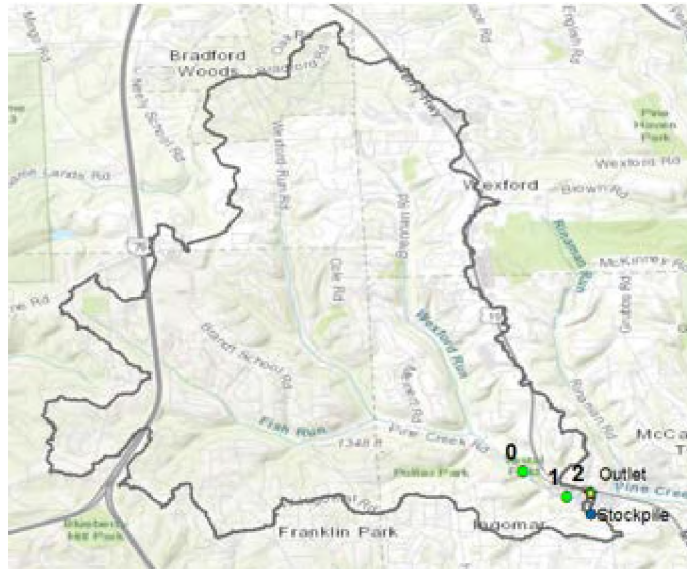


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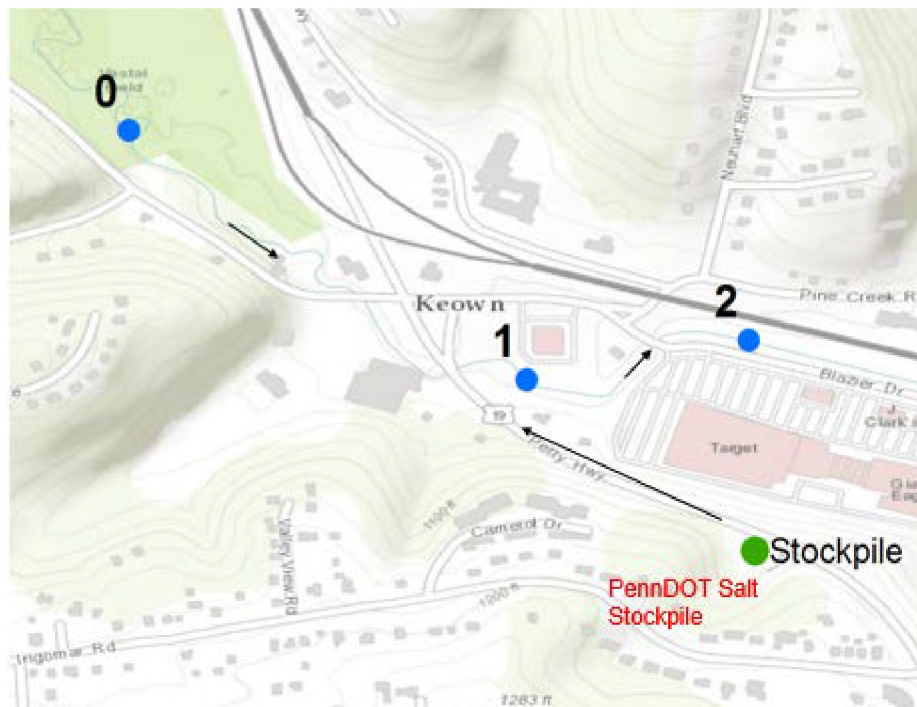


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f grkpgcvkp"qh'RE"y cvgtuj gf "ku'r tgugpvf"lp"Hki wtg'606'Vj ku'ukg"ku'ej qugp"vq"gzco kpg"vj g"
ko rcev"qh"c"RgppF QV"ucn' uqemr kpg"pgct"vj g"utgco "ugg"Hki wtg'607-0' Vj tgg"uco r rpi "
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Hki wtg'606'Rkpg'Etggnly cvgtuj gf 'f grkpgcvkp



Hki wtg'607'RE"uco r rpi "mcevkqpu

6004" Uco r nkpi 'r tqegf wtg

Cm'uco r ngu'ctg'eqmgevgt "cpf "uqgtgf "lp"r rcuve"dqwgu"y j lej "ctg"vj qtqwi j n{ "engcpgf "cpf "tkpugf "y kj "f gkqpk gf "y cvgt "dghgtg"gej "uco r nkpi 0

F wtkpi "upqy kpi "r gtkqf . "uco r nkpi "ku'ecttkgf "qww'hmny kpi "qt "f wtkpi "r tgekr kcvkqp"gxgpv'y j gp "kpetgcugf "mqcf "htqo "f g/lekpi "cevkxkv{ "ku"gzr gevgt 0Hqt "eqo r wtkpi "ej mtkf g"etkgtk"o czko wo "eqpegpvcvkqp"EO E+"ucpf ctf . "5"uco r ngu'ctg'vcngp"eqpugewkxgn{ "cv'cp"lpvgtxcn'qh'cdqww'42" o kpwgu"qp"fc{ u'y kj "r tgf kevgt "utgco "ej mtkf g"eqpegpvcvkqp"r gcn0Uvej "v{ r g'qh'uco r nkpi "cevkxkvku'ecttkgf "qww'qp"fcvgu'o ctngf "d{ 'tgf "ej genlo ctmi"lp"Vcdngu'60B"cpf "6040

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Kp"ecugu'y j gp"ko o gfkcvg"rdqtcvqt{ "cpcn{ uku'qh'eqmgevgt "uco r ngu'ku'pqv'hgcukdng. "uco r ngu'ctg" hngtgf "cpf "uqgtgf "lp"fcnmicpf "eqqn'r megu'hqt "wr "vq"4: "fc{ u0

6005" Uco r nkpi "uej gf wrg

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	5 B	5 B9	5 B:	5 B;	5 B2	5 B3	5 B4	5 B5
P kpg'O krg'Twp	ç	ç	ç	ç	ç	ç	ç	ç
Rkpg'Etggm			ç	ç	ç	ç	ç	ç
Rtgekr kcvkqp"v{ r g	R	R	R	R	R(U	U	U	
	5 B6	5 B7	5 B8	5 B9	5 B:	5 B;	5 B2	
P kpg'O krg'Twp	ç	ç	ç	ç	ç	ç	ç	
Rkpg'Etggm	ç	ç	ç	ç	ç	ç		
Rtgekr kcvkqp"v{ r g		R(U	U	R(U	R(U		Vqvcn	



Vcdrg'604"Uco r rkipi 'uej gf wrq'qh'423: 'y kpgt0F cvgu'qp'y j lej 'uco r ngu'y gtg'cngp'ctg"
o ctngf 'd{ "öç ö0Rtgekr kcvkqp'v{ r g'ku'öRö'hqt'tclp.'cpf 'öUö'hqt'upqy . 'tgr gevkg'0'
öR(Uö'kpf kcvg'dqy 'tclp'cpf 'upqy 'ctg'r tguqp'0Tgf 'ej gem'o ctmi'f cvgu'y kj 'kpetgcugf "
uco r rkipi 'htgs wgep{ '*5'uco r ngu'cngp'r gt'j qvt+ht'dgwt'f cve'tgr tguqp'cvkqp'qh'3/j qvt"
cxgtci g'y cvgt's wrkv{0

	3342	3442	3444	3445	3446	3447	344;	3445	3442	3443
P kpg'O kg'Twp	ç		ç	ç	ç	ç	ç	ç	ç	ç
Rkpg'Etggm		ç							ç	ç
Rtgekr kcvkqp'v{ r g			U		U		R	R(U	U	U

	343	344	34:	34;	342	343	344	345	346	347
P kpg'O kg'Twp	ç	ç	ç	ç	ç	ç	ç	ç	ç	ç
Rkpg'Etggm	ç	ç			ç	ç	ç	ç	ç	ç
Rtgekr kcvkqp'v{ r g			R(U			R	U			U

	348	342	343	344	345	343	448	445
P kpg'O kg'Twp		ç	ç	ç	ç	ç	ç	ç
Rkpg'Etggm	ç							
Rtgekr kcvkqp'v{ r g	U		U	U	U	U	U	

604" Ncdqtcvqt { "cpcn{ vkecn'o gyj qf "cpf 'f cve'r tqeguukpi

604B" Ej mtkf g'cpf 'uwhevg

Ej mtkf g" cpf " Uwhcvg" eqpegpvcvkqp" ctg" f gvgto kpgf" dcugf" qp" GRC" o gyj qf " 52202"
f gvgto kpcvkqp'qh'kqti cple"cpkqpu'd{ "kq"ej tqo cvqi tcr j {0

Rtkqt"vq"uco r ng"cpn{ uku."uco r ngu'ctg'hkngt'gf'y kj "2067/o ketqp'hkngt'o go dtcpg0'ku"uco r ngu"
ctg'tghki gtcvgf "hqt'npqi /vgt "uqtcig."uco r ngu'ctg'cngp"qww'qh'tghki gtcvkqp'cpf "ngr v'wpf gt"
tqqo "vgo r gtcwtg'vku"uco r ng"vgo r gtcwtg'tkugu'dcem'vq'y kj kp'pqto cn'tcpi g0

Hkngt'gf "uco r ngu'ctg'f knwgf'y kj "f gkqpk'gf'y cvgt'vq'o gg'v'y g'y qtnkpi 'tcpi g'qh'yj g'cpcn{ vkecn'
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Hkngt'gf "cpf "f knwgf "uco r ngu'ctg'yj gp'mcf gf "vq"c"fkpgz "KEU/3322"kp"ej tqo cvqi tcr j { "hqt"
ej mtkf g'cpf "uwhevg"cpn{ uku0Ej mtkf g'cpf "uwhevg"eqpegpvcvkqp"ku'f gvgto kpgf "d{ "wukpi "c"ugv"
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6044" Vqcn'j ctf pguu



F gvgto kpcvkp"qh'qvcrj' ctf pguu'hqmgy u'GRC'o gy qf "35204"*Vktko gvtke.'GF VC+0Cm'uco r ngu'
 ctg'hkngtgf "cpf 'tguqgtgf "vq'pqto cn'go r gtcwvtg'r tlqt "vq'yj g'vguv0

6045" S wrkv{ 'eqpvtqn

S wrkv{ "eqpvtqn'tgi ctf kpi "ej ntkf g"cpf "uwhtcvg"cpn{ uku"lpxqrxgu"vj g"cpn{ uku"qh'tgr rkecvg"
 uco r rg."tgcj gpv'drcpm"rdqtcvqt{ "hqtvkkgf "drcpm"*NHD+"cpf "rdqtcvqt{ "hqtvkkgf "uco r rg"
 o cvtkz"*NHO +0Hqt"geej "dvej "qh'kqp"ej tqo cvqi tcr j { "vguv."yj g'r gtegpvt'geqxtg{ "qh'rdqtcvqt{ "
 hqtvkkgf "drcpm'cpf "rdqtcvqt{ "hqtvkkgf "uco r rg'o cvtkz "ku'ecrewrvgf 0

C"NHD"qt"NHO "uco r rg"ku'qdvclpgf "d{ "cf f kpi "c"npqy p"co qwpv'qh'ej ntkf g"qt "uwhtcvg"vq"cp"
 crks wqv'qh'tgi gpv'y cvgt "qt"utgco "uco r rg"tgur gevkggn{ ."cpf "NHD"qt"NHO "uco r rg"ku'cpn{ | gf "
 yj g'uco g'y c{ "cu'c'pqto cn'uco r rg0Vj g'vguv'tguwn'qh'NHD"cpf "NHO "uco r rg"ku'wugf "vq'eqo r wwg"
 r gtegpvt'geqxtg{ 0

$$\frac{C}{\dots} \text{ " ? " } \text{ " } \text{ " 322 " }$$

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$$\frac{C_s - C}{\dots} \text{ " } \text{ " 322 }$$

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Vj g'r gtegpvt'geqxtg{ "qh'NHD"cpf "NHO "uj qwf "hcm'y kj kp'yj g'eqpvtqn'rko k'qh'; 2/332' "cpf "
 : 7' /337' ."tgur gevkggn{ ."vq"uwi i guv'cp"ceewtvcg"uco r rg'o gcuwtgo gpv'0 Kf'yj g'ecrewrvgf "
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 qt"qvj gt"gzr gtlo gpv'r ctco gvgtu'ctg"cf lwvgf "wvki'yj g'tgs vktgo gpv'ctg"o gv0Hqt'yj g'gpvktg"
 rdqtcvqt{ "cpn{ uku."yj g'cxgtci g"NHO "ku"; 60' "cpf "yj g'o czko wo "cpf "o kpkwo "NHO "ctg"
 333' "cpf '9; 08' ."tgur gevkggn{ 0

