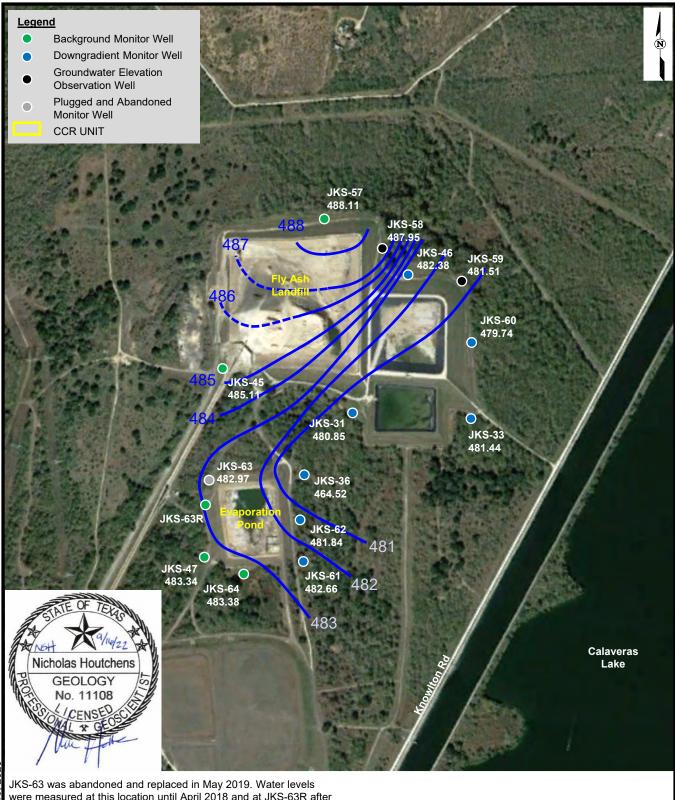


www.erm.com Version: 1.0 Project No.: 0681818 Client: CPS Energy August 18, 2023

FLY ASH LANDFILL



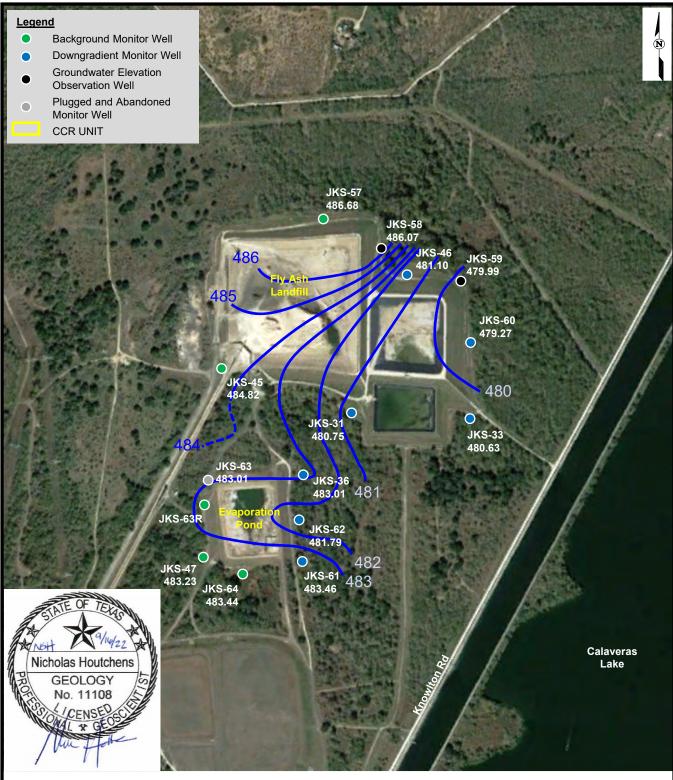
were measured at this location until April 2018 and at JKS-63R after August 2019.

Potentiometric surface contour interval is 1 foot.

Texas Registered Engineering Firm F-2393 Texas Board of Professional Geoscientist Firm 50036



POTENTIOMETRIC SURFACE MAP - May 2017 Fly Ash Landfill CCR Unit **CPS Energy – Calaveras Power Station** San Antonio, Texas



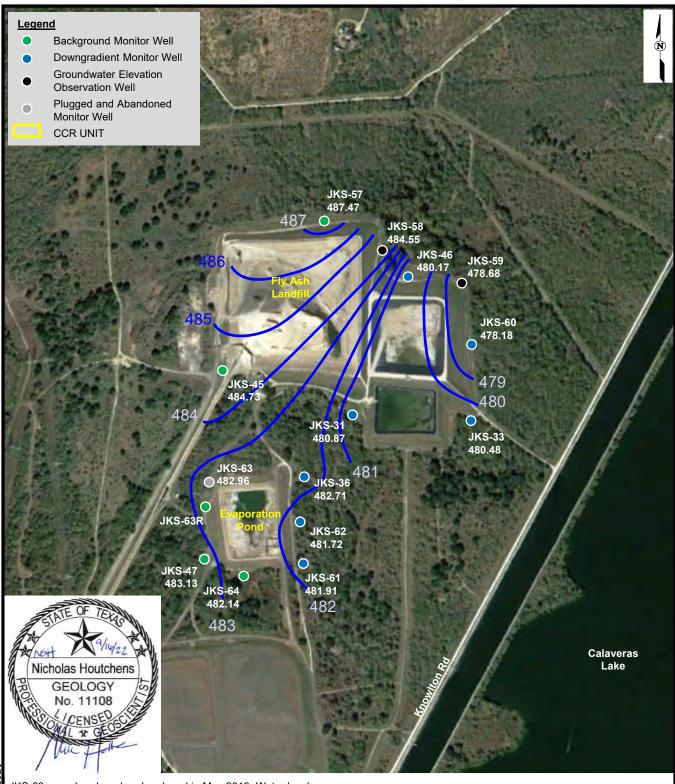
JKS-63 was abandoned and replaced in May 2019. Water levels were measured at this location until April 2018 and at JKS-63R after August 2019.