NHD'uco r rg'cpf 'tgi gpv'drcpm'uco r rg'ctg'cpn{ | gf "hqt"geej "dvej "qh'gzr gtlo gpv'vq'o cng'uwg"
 KE"kpwtwo gpv'ku'lp"i qqf "eqpf kkp0Hqt"geej "dvej "qh'gzr gtlo gpv."4"NHO "uco r ngu"ctg"
 r tgr ctgf "wulpi "uco r ngu'y kj "j ki j guv'hgy guv'ej ntkf g'eqpegpvtcvkqp"vq'gxcnwcg"o gcuwtgo gpv'
 ceewtce{ 0

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Vj g'etkgtk' o czko wo "eqpegpvcvkp" *EO E+ "hqt" gxcnvcvkpi "ej ntkf g" cewg" vqzlek{ "ku" i kxgp"
cu<

ý +"? 56; " " 204279; 9" "

" " "

EO E "ku" hqt "cewg" vqzlek{ "f wtkpi "ej ntkf g" r gcmleqpegpvcvkp "r gtkqf 0Uvej "r gcmleqpegpvcvkp"
r gtkqf "wuwcm{ "hmqy u'upqy "gxgpv'0Vq "ceewtcvgn{ "eqo r wg" 3/j qwt "cxgtci g" xcnwg" hqt "ej ntkf g."
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kpvgtxcn'chgt "gcej "upqy "gxgpv'f wtkpi "y g" uwf { "r gtkqf 0Hqt "qvj gt "r gtkqf. "qpn{ "3" uco r ng" ku"
cngrp "r gt" uco r nkpi "nqecvkp" cpf "EO E" ku" guko cvgf "wukpi "c" ukpi ng" xcnwg0

Vj g'etkgtk' eqpvkpwqu" eqpegpvcvkp "EEE+ "hqt" gxcnvcvkpi "ej ntkf g" ej tqple "vqzlek{ "ku" i kxgp"
cu<

ý +"? 335" " 204279; 9" "

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f ckn{ "utgco "y cvgt "uco r ng" hmqy kpi "upqy "gxgpv'f wtkpi "y g" uwf { "r gtkqf 0Hqt "qvj gt "r gtkqf "
y j gp" ukpi ng" ku" rvcgf "uco r ng" ku" cngrp. "EEE" ku" guko cvgf "wukpi "ukpi ng" f c{ "xcnwg0

605" T guwn'cpf "cpcn{ uku

Vj ku" ugevkv "f kuewuuf "y cvgt "s wrkv{ "f cvc" htqo "eqngevgf "uco r ngu" 0T guwnu" ctg" ugr ctcvgf "kvq"
y tgg" r ctu< "y g" dcugnpg" r gtkqf. "y g" y kvgt "qh" 4239. "cpf "y g" y kvgt "qh" 423: 0Vj g" dcugnpg"
r gtkqf "uj qy u'y g" qtki kpcn' ucvg" qh' y g" utgco "y kj qw' y g" eqpvtkdwkq "qh' f g/lekpi "ucn0F cvc"
htqo "y kvgtu" qh' 4239" cpf "423: " ctg" f kuewuuf "ugr ctcvgn{ "dgecwug" qh' y gk "f kpkp' y gcvj gt"
r cwgtpu" cpf "y g" tguwnkpi "f khtgtgpegu" kp" utgco "j { f tqm i kcn' eqpf kkvpu' Hwt vj gto qtg."
f tclpci g' hmqy kpi "ucn" qr gtcvkp' htqo "RgppF QVau" dtkf i g" enq "uj qy u'uki phtkcpv{ "f khtgtgpv"
ej ctcevgt kuleu" hqt "y g" y q" y kvgtu" kpxqrxgf 0'k "y g" y kvgt "qh" 4239. "r wugu" qh' j ki j /xqno g"
f kiej cti g" ecp "dg" qdugt xgf "r qwtkpi "qw" qh' "RgppF QV" r kr gu" hmqy kpi "r tgekr kcvkq" gxgpv=
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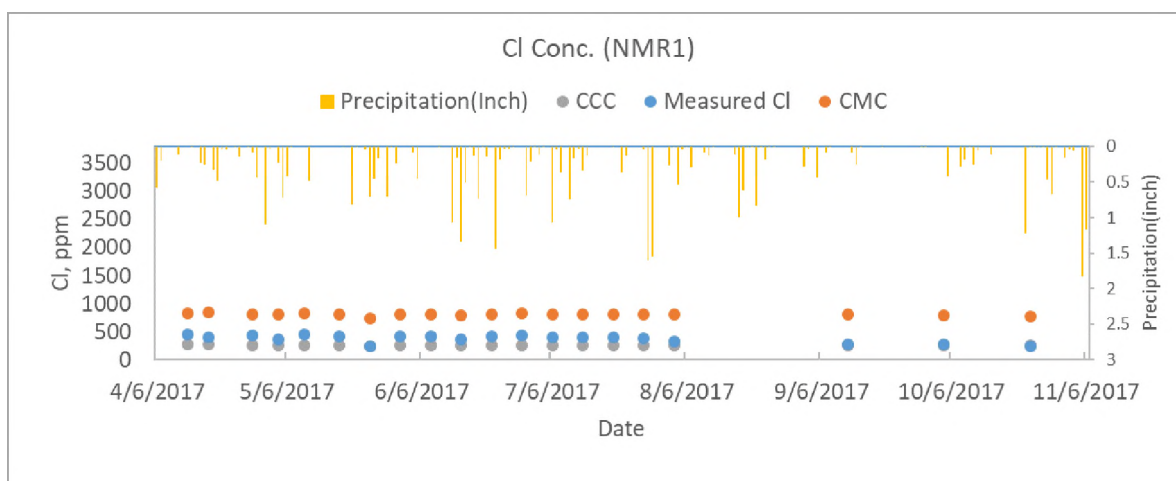
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P qxgo dgt "42390 Utgco "y cvgt "s wrkv{ "qxgt "y ku" r gtkqf "ku" eqpukf gtgf "vq" dg' htgg' htqo "ko r cev"
qh' f g/lekpi "ucn." cpf "y gthgtg" uco r ngu" htqo "y ku" r gtkqf "tghngev" y g" opcwtrcb" qt "odcugnpgö"
ucvq' qh' y g' utgco 0Vj gtg' ku" qpn{ "r ctvknf cvc" cxckrdrg' hqt "P O T" uco r nkpi "nqecvkp" 6" dgecwug"
f gpug' xgi gcvkq" eqo r ngvgn{ "dmengf "y g" r cvj. "y wu" k' tgs vkt gu" ecwkvq" y j gp" eqo r ctkpi "
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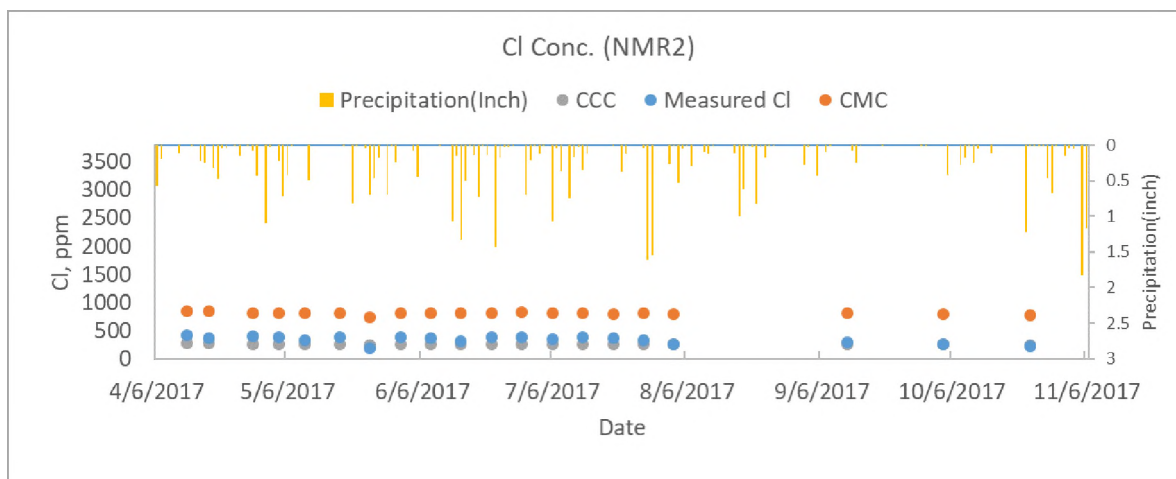
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Uco r npi 'Nqecvqp	3	4	5	6
En'cxgtci g'eqpe0'rro	57:	54:	553	489
En'lo cz'eqpe0'rro	648	5; 5	62;	5; 9
En'lo kp'eqpe0'rro	454	3; 5	3; 2	3; 3
Cxgtci g'EO E.'rro	: 23	: 24	: 23	994
Cxgtci g'EEE.'rro	47;	482	47;	472

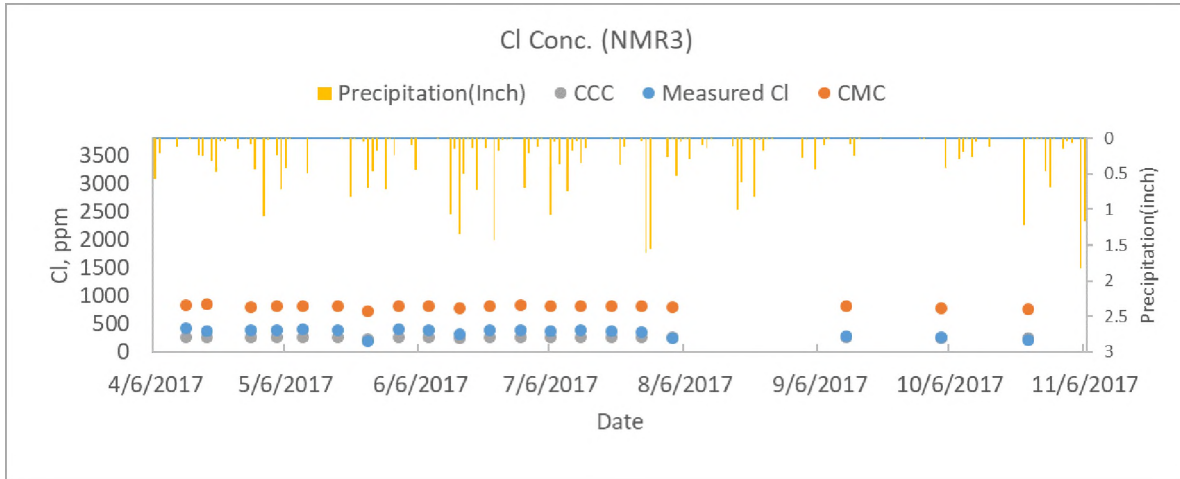
Kp'i gpgtcn'P O T'utgco 'ej mtkf g'ngxgn'tgo clpu'cdqxc'qt'enqug'v'EEE'ucpf ctf.'dw'dgmy "EO E'ucpf ctf'ht'cm'uco r npi 'mecvqp'Qxgt'yj g'gpvtg'dcugnp'g'r gtlkf.'yj gtg'ku'c'umy "vtgpf'qh'f tqr r lpi 'ej mtkf g'eqpepvtcvqp'Utgco 'ej mtkf g'ngxgn'cv'f'htgtpv'uco r npi 'mecvqp'ctg'my 'y kj 'pgi rki kdr'f'htgpegu.'y j lej 'ku'eqpukv'v'y kj 'yj g'icev'y cv'pq'ucm' y cvgt'gpvtu'yj g'utgco 'htqo 'yj g'RgppF QV'dtkf i g'ht'yj ku'r gtlkf 0



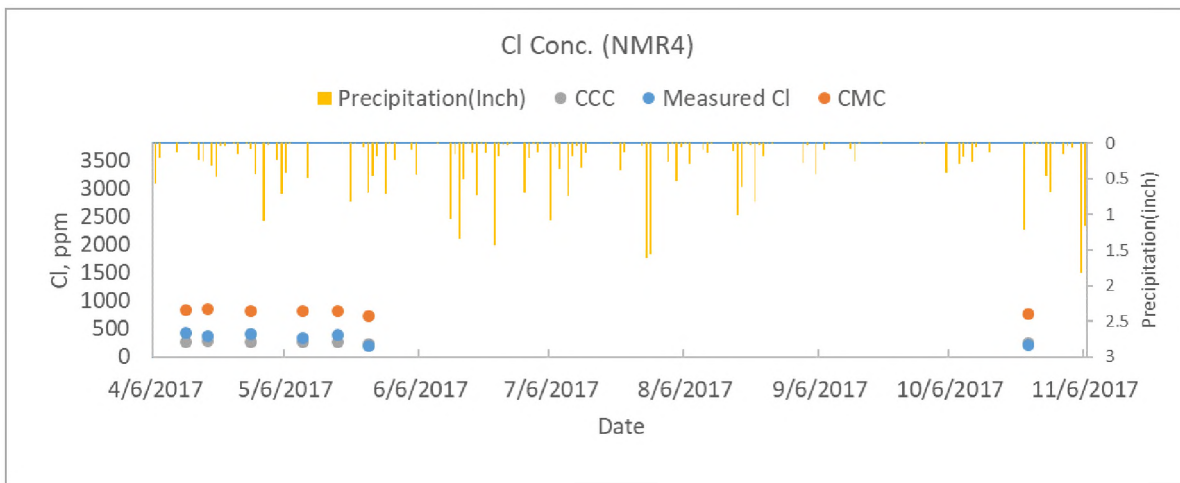
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Hki wtg'69'Tguw'ht'P O T'uco r npi 'mecvqp'4'kp'dcugnp'g'r gtlkf



Hki wtg'60 'Tguwn'hqt'P O T'uco r nkpi 'nqecvkp'5'kp'dcugrkpg'r gtlkf

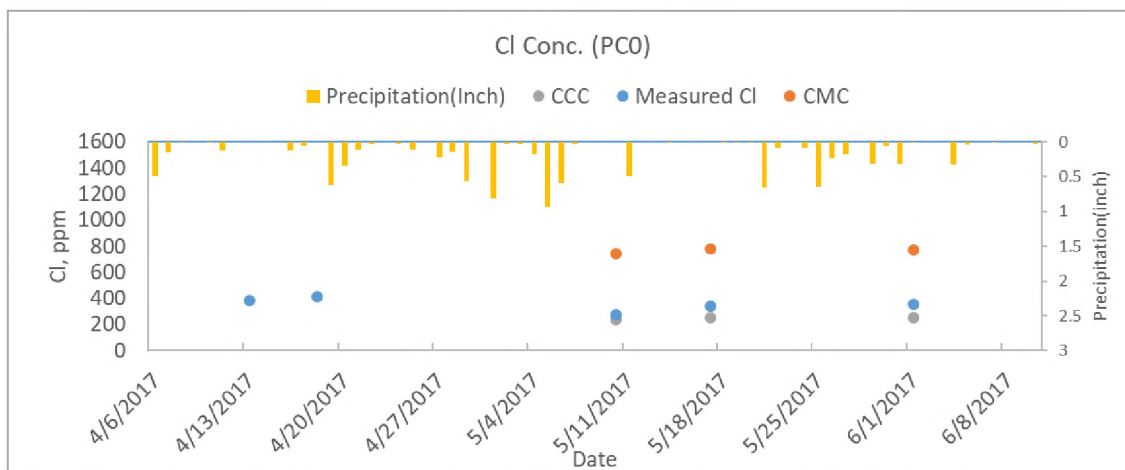


Hki wtg'60 'Tguwn'hqt'P O T'uco r nkpi 'nqecvkp'6'kp'dcugrkpg'r gtlkf

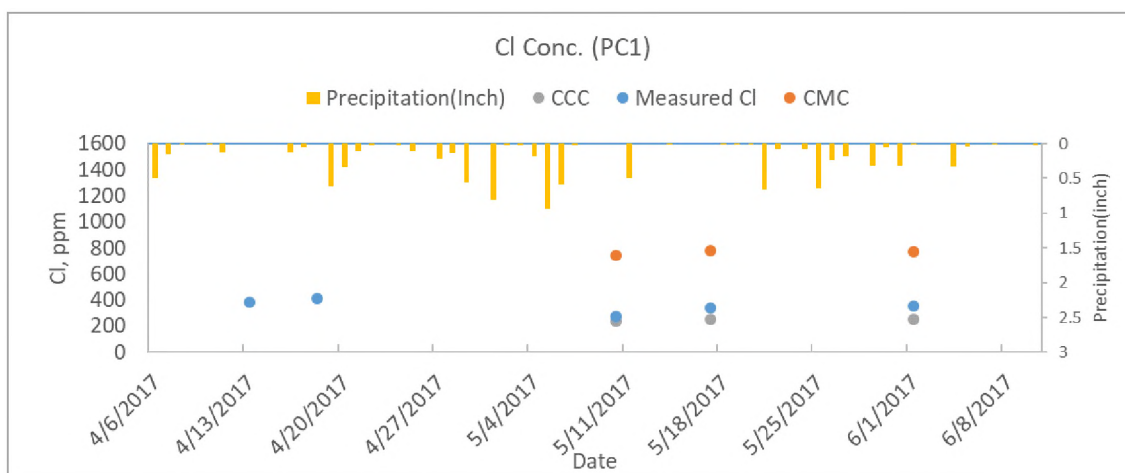
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 hqt'uco r ngu'eqmgev'f'htqo "RE"ukg'f wtkpi "dcugrkpg'r gtlkf "htqo "Cr tki'4239'vq"Lypg'42390'
 Tguwnu'uj qy "uko krt'r cvgtpu"vq'y j cv'htqo "y j g'P O T'ukg"kp'y j lej "y j g'dcugrkpg'ej nrtkf g"
 eqpegpvcvkp'ngun'ki j vq'cdqyg'qt'emugu'vq'EEE'ucpf ctf "dw'dgry 'EO E'ucpf ctf 0'Utgo "
 ej nrtkf g'rgxgu'cv'f'htgtpv'uco r nkpi "nqecvkpu'ctg'uko krt'gzj kdkpi "pgi ki kdr'f'htgtpgu."
 y j lej "ku'ci ckp'eqpukgpy'kj 'y j g'ncev'y cv'f g'lekpi "ucn'ku'pqv'cf o kpkugt'f'ht'y j ku'r gtlkf 0

Vcdrg'606'Uwo o ct{ "qh'f'cve'eqmgev'f'ht'y j g'RE'ukg'*dcugrkpg'r gtlkf +

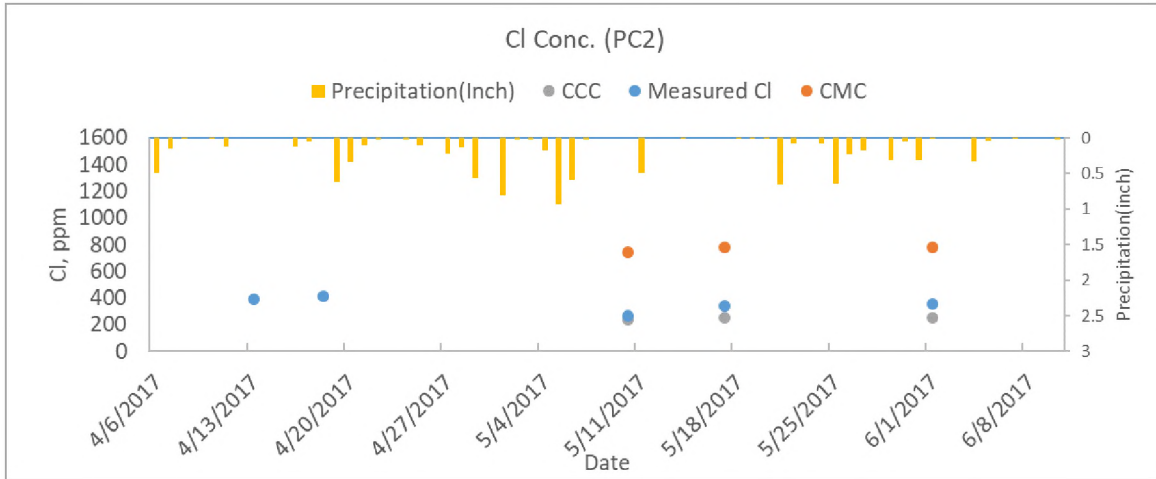
Uco r nkpi 'Nqecvkp	2	3	4
En'cxgtci g'eqpe0'r r o	565	575	575
En'o cz'eqpe0'Rr o	5; 2	636	634
En'o kp'eqpe0'Rr o	488	495	492
Cxgtci g'EO E.'r r o	987	988	989
Cxgtci g'EEE.'r r o	46:	46:	46:



Hk wtg'602'Tguwn'hqt'RE'uco r npi 'mpev'qp'2'lp'dcug'lp'g'r gtlqf



Hk wtg'603'Tguwn'hqt'RE'uco r npi 'mpev'qp'3'lp'dcug'lp'g'r gtlqf



Hki wtg'604'T guwn'hqt'RE'uco r nkpi 'nqecvkqp'4'lp'dcugrkpg'r gtlqf

Kp'uwo o ct{ ".utgco "uco r ngu"ltqo "dqy "ukgu"uj qy "y cv'dcugrkpg"ej ntkf g"eqpegpvcvkqp"rkgu"
 urki j v("cdqyg"qt"enug"vq"EEE"ucpf ctf "dw'dgmry "EO E"ucpf ctf 0Vj ku'wv i guv'y cv'dgukf gu"
 f g/lekpi "tqcf "ucn."qy gt "hcevqtu"chgevkpi "utgco "ej ntkf g"eqpegpvcvkqp"gzkuv."cpf "y gug"
 wnpqy p "hcevqtu"ecwug"utgco "ej ntkf g"rgxgn'vq"gzeggf "EEE"ucpf ctf u0Eqpugs wgpv(".rcvgt"
 kp"qwt "cpcn(uku'qh'y kvgt "r gtlqf "uco r ngu."cvgpvkqp"y km'dg"nqewugf "qp"eqo r ctkpi "utgco "
 ej ntkf g"rgxgn'vq"EO E"ucpf ctf ".y j lej "ku'dgwgt'tgrvgtf "vq"y g'ko r cev'qh'f g/lekpi "tqcf "ucn0

6004" P kpg'O krg'Twp<y kvgt "qh'4239

Hki wtgu"605"o"608"uj qy "y g"ej ntkf g"eqpegpvcvkqp"cpf "y g"ecrwrvgtf "EEE"cpf "EO E"
 ucpf ctf u" hqt "uco r ngu"eqmgvgf "kp"PO T"f wtkpi "y g"y kvgt "qh'4239"ltqo "5184239"vq"
 514242390

Vcdng'60'Uwo o ct{ "qh'f cvc"eqmgvgf "hqt"PO T"ukg"y kvgt."4239+

Uco r nkpi "Nqecvkqp	3	4	5	6
En'cxgtci g"eqpe0rro	848	6; 3	739	752
En'o cz"eqpe0rro	37; 7	: 48	; 94	3244
En'o kp"eqpe0rro	4: 8	437	48;	496
Cxgtci g"EO E."rro	: 29	: 2:	9; ;	: 2:
Cxgtci g"EEE."rro	483	484	47;	484

Uco r ngu"eqmgvgf "ltqo "PO T"uco r nkpi "nqecvkqp"3"ctg"wugf "vq"kf gpvkh("wr utgco "ej ntkf g"
 rgxgn0Ej ntkf g"eqpegpvcvkqp"f khtgpggu"dgvy ggp"nqecvkqp"4"cpf "5."qt"dgvy ggp"nqecvkqp"4"
 cpf "6"ctg"wugf "vq"kf gpvkh("ko r cev'qh'ucn"eqo kpi "ltqo "y g"RgppF QV"dtkf i g0Uco r nkpi "nqecvkqp"
 5"ku'tki j v'dgj kpf "y g"dtkf i g"lp"y g"fy putgco "ukf g."cpf "uco r nkpi "nqecvkqp"6"ku"322"o gygtu"
 hwtj gt "fy putgco "ltqo "y g"dtkf i g0Y g"dgngxg"uco r ngu"cnngp"cv'uco r nkpi "nqecvkqp"6"ku'o qtg"
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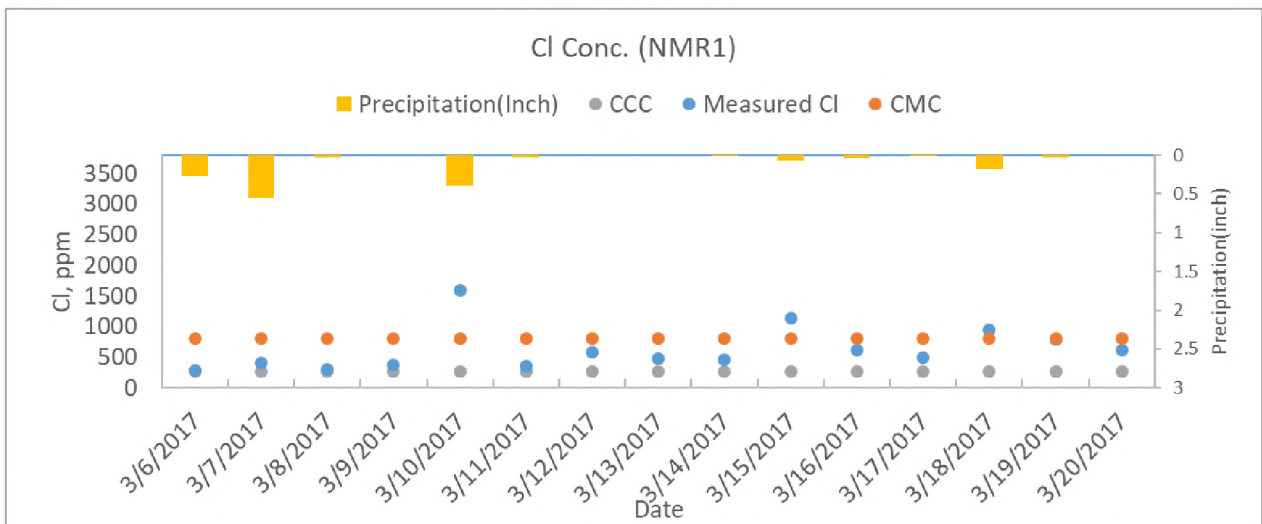