Potentiometric surface contour interval is 1 foot.

Texas Registered Engineering Firm F-2393 Texas Board of Professional Geoscientist Firm 50036



POTENTIOMETRIC SURFACE MAP – June 2017 Fly Ash Landfill CCR Unit CPS Energy – Calaveras Power Station San Antonio, Texas



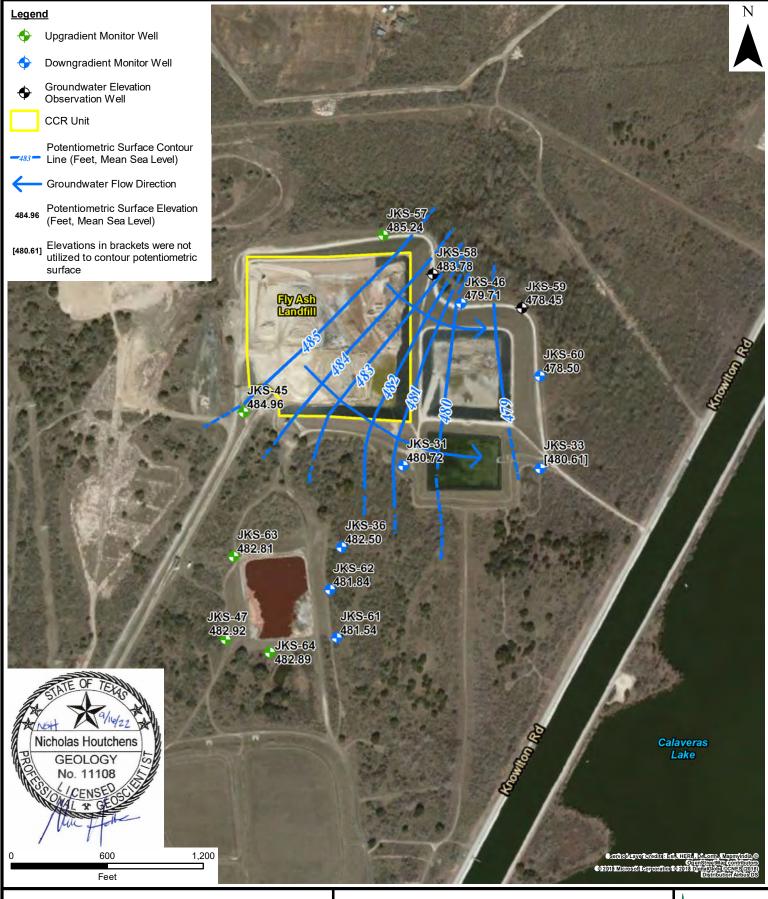
JKS-63 was abandoned and replaced in May 2019. Water levels were measured at this location until April 2018 and at JKS-63R after August 2019.

Potentiometric surface contour interval is 1 foot.

Texas Registered Engineering Firm F-2393 Texas Board of Professional Geoscientist Firm 50036



POTENTIOMETRIC SURFACE MAP – August 2017
Fly Ash Landfill CCR Unit
CPS Energy – Calaveras Power Station
San Antonio, Texas



DESIGN: NH DRAWN: EFC CHKD.: WZ

DATE: 1/10/2018 SCALE: AS SHOWN REVISION: 1
P;Projectsi0337367 CPS Energy CCR GW Investigation.WZIEight Background Sampling Events/GIS/MXDI2017_CARL
0337367_CPSCalv_pmaph_FlyAshLFill_oct2017.mxd

POTENTIOMETRIC SURFACE MAP OCTOBER 2017
Fly Ash Landfill CCR Unit
CPS Energy - Calaveras Power Station
San Antonio, Texas





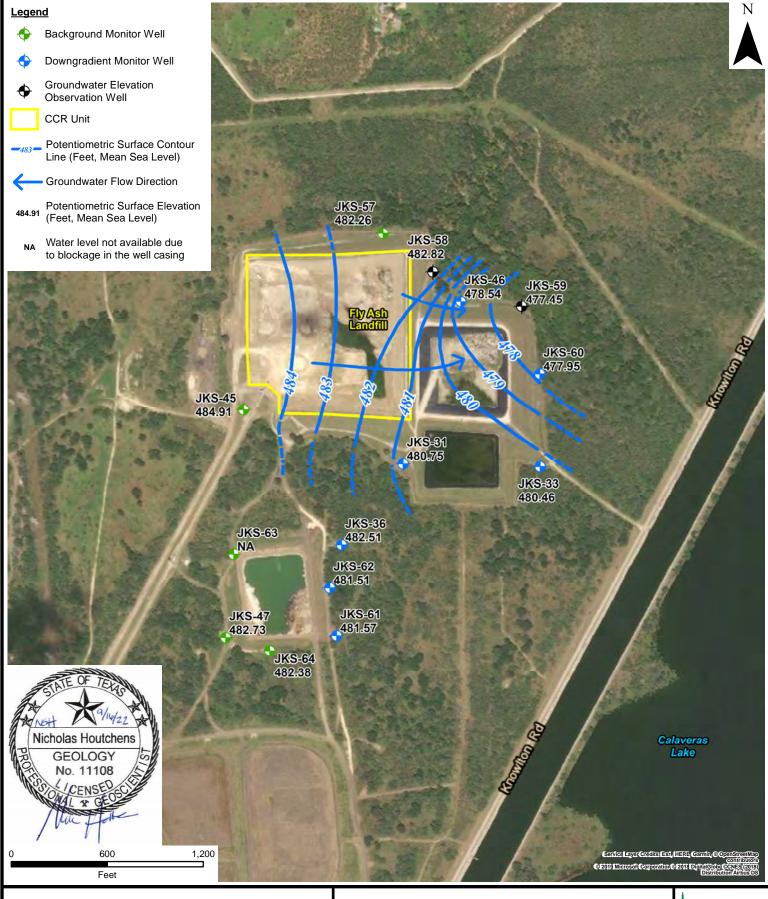
JKS-63 was abandoned and replaced in May 2019. Water levels were measured at this location until April 2018 and at JKS-63R after August 2019.