y kj "utgco "y cvgt0J qy gxgt."k'ku"qhvgp"vj g'ecug"vj cv'uco r nkpi "mjecvkqp"6"ku"pqv'ceeguukdrg."
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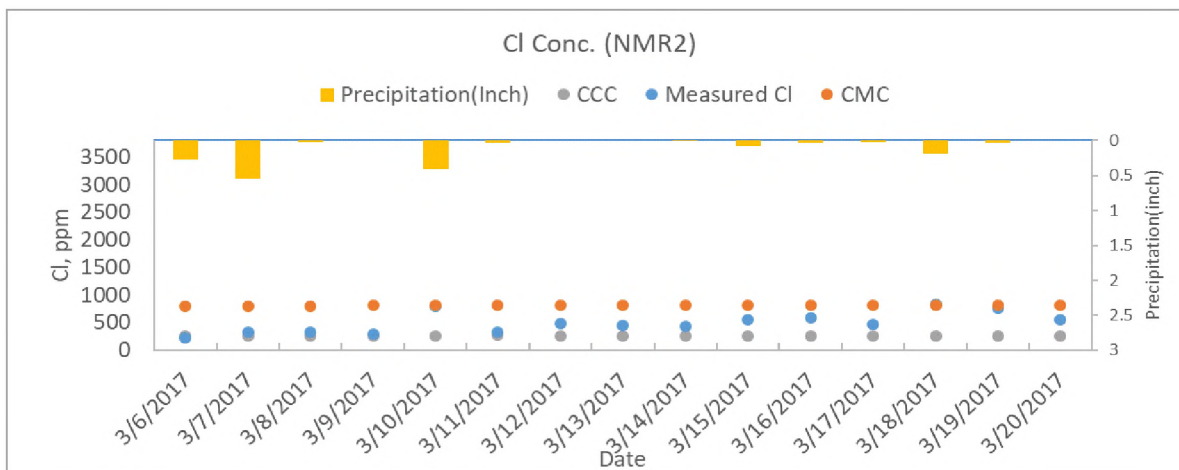
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f wtkpi "vj g'y kpvt"eqo r ctgf "vq"vj cv'qh'vj g'dcugrkpg'r gtlkf 0Utgc "ej mtkf g"eqpegpvcvkqp"rgxgn"
rku'dgwy ggp"EEE"cpf "EO E"ucpf ctf "htq"o quv'qh'vj g'wko g."dw'k'gzeggf u"EO E"ucpf ctf "htq"
ugxgtcnf c{ u'chgt"vj g'r tgekr kcvkp0

Uco r nkpi "mjecvkqp"3"gzj kdku"vj g"j ki j guv'utgco "ej mtkf g"rgxgn"y j lej "uwi i guw'r tgupeg"qh"
ucn'uqwtg"kp"wr utgco "ctgc"gg 0"tqcf "y c{ 'r ctcmgrf "vq"vj g'utgco -0Uco r ngu'htqo "mjecvkqp"
4"*tki j v'dghgt"vj g"dtkf i g-t"uj qy "vj g"mgy guv'utgco "ej mtkf g"rgxgn"co qpi "cm"6"uco r nkpi "
mjecvkpu."cpf "vj ku" f getgcugf "ej mtkf g"eqpegpvcvkqp"dgwy ggp"mjecvkpu"3"cpf "4"eqwf "dg"
gxr rkpfg "d{ "vj g'hev'vj cv'hti g'tcev'qh'y gwpf "cpf "ugxgtcnfctgm"gzku'dgwy ggp"mjecvkpu"3"
cpf "4."cpf "vj g{ "eqpvdwgf"y cvgt "vj cv'j cu"pqv'dggp"chgevgf "d{ "f g/lekp "cevkxk\ "xlc"uwhteg"
twpqhh"cpf "i tqwpf y cvgt"cpf "vj cv'f kwwgf "utgco "ej mtkf g0

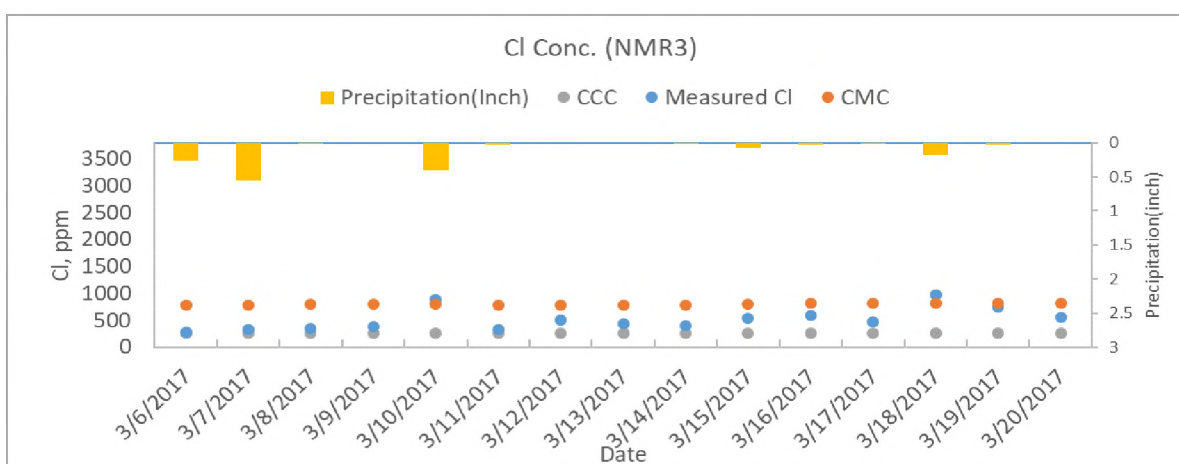
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vq"uco r ngu"eqmgevgf "cv"mjecvkqp"4."gur gekm\ "kp" f c{ u"y kj "j ki j "utgco "ej mtkf g"rgxgn"
*5B24239"cpf "5B: 4239+0Y j kg"vj ku'lpetgcug"qh'utgco "ej mtkf g"ku"pqv'uki pkhecpv"v'ku'ukn"
f kuegtpcdn0Vj ku'tkug"kp"utgco "ej mtkf g"eqpegpvcvkqp"eqwf "dg"cwtkdwgf "vq"ucm\ "f tclpci g"
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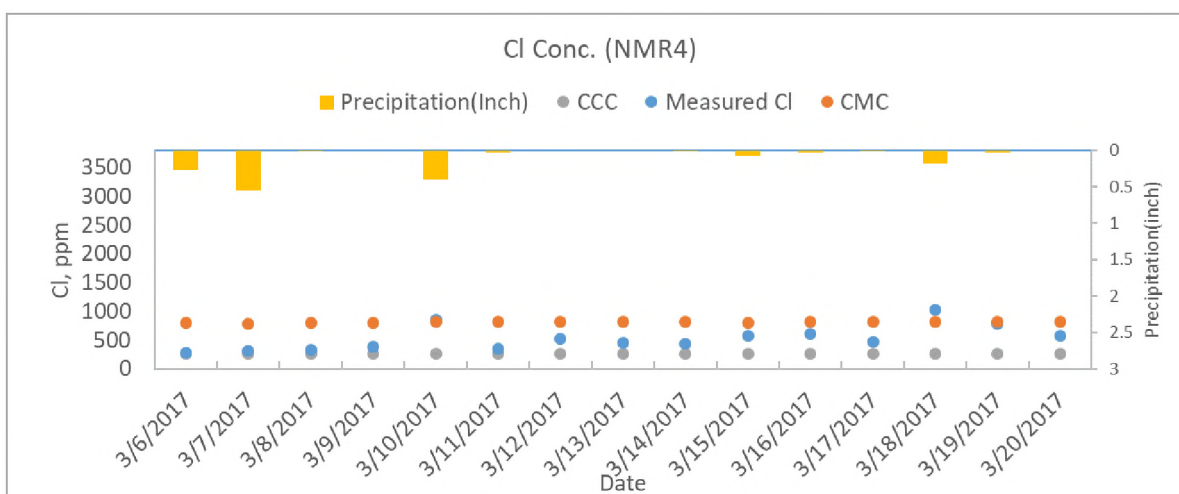
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Hk wtg'606'Tguw/hqt'P O T'uco r npi 'hpev'qp'4'lp'y kvgt.'4239



Hk wtg'607'Tguw/hqt'P O T'uco r npi 'hpev'qp'5'lp'y kvgt.'4239



Hk wtg'608'Tguw/hqt'P O T'uco r npi 'hpev'qp'6'lp'y kvgt.'4239



605" Rkpg'Etggm'y kpvgt'qh'4239

Hk wtgu'609'6'60; 'uj qy 'y g'ej mtkf g'eqpegpvcvkp'cpf 'ecrwv'gf 'EEE'cpf 'EO E'ucpf ctf u'
hqt'uco r ngu'eqmgev'f 'kp'RE'f wtkpi 'y g'y kpvgt'qh'4239'ht qo '5l: 4239'vq'5B; 42390

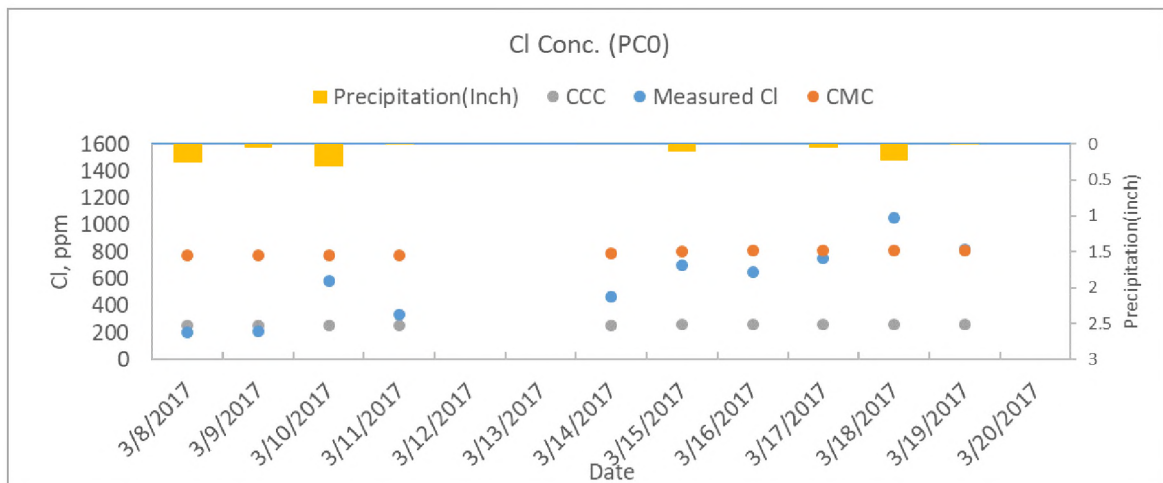
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Uco r rkp 'Nqecvkp	2	3	4
En'cxgtci g'eqpe0'rro	798	872	92;
En'o cz'eqpe0'rro	3277	33; 2	3739
En'o kp'eqpe0'rro	3; :	432	3; ;
Cxgtci g'EO E.'rro	9; 4	9; 6	9; 6
Cxgtci g'EEE.'rro	479	479	479

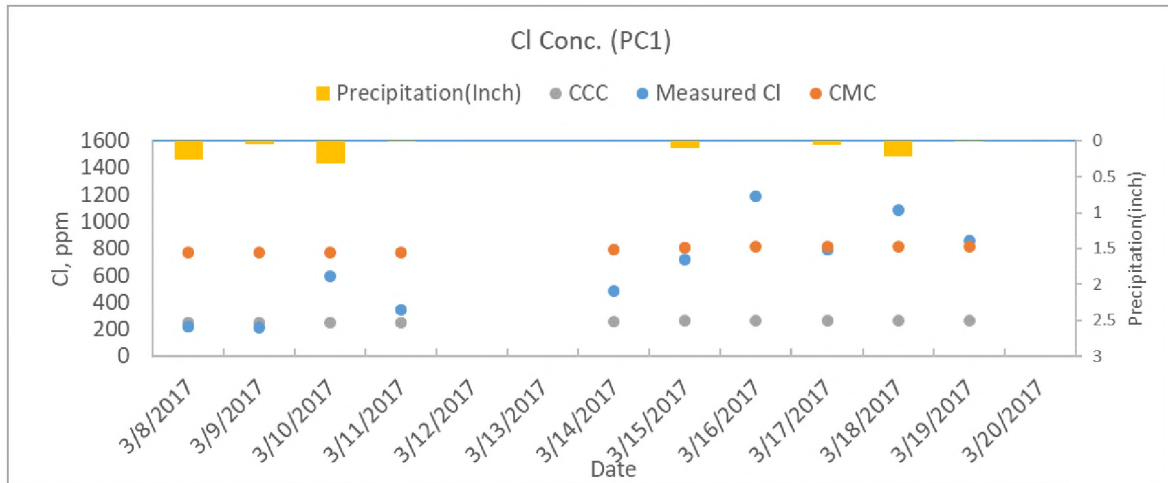
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y cv'ht qo "dcugrkpg"r gtrkf 0' Utgco "ej mtkf g'eqpegpvcvkp"cr r tqcej gu"qt"gzeggf u"EO E"
ucpf ctf."cpf 'eqwf'tgcej "cdq'xg'3722'rro "nqecvkp"4.'5B84239+0