Potentiometric surface contour interval is 1 foot.

Texas Registered Engineering Firm F-2393 Texas Board of Professional Geoscientist Firm 50036



POTENTIOMETRIC SURFACE MAP – April 2018 Fly Ash Landfill CCR Unit CPS Energy – Calaveras Power Station San Antonio, Texas



 DESIGN:
 NH
 DRAWN:
 EFC
 CHKD.:
 WZ

 DATE:
 1/14/2019
 SCALE:
 AS SHOWN
 REVISION:
 1

 P:\Projects\0337367 CPSCalv_pmapN_FlyAshErili_oct2018.mxd
 cet2018.mxd
 FlyAshErili_oct2018.mxd
 cet2018.mxd

POTENTIOMETRIC SURFACE MAP OCTOBER 2018
Fly Ash Landfill CCR Unit
CPS Energy - Calaveras Power Station
San Antonio, Texas





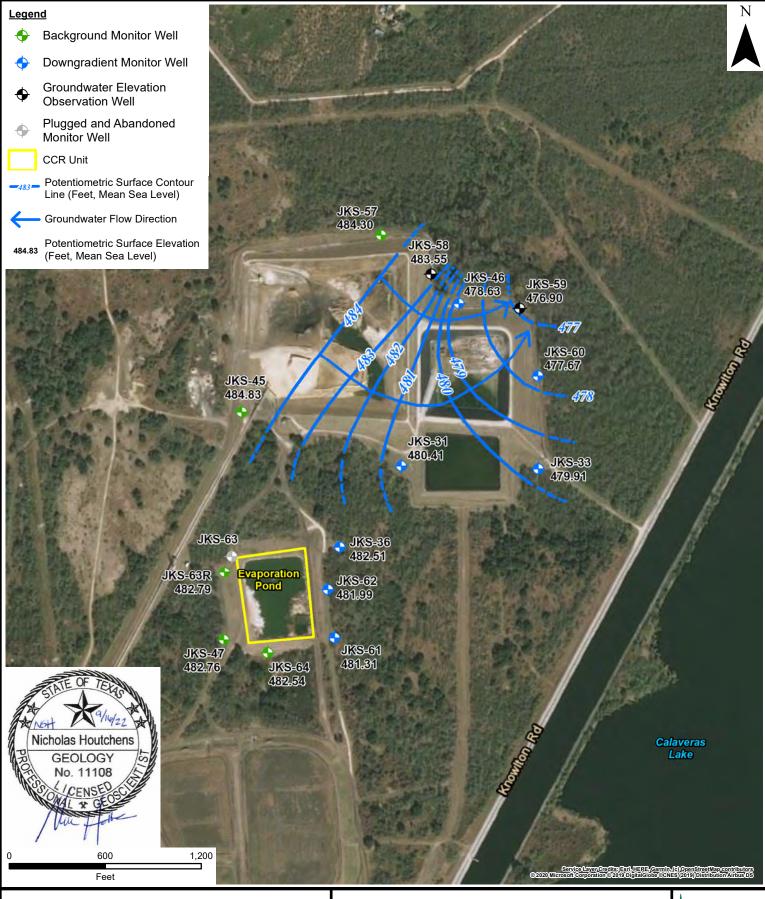
JKS-63 was abandoned and replaced in May 2019. Water levels were measured at this location until April 2018 and at JKS-63R after August 2019.

Potentiometric surface contour interval is 1 foot.

Texas Registered Engineering Firm F-2393 Texas Board of Professional Geoscientist Firm 50036



POTENTIOMETRIC SURFACE MAP – April 2019 Fly Ash Landfill CCR Unit CPS Energy – Calaveras Power Station San Antonio, Texas



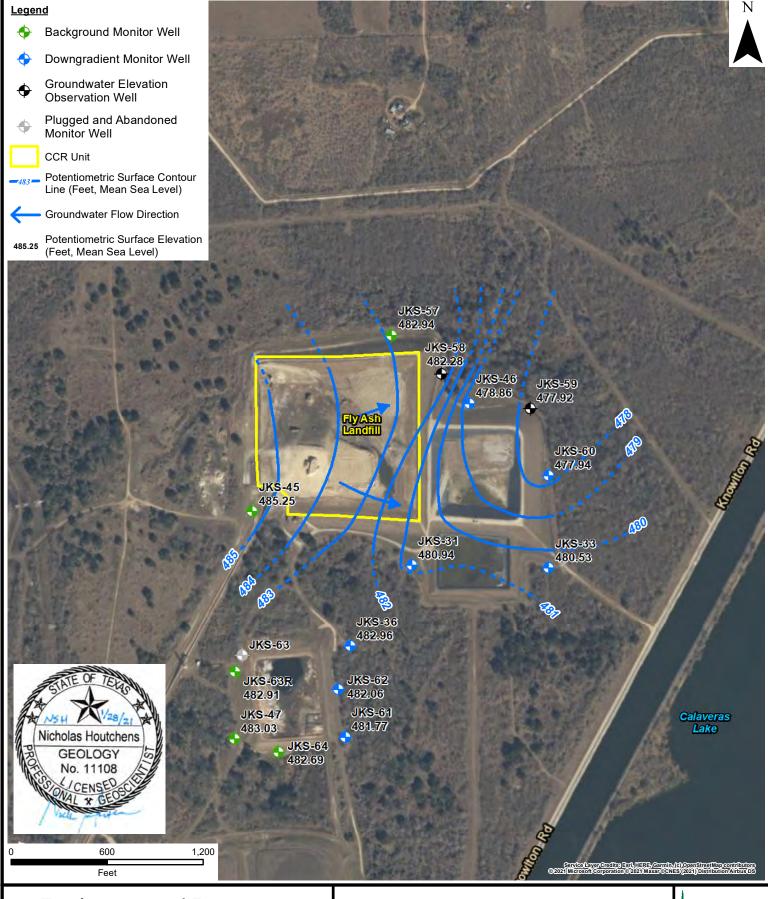
 DESIGN:
 NH
 DRAWN:
 EFC
 CHKD.:
 WZ

 DATE:
 1/15/2020
 SCALE:
 AS SHOWN
 REVISION:
 0

 \(\text{\text{Wshouts01\text{\text{Uslous}Projects\050503422}\) CPS Energy Calaveras 2019 CCR Tasks \(\text{\text{\text{\text{WZ}(GIS CADIMXD\02019awmonly)}}\)

POTENTIOMETRIC SURFACE MAP OCTOBER 2019
Fly Ash Landfill CCR Unit
CPS Energy - Calaveras Power Station
San Antonio, Texas





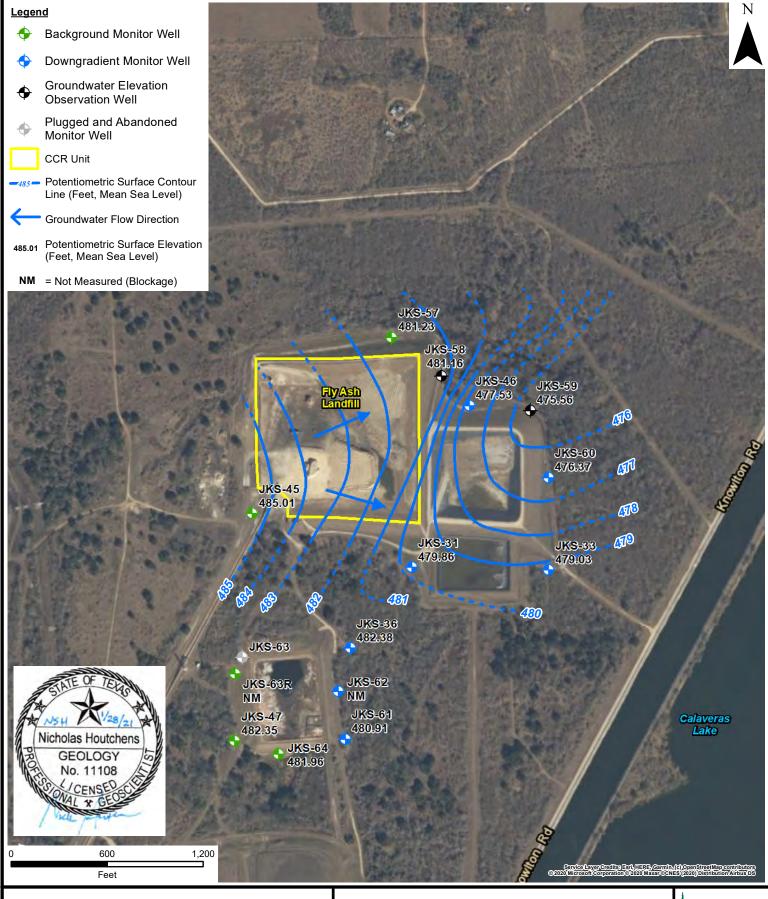
 DESIGN:
 NH
 DRAWN:
 LSC
 CHKD.:
 WZ

 DATE:
 1/22/2021
 SCALE:
 AS SHOWN
 REVISION:
 2

 WUSBDCFS02/DatalHoustonl/Projects/0503422 CPS Calv. FlyAsh. apr/2020/pmapRev.mxd
 Revision:
 CADMXD102020gwmonl

POTENTIOMETRIC SURFACE MAP -APRIL 2020 Fly Ash Landfill CCR Unit CPS Energy - Calaveras Power Station San Antonio, Texas