Eqo r ctkpi 'y g'y tgg'uco r rkp 'nqecvkpu.'y gtg'ku'c'tgpf 'qh'tkupi 'ej mtkf g'eqpegpvcvkp'ht qo "
w'utgco 'vq'f qy pwtgco 0Ej mtkf g'uqwtg'dgy ggp'uco r rkp 'nqecvkp'2'cpf 'uco r rkp 'nqecvkp'
4'kpen'f gu'tgukf gpv'cn'tgc."c'uj qr r kpi "o cm'r ctnkpi 'm'v'cu'y gm'cu'RgppF QV'ucn'uqenr kg0'
Hqy "r cvj "qh'y cvgt'ht qo "RgppF QV'uqenr kg"vq'y g'utgco "ku'h'ctn' "eqo r ngz0'Y j kg'tguwn'
uwi i guw'kpetgcugf 'ej mtkf g'ngxgn'f wg'vq'f g'lekpi 'ucn'kp'y ku'ctgc.'k'ku'f k'k'ew'n'vq'ugr ctcv'g'y g'
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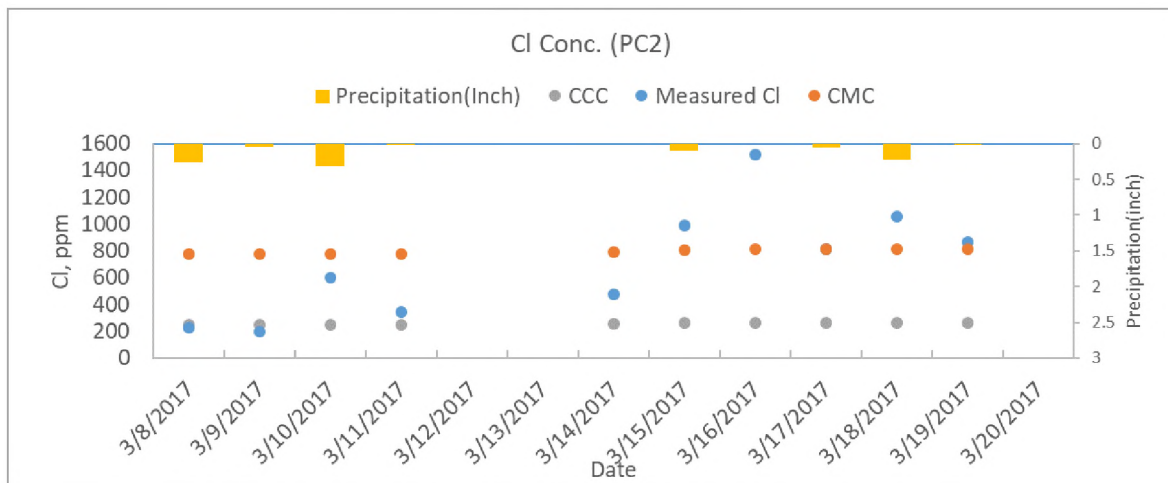
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xcnw'vq'pqto cn'tcpi g'tgr'v'xgn' 'hcu0'Y kj qw'r tgekr kcv'kp.'utgco "ej mtkf g'ngxgn'f tqr u'dcen'
f qy p'y kj kp'qpg'f c{ 'y kj "k'wng'kpi g'kpi 'ghge'0



Hk wtg'609'Tguwn/hqt'RE'uco r rkp 'nqecvkp'2'kp'y kpvgt.'4239



Hki wtg'608: 'Tguwn'hqt'RE'uco r nkpi 'hqcvcqp'3'lp'y kvgt.'4239



Hki wtg'608: 'Tguwn'hqt'RE'uco r nkpi 'hqcvcqp'4'lp'y kvgt.'4239

Kp'i gpgten'uco r ngu'hqo "y g'y kvgt'qh'4239"uj qy "kpetgcugf"ej mtkf g"eqpegpvcvqp"ngxgn'
 eqo r ctgf"vq'y qug'cngr"fwtkpi "y g'dcugrkg'r gkqf 0F g/lekpi "cevkxkgu'ecwug'utgco "ej mtkf g"
 eqpegpvcvqp"vq'gzeggf'E O E'ucpf ctf'hqmry kpi "r tgekr kcvqp'gxgpv0Dcugf "qp"qwt'cpcn(uku'
 qp"y g"eqmgevff"uco r ngu."RgppF QV"uqemr kgru'ko r cev'ku'wpegtvcvqp0Hwtj gto qtg."f g/lekpi "
 ucn'uuggo u'pqv'vq'rkpi gt'rkpi "kp'y g'utgco u0Vj cv'ku'vq"uc{ "y j gp'r tgekr kcvqp"uqr u."kv'f qgu"
 pqv'cngr'rkpi "3'f c{ +hqt'utgco "ej mtkf g'vq"ftqr 'dcen'vq'c'hqy gt'ngxgn0

606" P kpg'O kg'Twp<y kvgt'qh'423:

Hki wtgu'6042'6'6045'uj qy "ej mtkf g"eqpegpvcvqp"cpf "ecrwrvgf"EEE"cpf "E O E'ucpf ctf u'hqt"
 uco r ngu'eqmgevff"kp'P O T'f wtkpi "y kvgt'qh'423: "htqo "33 424239"vq'445 423: 0

Vcdrg'60'Uwo o ct{ "qh'f cv'eqmgevff'hqt'y g'P O T'ukg*y kvgt.'423: +

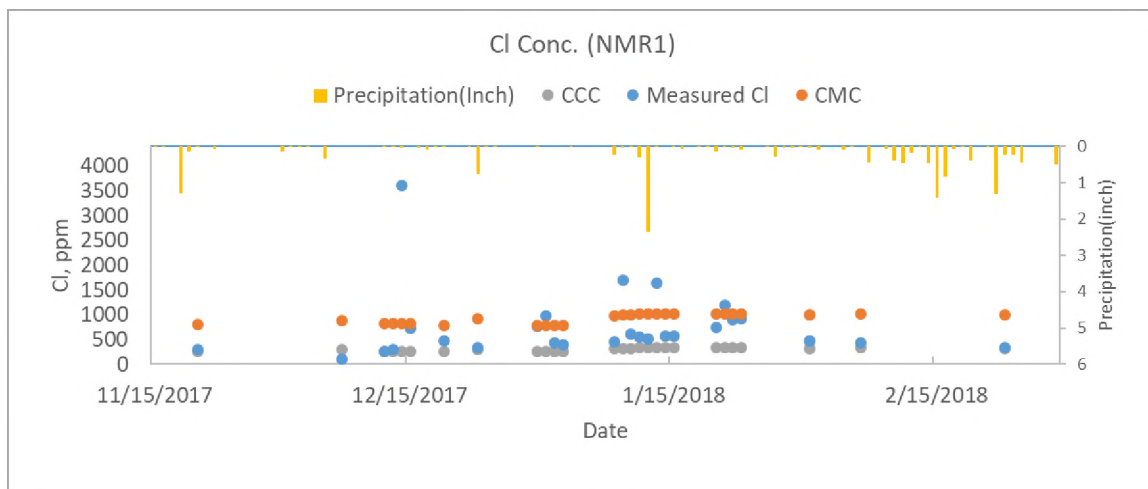
Uco r nkpi "Nqecvqp"	3"	4"	5"	6
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Enl'xgtci g'eqpe0rro	992	8; 3	949	893
Enl'o cz'eqpe0rro	38; 3	3994	42; 6	352:
Enl'o kp'eqpe0rro	562	4: 6	539	596
Cxgtci g'EOE.'rro	322:	3228	322:	3237
Cxgtci g'EEE.'rro	548	548	548	54;

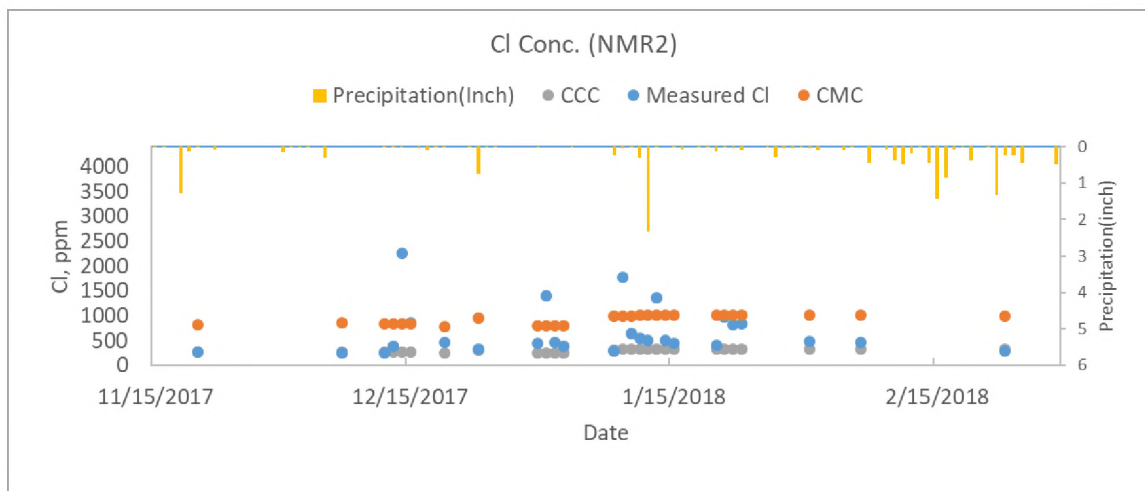
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K'ku'ko r qtcpv'vq"r qlpv'qw'y cv'y kpgt"qh'423: "hgcwtgu"gzvgo g"eqrf "y gcvj gt"kp"Rkwudwti j " ctgc"kp" gctn{ "Lcpwt{ "qh'423: ."cpf "kp'y ku'r gtlkf ."POT"y cu'ltq| gp'y j lej "pqv'qpn{ "chgev f " uco r ng"eqmgev kpu."dw'cnuq"cngtgf "y g'f { pco leu'qh'ucn'y cvgt "tcur qtvcvqp0P qvg'y cv."kp" eqpvtcu."vgo r gtcwtgu'f wtkpi "y g'uco r npi "r gtlkf "kp'y g'y kpgt"qh'4239"y gtg"qpn{ "ctqwpf "2" Egnukw'f gi tgg."cpf "cu'c'tguwn"upqy "o gmgf "hcu'y kj "y g'f g'lelpi "ucn'cpf "tgej gu" POT"y kj " rkwg'j kpf tcepg0J qy gxgt."f wtkpi "y g'uco r npi "r gtlkf "qh'y g'y kpgt"qh'423: ."vgo r gtcwtg'j cu" f tqr r gf "y gmdgm y "/32"Egnukw'f gi tgg0Hqt"y g" POT"ukg."y g'y gwpf "dgwy ggp"mcevcqp"3" cpf "4."cpf "gxgp"y g"uqk'dgm y "y g'dtkf i g'y gtg"cm'qdugt xgf "ltq| gp"kp" gctn{ "Lcpwt{ "423: 0' Vj ku'o c{ "j cxg'tguwnf "kp'y g'tgf wegf "co qwpv'qh'ucn{ "f tclpci g'gpgtkpi "POT0

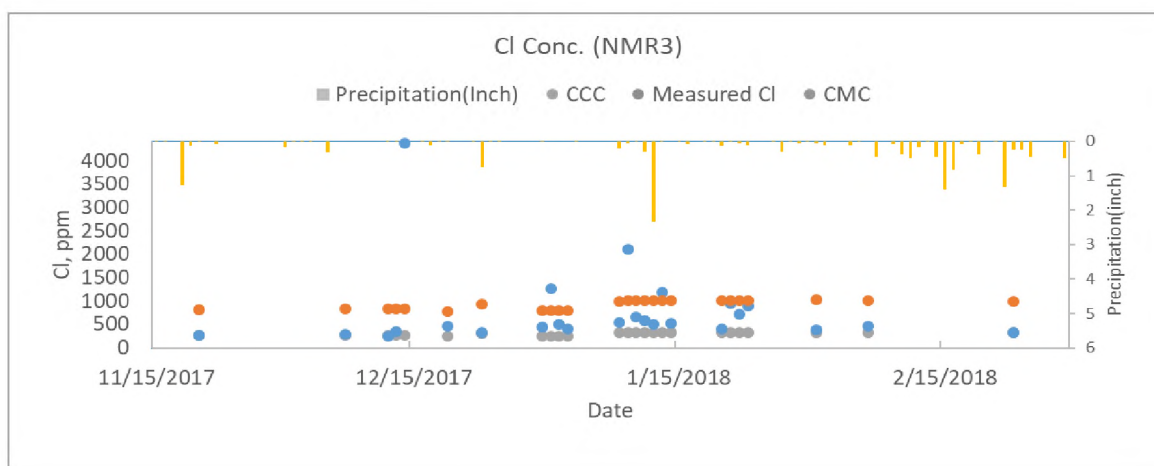
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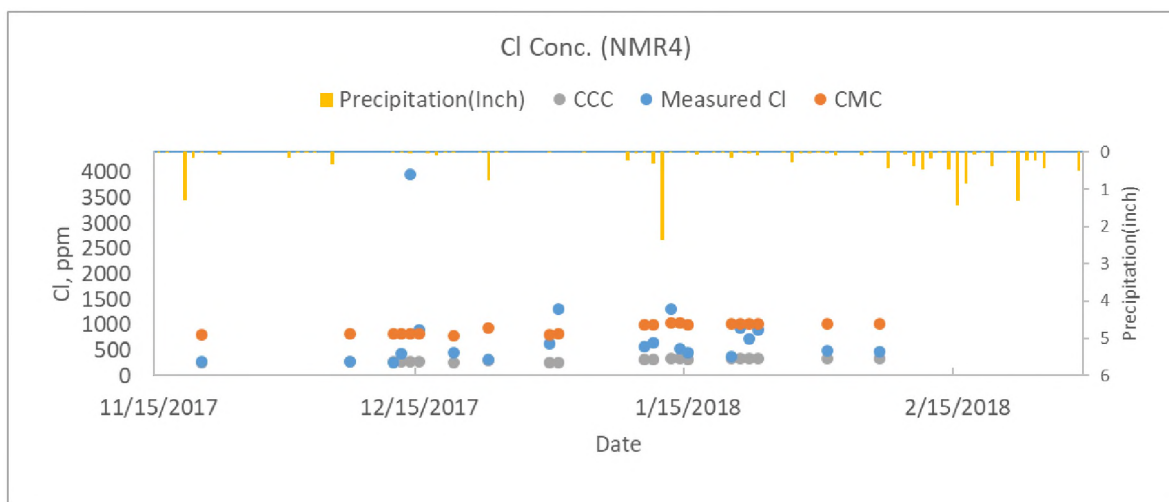
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Hki wtg'6043'Tguwn'hqt'POT'uco r npi 'mpecvqp'4'lp'y kvgt.'423:



Hki wtg'6044'Tguwn'hqt'POT'uco r npi 'mpecvqp'5'y kvgt.'423:



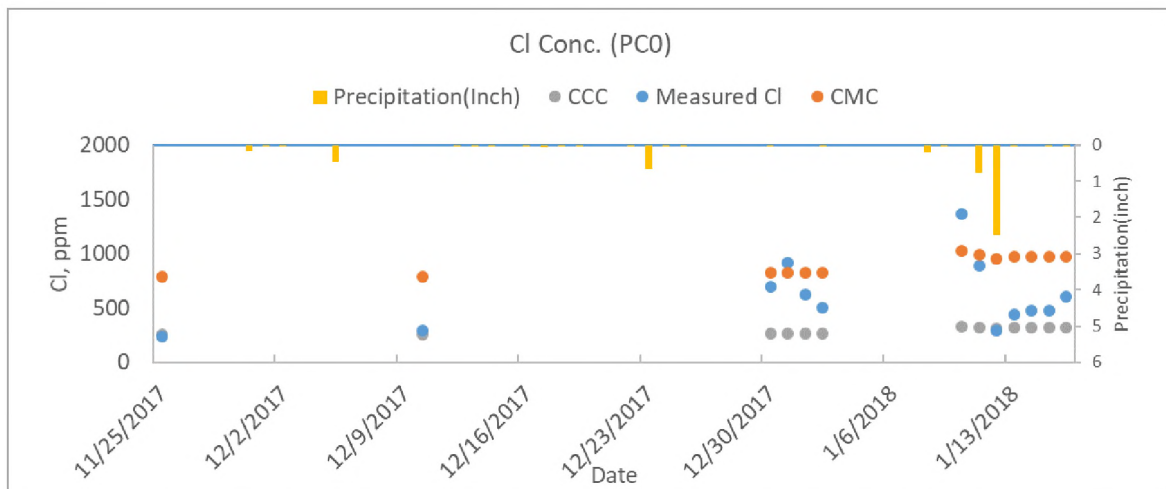
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6007" Rkpg'Etggm'y kpgt'qh'423:

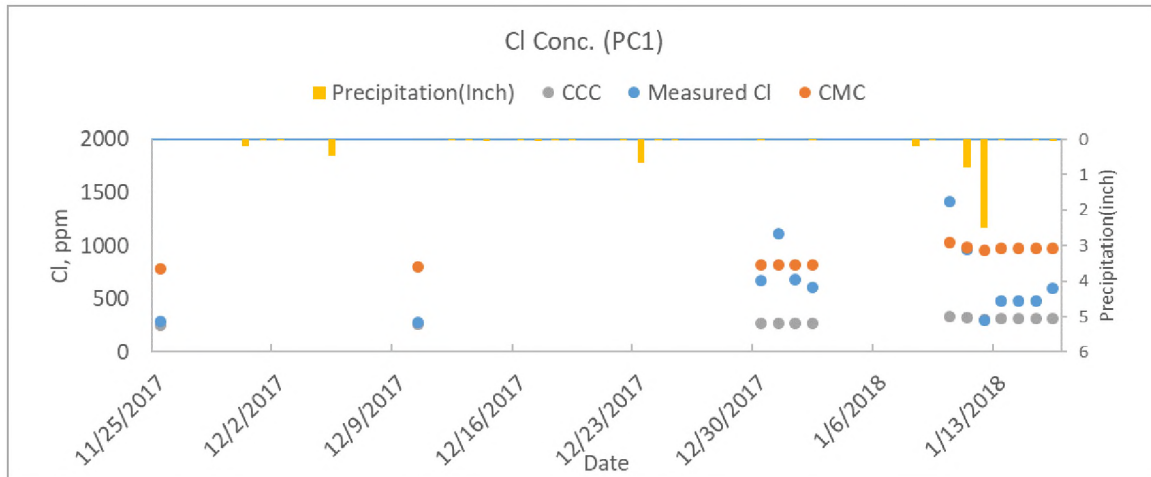
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hqt "uco r ngu"eqmgevff "htqo "y g"RE"ukg" f wtkpi "y g"y kpgt "qh'423: "htqo "33474239"vq"
3 B842390Uko kct"q'y g'y kpgt'qh'4239."o quv'utgco "ej mtkf g'xcnwgul'cm'dgy ggp'EEE'cpf "
EO E'ucpf ctf u'y kj "c'hgy "ecugu'y j gtg'EO E'ucpf ctf 'y cu'gzeggf gf 0Lwv'hkng'P O T'ukg."y g"
RE"ukg'y cu'cnq'htq| gp'lp'gctn{ 'Lcpwet{ '423: .y j kej "dtlpi u'wpegtvcvkp'v'q'qwt'cpcn{uku0

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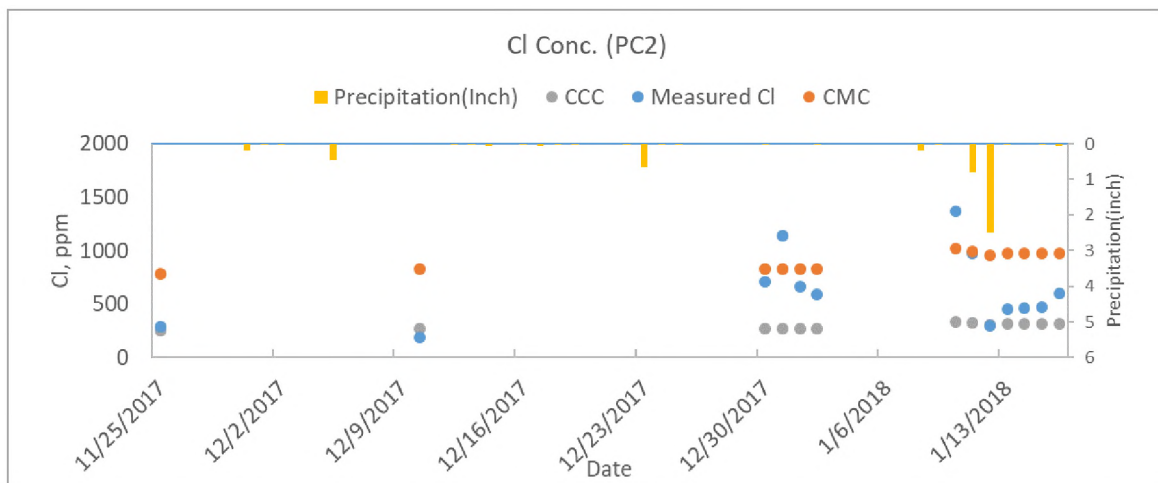
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En'o kp'eqpe0rro	462	498	3: 9
Cxgtci g'EO E.'rro	; 25	; 24	; 29
Cxgtci g'EEE.'rro	4; 4	4; 4	4; 6



Hki wtg'6046'Tguwn/hqt'RE'uco r npi 'nqecvkp'2'lp'y kpgt."423:



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Kp'i gpgtcn'f'cvc'eqmgev'f'lp'y g'y kpgt'qh'423: "ctg'uko knt'v'q'q'g'lt'qo "4239"lp'v'gto u'qh'
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 ej mtkf'g'r gcm'0'K'ku"qdugt'xgf" y j cv'lp'o quv'ecugu"utgco "ej mtkf'g'eqpegpvcvkp"tgo clpu"
 dgwy ggp'EEE'cpf'EO E'ucpf'ctf'u'dw'r'tgekr'kcvkp'cpf'y'g'f'g/lepi "eqwrf'v'ki i gt'c'tlug'lp"
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 kpetgcugf'r'tgekr'kcvkp."y j kg'ectt'kgu'o qtg'ucn'v'q'utgco ."o c{ "cnq'f'knwg'ej mtkf'g'0Vj ku'ku"
 eqpuk'ngp'y'kj "qwt'tguwn'y j gtg'o quv'uco r ngu'y'kj "j ki j "utgco "ej mtkf'g'eqpegpvcvkp'ngxn'
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 o gcum'gf'ej mtkf'g'eqpegpvcvkpu."gxgp'y'kj "ectg'cngp'lp'y'g'cpcn'uku'lp'x'q'rkpi "y'ku'r'ctv'qh'
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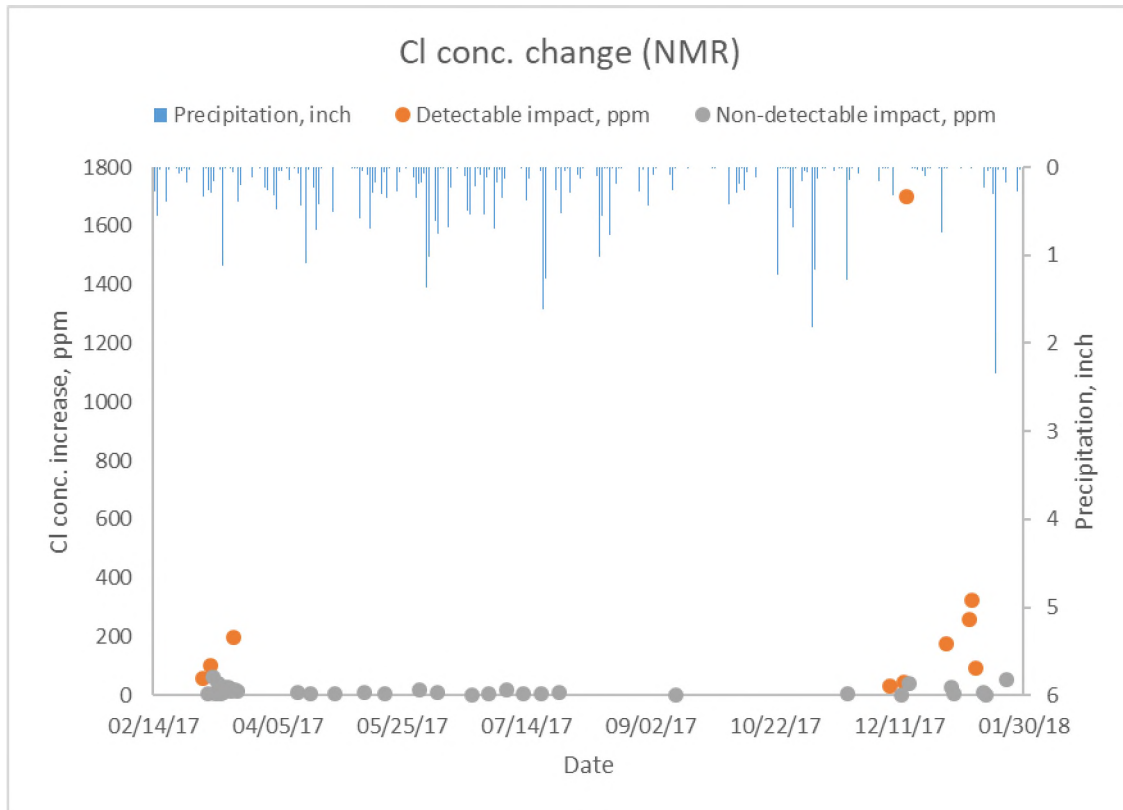
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 vgtu u'qh'ej ntkf g'eqpegpvcvkqp0J gtgkp. 'ko r cev'qh'RgppF QV'y kvgt 'ucn'cevkvkv{ 'ku'gxcnvcvgf "
 d{ "gzco kpkpi "ej cpi gu"kp'utgco "ej ntkf g'eqpegpvcvkqp"dgvy ggp"vy q"eqpvtqn'r qkpwu"*qt."
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P qvg'vj cv'htq'vj g"PO T"ukg. "ftckpci g'u{ ugo "htqo "RgppF QV'dtkf i g'ku'vj g'qpn{ "mecn'ej ntkf g"
 uqwtg. "cpf "ku" ko r cev' qp" y cvgt "s wrkv{ "ku" f kgevn{ "tghngevgf "d{ "eqo r ctkpi "ej ntkf g"
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 tgukf gpvkn'cpf "eqo o gtekn'ctgc. "cpf "mecn'r ctnkpi "mqvu+gzgt'vj gk"ko r cev'uko wncpgqwu{. "
 cpf "vj g'tghgtg"fcv"eqngevgf "htqo "vj g"RE"ukg"qpn{ "tghngev'vj g"eqo dkpgf "ghngev'qh'cm'qh'vj g"
 ej ntkf g'uqwtgu. "cpf "ctg'pqv'ko kgf "vq"RgppF QV/tgrvgf "uqwtg0