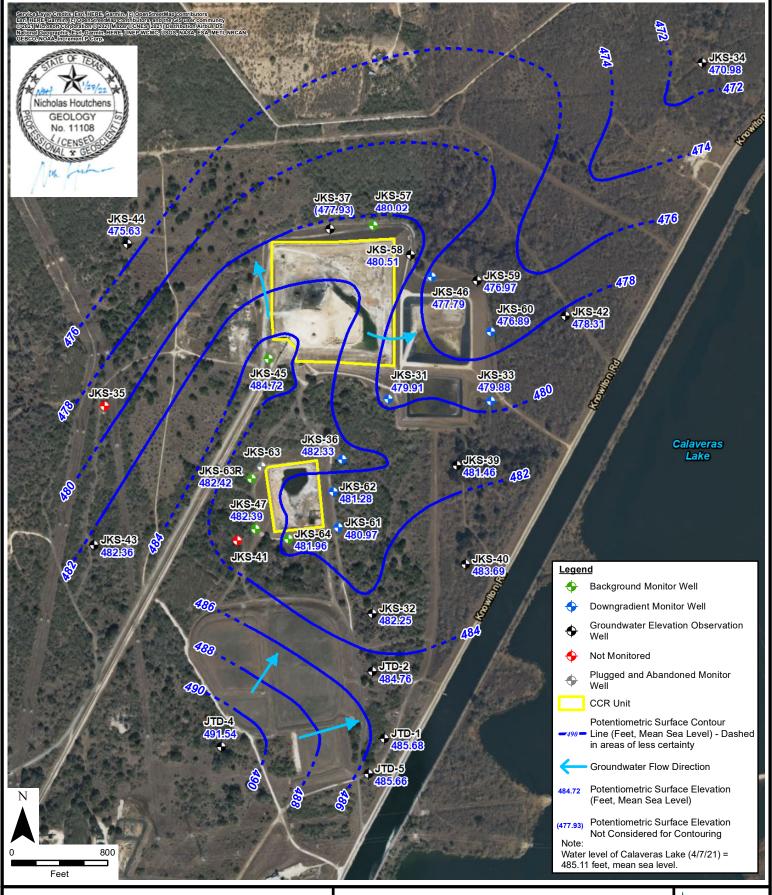
 DESIGN:
 NH
 DRAWN:
 LSC
 CHKD.:
 WZ

 DATE:
 1/22/2021
 SCALE:
 AS SHOWN
 REVISION:
 2

 USBDCFS02IDatalHouston|Projects/0503422 CPS Calv_FlyAsh_oci2020pmapREV.mxd
 CPS Calv_FlyAsh_oci2020pmapREV.mxd

POTENTIOMETRIC SURFACE MAP OCTOBER 2020
Fly Ash Landfill CCR Unit
CPS Energy - Calaveras Power Station
San Antonio, Texas



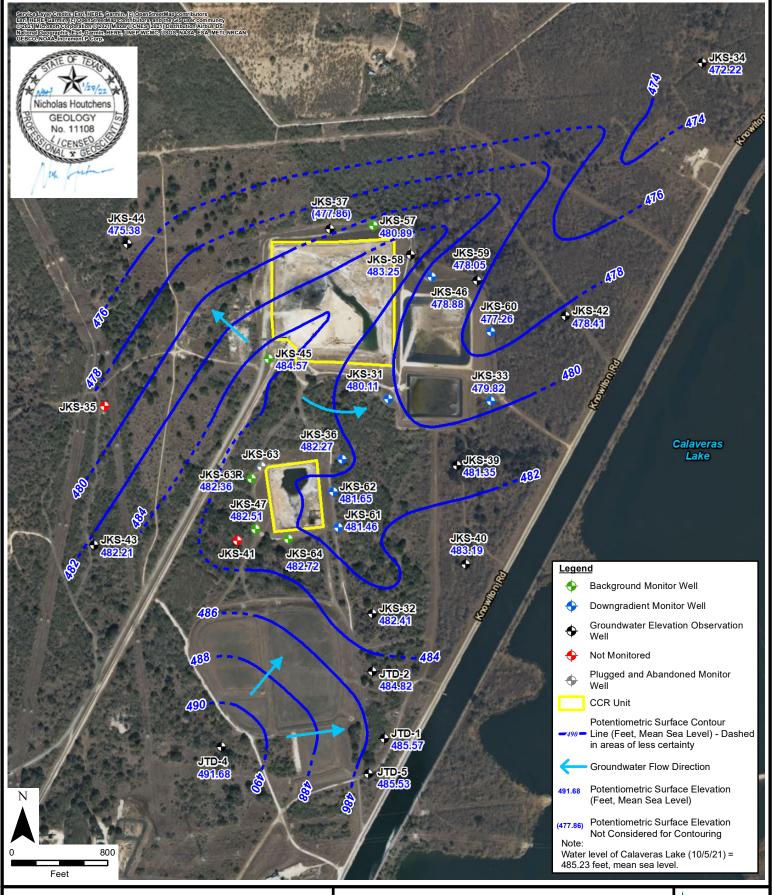


 DESIGN:
 NH
 DRAWN:
 LSC
 CHKD.:
 WZ

 DATE:
 1/7/2022
 SCALE:
 AS SHOWN
 REVISION:
 1

POTENTIOMETRIC SURFACE MAP APRIL 2021
Northern CCR Units
CPS Energy - Calaveras Power Station
San Antonio, Texas