Fcv"ctg"fkxkf gf "kvq"vy q"i tqwr u"cpf "uj qy p"kp" Hki wtgu"649"cpf "604: . "tgr gevkgn{. "cu"
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 y kj "ej ntkf g'eqpegpvcvkqp"ej cpi g'i tgcvtg'vj cp"32' " *eqo r ctgf "vq'dcemt tqwpf "qt'wr utgco "
 ej ntkf g'eqpegpvcvkqp+0' op qp/f ggevcdrng"ko r cev0" i tqwr "eqpukwu"qh'fcv" y kj "ej ntkf g"
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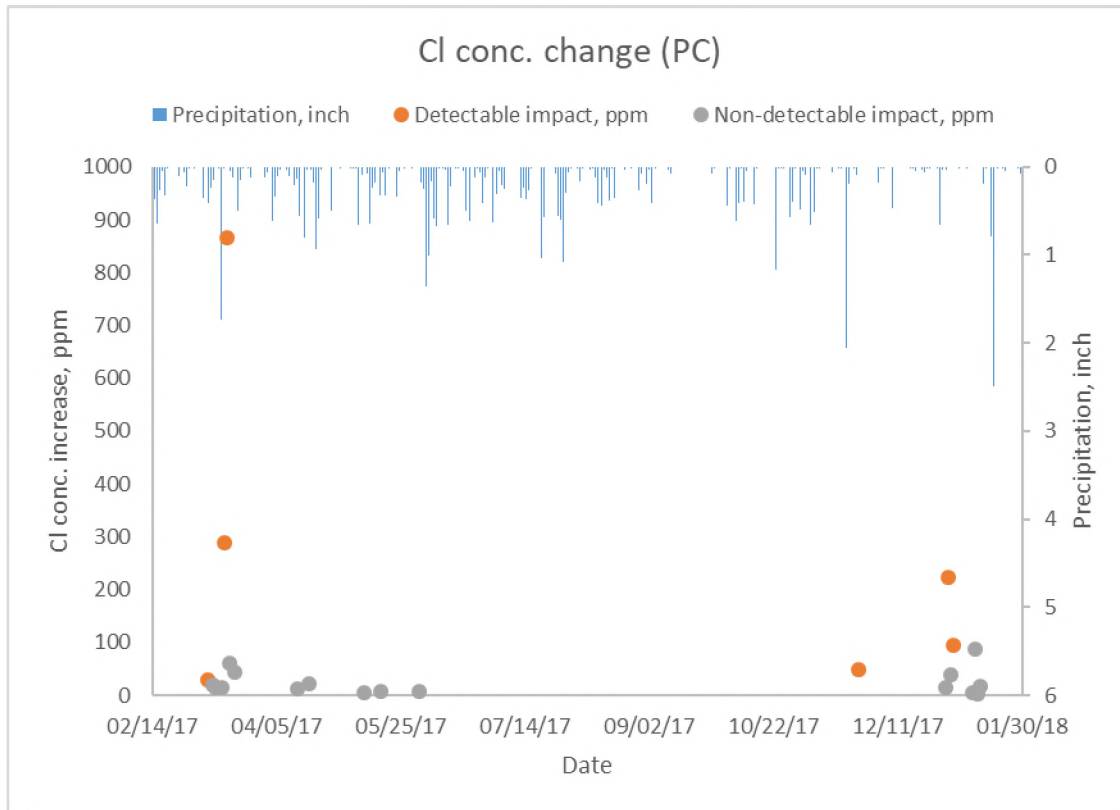
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 f ggevcdrng"ko r cev'y cu'qdugtvgf "ftkpi "vj g'dcugrkg"mgy "r gkqf "y j lej "ku'eqpukvgpv'y kj "vj g"
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 o qpkqtkpi "o gy qf "htq"vj g'uj qtvvgtu "ej cpi g0

Y g'cnuq"pqvleg"vj cv'r gcn'ej ntkf g'eqpegpvcvkqp"fggu'pqv'pgeguuctk{ "eqttgur qp"vq"r gcn'
 r tgekr kvkv0K'ku'ko r qtvcpv'vq'pqvg'vj cv'utgco "f luej cti g"xqno g'cnuq"chhgew'vj g'ej ntkf g"
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 vq"qxgt": 22"r r o 0'Vj ku'ukg'ku'o wej "o qtg"eqo r ngz"yj cp"yj g"P O T"ukg"dgecvug"o wnr ng"
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 cevxxkkgu'j cxg'ko r cev'qp'yj g'RE'utgco 'y cvgt's wcrkv{ . 'cpf 'yj g'ko r cev'eqwf 'dg'uki pklcpcv0



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 eqpegpvtcvkp'ej cpi g'i tgcvt'y cp'32' 06P qp/f ggevdng'ko r cevö'i tqwr 'ku'f cv'y kj "
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606" Nko kcvkpu

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 kp'yj g'uwf { 'r gtlqf 0Utgco 'f luej cti g'o gcuwtgo gpvu.'kh'cxckcdng.'y qwr 'cmqy 'wu'v'eqpxgtv'
 utgco 'ej nrtkf g'eqpegpvtcvkp'v'ej nrtkf g'o cuu.'y j lej 'ecp'dg'dgwt'tgrcvf 'v'yj g'co qwpv'qh'
 ucn'cr r nkgf 'v'yj g'tqcf y c { u0

Cpqvj gt' rko kcvkpu'qh'yj g'uwf { 'ku'yj g'wpegtcvkv{ 'cuuqekcvf'y kj 'kf gpvkh{ kpi 'r gcm'utgco "
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 Vj ku'y cu'f qpg'y kj qw'yj g'hpqy ngf i g'qh'y j gp'yj g'r gcm'ej nrtkf g'ngxgny qwr 'vcng'r nreg0Vj g'
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 y cvgt's wcrkv{ 0Y j cv'y g'o gcuwtgf 'uj qy 'y cv'yj g'y kpgt'qh'423: 'j cu'c'f khtgtpv'ej nrtkf g'dwrf /
 wr 'r cwgt'htqo 'y cv'qh'yj g'r tglxkwu' { gct0Vj ku'uwf { 'f kf 'pqv'vcng'uco r ngu'chvt'htq gp'utgco u'
 y gtg'y cy gf 'cpf 'eqwf 'pqv'eqo o gpv'qp'y j gj gt'qt'pqv'yj g'ucn'qr gtcvkv'j cf 'c'f grc { gf "
 ko r cev'wpgf gt'uwej 'eqrf'y gc'yj gt'uegpctk0



Vq'r tqxkf g" c" tghgtgpeg" r qkp'cu" v" j qy "o wej "ucn" o ki j v'j cxg" dgpp" cr r rkgf. "RgppF QVøu"
 i wkf grkpgu" hqt "ucn" ur tgc f "qr gtcvkqp" cu" ur gekhgf "lp" v'j g" RgppF QV" O clpvpcpeg" O cpwcn'ku"
 tgr tqf wegf "cu" Vcdrg" 6Q "dgmjy 0

First & Second Priority Routes Anti-Skid/Salt Mix Application Rate Guidelines								
	100% Salt lb/SLM		25/75 lb SLM		50/50 lb SLM		75/25 lb SLM	
Surface Temp.	Dry	Pre wet	Dry	Pre wet	Dry	Pre wet	Dry	Pre wet
Above 25	120	100	140*	120*	170*	150*	200*	180*
15-25	210	170	230	180	250	200	310	270
10-14	**	**	250	200	300	250	350	300
Below 10	**	**	**	**	**	**	**	**

Vcdrg" 6Q "RgppF QV" ucn" ur tgc f "i wkf grkpgu" rkgf "lp" øEj cr vgt "6" Y kpvt "Ugtxleguø" qh"
 v'j g" RgppF QV" Rwd" 45" O clpvpcpeg" O cpwcn' Tgx" 34/39+ "y j gtg" UNO "ucpf u'hqt" Upqy "
 Ncp g" O krg" O Cppqvckqp" qh" v'j g" i wkf grkpgu" ucvgu" v'j cv' ucn" qt "ucn" cpvk/unkf "o kz" o c{ "dg"
 wugf "qp" ugeqpf "r tkqtkv{ "tqwg u" v" ceeqo o qf cvg" j ki j "xqno g" v' tchle" cu" eqpf kkpqu"
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 ugtxgu" cu" i gpgten' ucvgu" kf g' i wkf cpeg=cpf "v'j cv' h' tgcvkpi "f qy p" v'j g" egpvt "qh" c" j ki j y c{ "
 cr r rdecvkqp" tcvgu" u'j qwf "dg" f qwdrgf "y j krg" eqpukf gt" m'j gtlpi "tcvgu" qp" uwdugs wgpv"
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 y kmf lewvg" cr r rdecvkqp" tcvg" f gekukqu0

60" Uwo o ct{

Ucn" qr gtcvkqp" qp" tqcf y c{ u' ecwugu" c' tkg' lp" utgco "ej m' tlf g' eqpegpvcvkqp" lp" v'j g' y kpvt "ko g"
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J qy gxgt. "y g" cnuq" hqwpf "v'j cv' v'j gtg" ku" rkwrg" r kpi gtlpi "ghgev" qh' tqcf "ucn" ko r cev' qp" utgco "
 ej m' tlf g' ngxgn' dcugf "qp" v'j g" rko kgf "pwo dgt" qh" y cvgt "uco r ngu" y g" j cxg" eqmgevgf 0" Utgco "
 ej m' tlf g' r gcnf tqr u' f qy p" h' cuv' chgt "r tgekr kcvkqp0



Hqt "vj g" P O T "ukg. "vj g" ko r cev'qh" tqcf "ucn" hqo "RgppF QV" dtkf i g" qp" vj g" utgco "ej ntkf g"
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Eqpukf gt kpi "vj g" u'j qtv' f wtcvkp" pcwtg' qh' vj g' ucn' ko r cev' cpf "vj g" men' qh' eqp' kpwqwu' utgco "
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70' Eqpenwkpu

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 uwf { O' kp' v' go u' qh' ej ntkf g' eqpegpvtcvkp" guko cvkp. "j ki j / tguqnwkq" f c'v' cu' ku' tgeqo o gp' gf O'
 Vj ku' ku' dgecwug' ceewt' cv' ej ntkf g' eqpegpvtcvkp" guko cvkp" kp' cp{ "hmy / wr" o qf grkpi "y qtn'
 y qwf "tgs wktg' kphqto cvkp" hng' vj g' eqp' t' d' wkp' qh' g' cej "uo cn' d' culp' cpf "vj gk' q' w' g' v' h' q' ec' vkpu"
 kp' c" y cvgtuj gf O' Vj g' my / tguqnwkq" dcug" o cr "uko r n{ "eqwrf "pqv' r tqxkf g' ceewt' cv' hmy "r cvj "
 y j kej "r q' v' p' kcm{ "chgeu" vj g' ej ntkf g' eqpegpvtcvkp" guko cvgu' cu' vj g' { "f gr gpf "qp" vj g' ctgcu"
 y j gtg' ucn' ku' cr r kgf 0