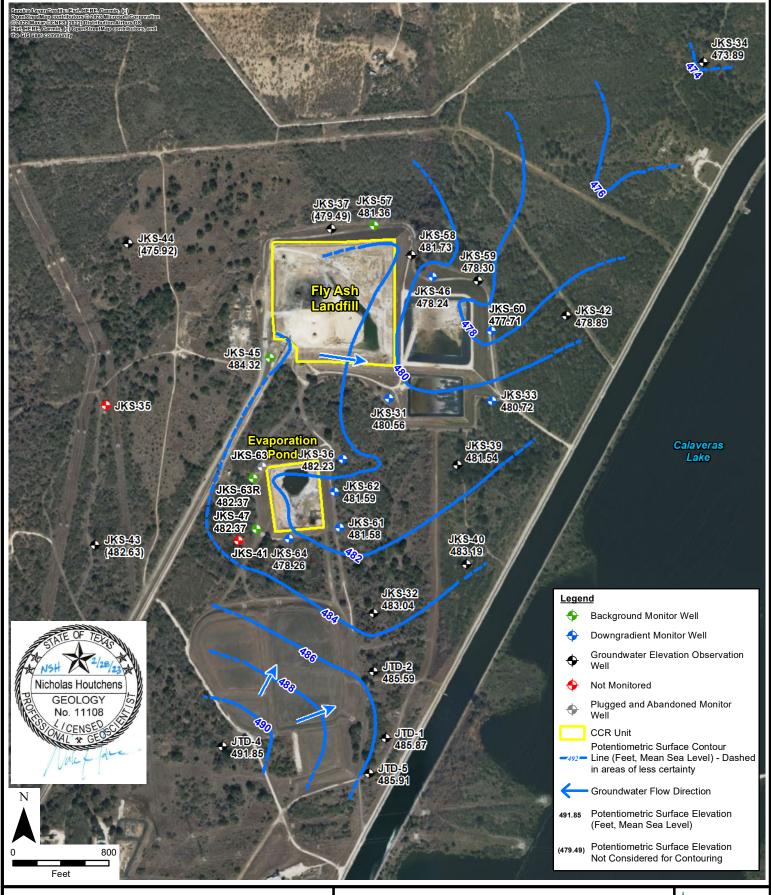
 DESIGN:
 NH
 DRAWN:
 LSC
 CHKD.:
 WZ

 DATE:
 1/7/2022
 SCALE:
 AS SHOWN
 REVISION:
 1

 \(\USBDCFS02\Data\)Houston\\(\text{Projects}\)0503422 CPS Energy Calaveras 2019 CCR Tasks. \(\USC)X\)GIS_CAD\(\USC)X\(\USC)\)DIMXD\(\USC)202\(\upsigname\)DIMXD\(\USC)202\(\upsigname\)DIMXD\(\USC)202\(\upsigname\)DIMXD\(\USC)202\(\upsigname\)DIMXD\(\USC)202\(\uppigname\)DIMXD\(\USC)202\(\uppigname\)DIMXD\(\USC)202\(\uppigname\)DIMXD\(\USC)202\(\uppigname\)DIMXD\(\uppigname\\\uppigname\)DIMXD\(\uppigname\)DIMXD\(\uppigname\\\uppign

POTENTIOMETRIC SURFACE MAP OCTOBER 2021
Northern CCR Units
CPS Energy - Calaveras Power Station
San Antonio, Texas





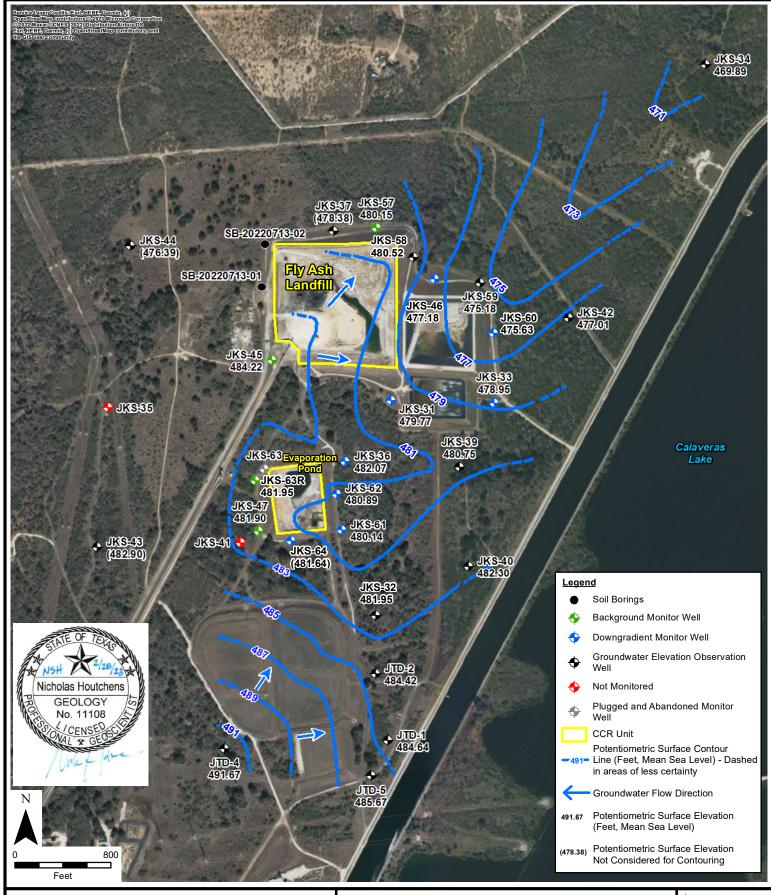
 DESIGN:
 NH
 DRAWN:
 LM
 CHKD.:
 WZ

 DATE:
 06/02/2023
 SCALE:
 AS SHOWN
 REVISION:
 0

April 2022
Northern CCR Units
CPS Energy - Calaveras Power Station
San Antonio, Texas

POTENTIOMETRIC SURFACE MAP -





 DESIGN:
 NH
 DRAWN:
 LM
 CHKD.:
 WZ

 DATE:
 14/02/2023
 SCALE:
 AS SHOWN
 REVISION:
 0

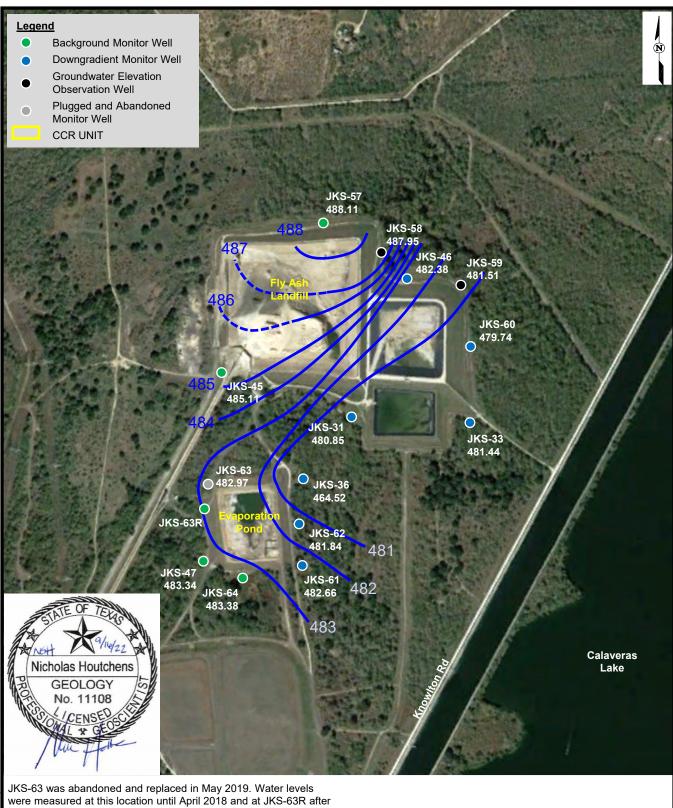
 \(\USBDCFS02\)Data\(\text{Houston\(\text{Projects\(\text{\(\text{USIOS}\)}\)Display=222yw
 Calaveras 2019 CCR Tasks. \(\text{\(\text{\(\text{UZ\(\text{\(\text{\(\text{CAL\(\text{\\chin\cm{\(\text{\\cxi\chin\cm{\(\text{\(\text{\(\text{\(\text{\(\text{\(\text{\(\text{\(\text{\(\text{\\text{\\text{\(\text{\(\text{\\text{\(\text{\(\text{\\\\\text{\\text{\\texi\\ta\cs\\\\\\\\\\\\\\\\\\\x\cti\chi\tex{\(\text{\\xi\cin\exi{\\texi

Texas Registered Engineering Firm F-2393
Texas Board of Professional Geoscientist Firm 50036

POTENTIOMETRIC SURFACE MAP October 2022
Northern CCR Units
CPS Energy - Calaveras Power Station
San Antonio, Texas



EVAPORATION POND



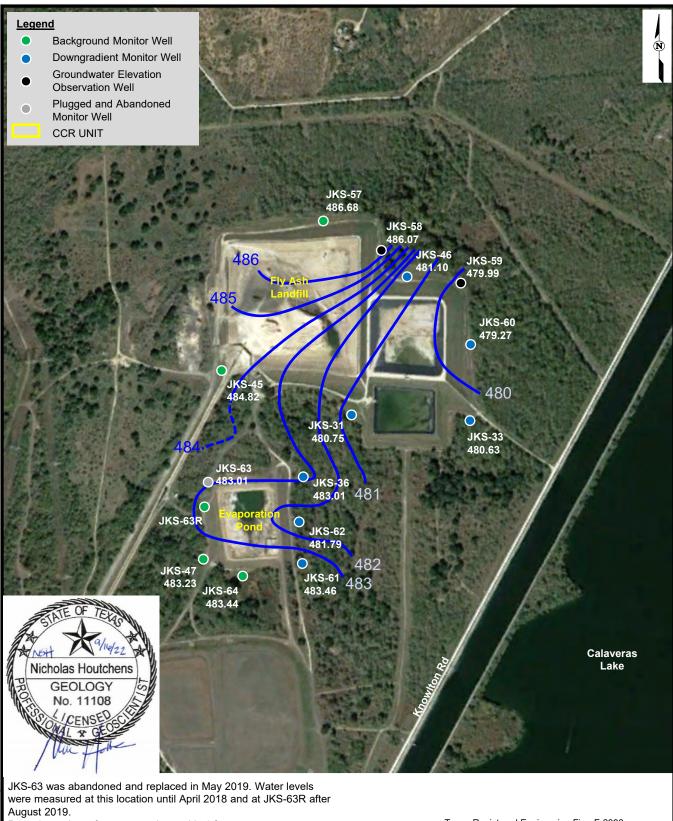
August 2019.

Potentiometric surface contour interval is 1 foot.