K' ku' ko r qt' cpv' vq' "pqv" vj cv' tgi ctf ngu' qh' vj g' tguqnwkq" qh' vj g' dcug" o cr "f c'v' cu' g' wugf . "vj g"
 tqcf y c{ "hgcwtgu' uwej "cu' ewtdu' cpf "dtkf i gu' u'j qwf "dg' r tqr gtn{ "kpeqtr qtcv' gf 0

Ctgc u' chgevgf "d{ " hmy "qwy ctf "hqt "RgppF QV" j ki j y c{ "tki j v' qh' y c{ "qd' clp' gf "wukpi "j ki j /
 tguqnwkq" NkF CT" f c'v' ku' uo cngt "vj cp" vj cv' qd' clp' gf "hqt "vj g' my / tguqnwkq" NkF CT" f c'v' O'
 Wukpi "my / tguqnwkq" NkF CT" f c'v. "vj g' chgevgf "ctgc" wtpgf "qw" uko knt "y kj "qt" y kj qw'
 eqpukf gt kpi "dtkf i g' cpf "ewtdu" o qf khlecpv' qp' hmy "r cvj "kp" vj g' ecugu' uwf kgf 0

Vj g' twp' q' hu' hqt "j ki j y c{ "kp" vj g' uwf { "ctgc" ctg" o ckn{ "hmy "hqt "vj g' dqwpf ct{ "qh' dtkf i gu"
 cpf "cnpi "ewtdu' O' T w' p' q' hu' y kn' o q' xg' dg{ qpf "vj g' ewtdu' kp' w' uwt' q' w' p' kpi "pgki j dqtj q' qf u' kh"
 ewtdu' f q' p' q' v' eqxgt "vj g' gp' v' t' g' r ctv' qh' dtkf i gu' O' ewtdu' u'j qwf "dg' cp' ko r qt' cpv' r ctv' qh' tqcf y c{ "
 I K' u' o qf grkpi O' Vj g' uwf { "ergetn{ "uj qy u' vj cv' vj g' hmy "r cvj "o qf grkpi "hco gy qtn' r t' g' u' p' v' g' "ku"
 ecr cdrg' qh' ecr wt kpi "j qy "ewtdu' eqwrf "hqt eg' hmy "vq" o q' xg' cnpi "vj g' tqcf y c{ "u' kp' vq" vj g"
 w' p' f gti tqwpf "r k' g' p' g' y qtn' vj tqwi j "vj g' k' p' g' u' qp' vj g' j ki j y c{ O' Vj wu. "vj g' o qf gn' r t' g' u' p' v' g' "cnuq"
 j cu' cr r h' ec' vkpu' kp' tqcf y c{ u' f guki p' t' gi ctf kpi "y j gtg' vq' ej c' p' p' gn' vj g' twp' q' hu' 0



Y j gtgxt 'c'tkxgt 'kpvtugev'c'j ki j y c{. 'twpqh'htqo 'vj g'j ki j y c{ 'o c{ 'hny 'f kgew{ 'kpq'vj g'
tkxgt 'vj tqwi j 'r k'g' 'kprv'qp'vj g'j ki j y c{ '*g0 0'P kpg' 'O krg' 'Twp'cpf 'K598'cetquu'ugev'kp-0'
J {f tqm{ kcrn'o qf gkpi . 'y j lej 'cee'wpv'htq'j qy 'uwt'ceg'hny 'ko r cev'utgco 'hny . 'ku'cp'
kpf kur gpucdr' r ctv'qh'cpcn{uku'qp'j qy 'cpf 'q'j y j cv'gz'v'p'ucn'cr r krgf 'qp'j ki j y c{ 'y qwf 'chge'v'
vj g'ej nrtkf g'eqpegp'vcv'qp'qh'vj g'tkxgt0Vj g'r tgu'p'v'f 'r tqegf wtg'cpf 'vj g'hny 'r cvj 'o qf gkpi '
htco gy qtn'ecp'eqo r ngo gpv'j {f tqm{ kcrn'o qf gkpi 'cpf 'r tqxkf g'c'eqo r tgi gpukxg'r lewtg'qh'
y j gtg'vj g'y cvgt 'hny u'q'htqo 'vj g'j ki j y c{u' . 'cpf . 'htq'vj cv'o cvgt . 'vj g'f gu'k'p'cv'qp'qh'vj g'ucnu0

Ucn'qr gtcv'qp'qp'tqcf y c{ u'ecwugu'c'tkug'kp'utgco 'ej nrtkf g'eqpegp'vcv'qp'kp'y k'p'v'g' 'ko g0Vj g'
EEE'etkgt'kp'j cu'dggp'gzeggf gf 'o quv'qh'vj g'ko g'kp'pqp/y k'p'v'g' 'dcug'k'p'hny 'r g'k'f 'y kj qw'
tqcf 'ucn'ko r cev'htq'dqj 'ukgu0Vj g'j ki j gt 'EO E'etkgt'kp'j cu'dggp'gzeggf gf 'uqo g'ko gu'
f wtkpi 'vj g'y k'p'v'g' 'ucn'kp' 'r g'k'f 'htq'dqj 'ukgu'y g'uwf k'f 0

J qy gxgt . 'dcugf 'qp'vj g'rko k'gf 'pwo dgt 'qh'y cvgt 'uco r ngu'y g'j cxg'eqm'ge'v'f . 'y g'cnuq'hqwpf '
vj cv'vj gtg'y cu'rk'w'g'rkpi g'kpi 'ghge'v'qh'tqcf 'ucn'ko r cev'qp'utgco 'ej nrtkf g'rgxgr0'Ut gco '
ej nrtkf g'r gcn'f tqr u'f qy p'hcu'chgt 'r tgekr kcv'qp0

Co qpi 'vj g'y q'ukgu'uwf k'f . 'cv'vj g'P O T'ukg . 'vj g'ko r cev'qh'tqcf 'ucn'htqo 'RgppF QV'dtkf i g'
qp'vj g'utgco 'ej nrtkf g'eqpegp'vcv'qp'ku'pqv'uki p'k'ecp'v'htq'o quv'ecugu0Dw'lp'qp'g'ukpi rg'gxgpv'
*34B64239+ . 'c'uki p'k'ecp'v'ko r cev'k'p'ngf 'q'vj g'dtkf i g'f t'k'pci g'j cu'dggp'qdu'g'x'f 0

Cu'htq'vj g'RE'ukg . 'vj g'gz'k'v'peg'qh'q'j gt 'ucn'uq'w'egu'kp'y g'ctgc'o cngu'vj g'f g'v'gto k'p'cv'qp'qh'
vj g'RgppF QV'ucn'uw'qenr k'g'ko r cev'qp'utgco 'y cvgt's wcrk{ 'f k'k'ew'0'K'y qwf 'j cxg'dggp'
r t'gh'g'cd'ng'q'uwf { 'c'o q'tg'ku'p'v'f 'ukg'kp'y j lej 'qpn' 'c'ukpi rg'RgppF QV'tqcf y c{ 'qt'uw'qenr k'g'
r'gu'y kj k'p'vj g'y cvgtuj gf . 'y j lej 'eqwf 'vj gp'h'c'ek'k'c'v'g'gu'cd'rkuj kpi 'ecwug/ghge'v'rkpmi'dgy ggp'
ucn'ur t'gcf 'qr gtcv'qp'cpf 'utgco 'ej nrtkf g'rgxgru0

Eqpukf g'kpi 'vj g'uj q'tv'f w'cv'qp'p'cw'g'qh'vj g'ucn'ko r cev'cpf 'vj g'm'cni'qh'eqp'k'p'w'w'utgco '
ej nrtkf g' o gcu'tgo gpv'kp' ew'tgpv'uwf { . 'k'v'ku' o q'tg'vj cp'rk'ng' 'vj cv'vj g'r gcn'ej nrtkf g'
eqpegp'vcv'qp'u'y gtg'pqv'ecr wtgf 'd{ 'qwt'ew'tgpv'uco r rkpi 'cev'k'k'kgu0Vq'tgu'k'g'vj ku'ku'w'g .
uqo g'htqo 'qh'eqp'k'p'w'w'utgco 'y cvgt's wcrk{ 'o q'p'k'q'kpi . 'cpf 'c'eqqt'f k'p'cv'qp'dgy ggp'
uco r rkpi 'cpf 'tqcf 'f g'k'kpi 'cev'k'k'kgu'p'ggf u'q'dg'gu'cd'rkuj gf 0

Ut gco 'hny 'xgm'ek'kgu'qt'f k'ej cti gu'cnuq'ko r cev'qp'vj g'gxq'w'k'p'qh'ej nrtkf g'eqpegp'vcv'qp'u'
y kj 'ko g . 'vj ku'ko r q't'v'p'v'h'ev'q't'y cu'pqv'eqpukf gtgf 0Vj ku'uwf { 'uj qy gf 'vj cv'c'o w'ej 'eqrf gt'
y k'p'v'g'kp'y j lej 'uco r ngu'cng'p'y j gp'vj g'utgco u'y gtg'htq'gp'o c{ 'pqv'r tqxkf g'tgc'up'cd'ng'
ej nrtkf g'eqpegp'vcv'qp'cu'f k'htg'gpv'hny 'f { pco leu'y gtg'cv'r r { 0Dw'vj ku'uwf { 'f k' 'pqv'cng'
uco r ngu'chgt'htq'gp'utgco u'y gtg'vj cy gf 'cpf 'eqwf 'pqv'eqo o gpv'qp'y j gvj gt'qt'pqv'vj g'ucn'
qr gtcv'qp'j cf 'c'f g'rc{ gf 'ko r cev'wpf gt'uw'ej 'c'uegp'ctkq0

Tghgt gpegu

FÈ Hqto cp . 'Tlej ctf 'VV . 'cpf 'Ncw'gp'G0Crgz'cpf gt0\$Tqcf u'cpf 'vj gkt'o clqt'geqmi kcrn'
ghge'w'0\$ 'Cp'p'w'c'n't g'x'ky 'q'h'ge'q'qi { 'cpf 'u'f'ungo c'v'ku'4; 0'3; ; : +429/4530

GÈ Rgv'tu . 'P qto cp'G0'cpf 'Lqj p'V0Vw'n0\$K'ETGCUGU'R'UQF KWO 'CP F'EJ NQT K'G'
K'VJ G'O QJ CY M'TK> . 'P GY '[QTM'HTQO 'VJ G'3; 72)U'VQ'VJ G'3; 92)U'
CVVT KDWGF " VQ" TQCF "UCNV" 30\$ 'LCY TC' 'Lqwt'p'c'n' q'h'vj g'Co g't'k'ecp'Y cvgt'
Tgu'q'w'eg'Cu'q'ek'v'qp'3906'3; ; 3+7: 8/7; : 0

Uqto y cvgt 'Cpcn\uku'cpf 'Y cvgt 'S wcrkv\ 'Cuuguuo gpv'qh'Wdcp'Ctgcu
Hkpcn'tgr qtv
Zw'Nkcpi 'gv'cr0



HÈ I qf y kp. "M0'U0"U0'F0'J chpgt."cpf "O0'H0'Dwh0'\$Nqpi /vgt0 "v gpf u"kp"uqf kwo "cpf "
ej rqtlf g"kp"vj g"O qj cy m'Tkxgt. "P gy "[qtm<vj g"ghgeV'qh'hkiv\ "{ gctu"qh'tqcf /ucn"
cr r rdecvkp0\$ "Gpxk qpo gpwcn'r qmwkqp"34604 "4225+<495/4: 30
I È I ctf pgt. "Mlkup'O0"cpf "Vqf f "X0Tq{ gt0\$GhgeV'qh'tqcf "ucn"cr r rdecvkp"qp"ugcuqpcn"
ej rqtlf g"eqpegpvcvkpu"cpf "vzlek\ "kp"uqwj /egpvcn'kp kpc"utgco u0\$ "Lqwtpcn'qh'
gpxk qpo gpwcn's wcrkv\ "5; 5 "4232+<3258/32640
Í È Eqtuk "Ugxgp'T0"gv'cr0\$C "hgij "mqm'cv'tqcf "ucn<cs wcvle"vzlek\ "cpf "y cvgt/s wcrkv\ "
ko rcew" qp" mcecn" tgi kqpcn" cpf " pcvkqpcn' uecgu0\$ " Gpxk qpo gpwcn' uekgpeg" ("
vgej pqmji { "660; "4232+<9598/95: 40