Texas Registered Engineering Firm F-2393 Texas Board of Professional Geoscientist Firm 50036



POTENTIOMETRIC SURFACE MAP - May 2017 **Evaporation Pond CCR Unit CPS Energy – Calaveras Power Station** San Antonio, Texas

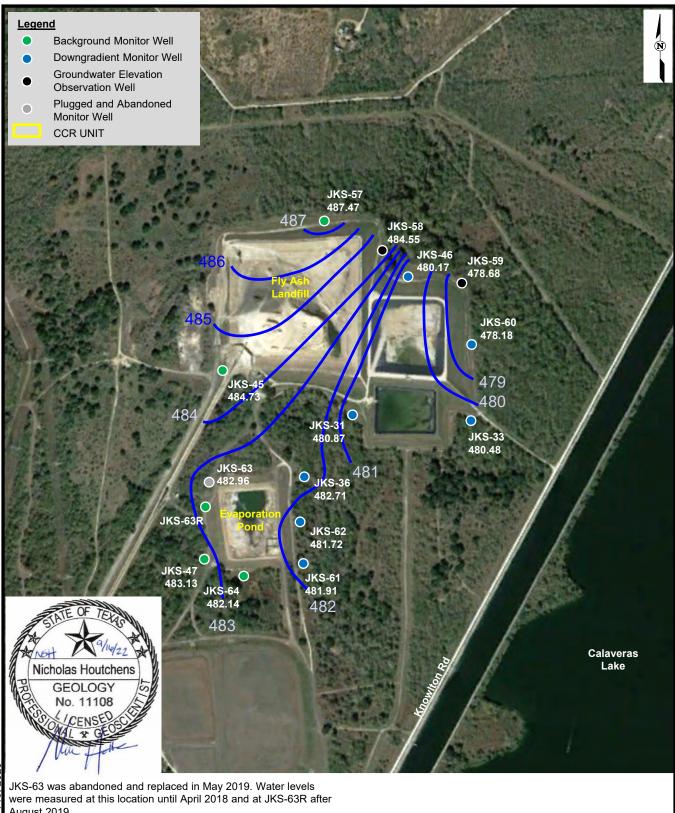


Potentiometric surface contour interval is 1 foot.

Texas Registered Engineering Firm F-2393 Texas Board of Professional Geoscientist Firm 50036



POTENTIOMETRIC SURFACE MAP – June 2017 Evaporation Pond CCR Unit CPS Energy – Calaveras Power Station San Antonio, Texas



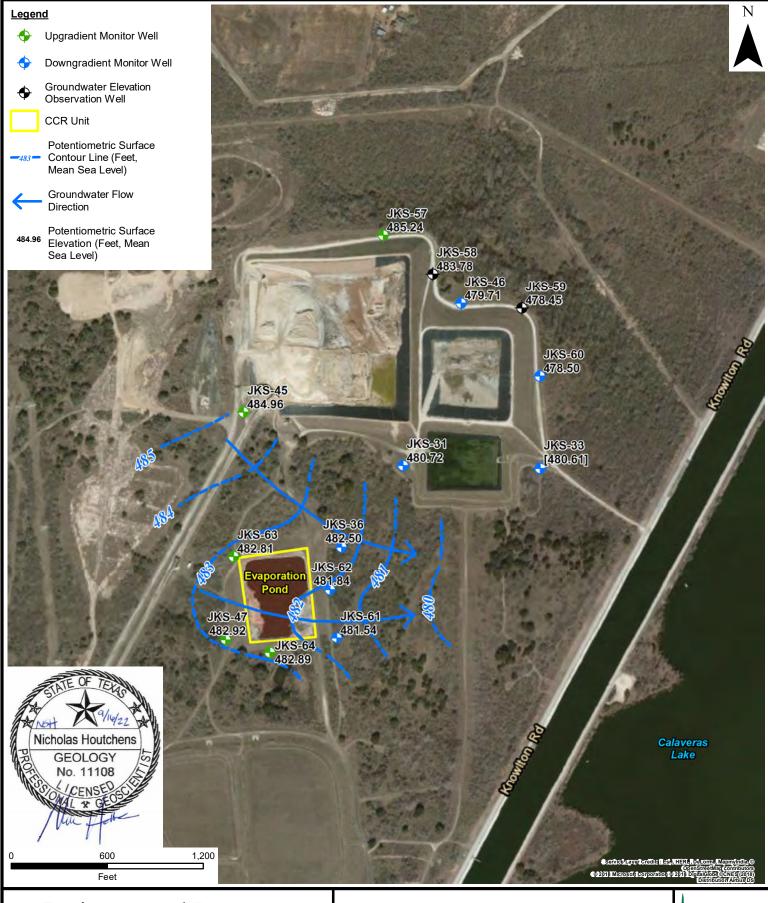
August 2019.

Potentiometric surface contour interval is 1 foot.

Texas Registered Engineering Firm F-2393 Texas Board of Professional Geoscientist Firm 50036



POTENTIOMETRIC SURFACE MAP - August 2017 Evaporation Pond CCR Unit CPS Energy – Calaveras Power Station San Antonio, Texas



 DESIGN:
 NH
 DRAWN:
 EFC
 CHKD.:
 WZ

 DATE:
 1/10/2018
 SCALE:
 AS SHOWN
 REVISION:
 1

 P:Projects\0337367 CPS Energy CCR GW Investigation:
 WZ\Eight Background Sampling Events\GS\MXD\2017_CAR\0337367_CPSCalv_pmaph_EvapPond_oct2017_mxd

POTENTIOMETRIC SURFACE MAP OCTOBER 2017
Evaporation Pond CCR Unit
CPS Energy - Calaveras Power Station
San Antonio, Texas





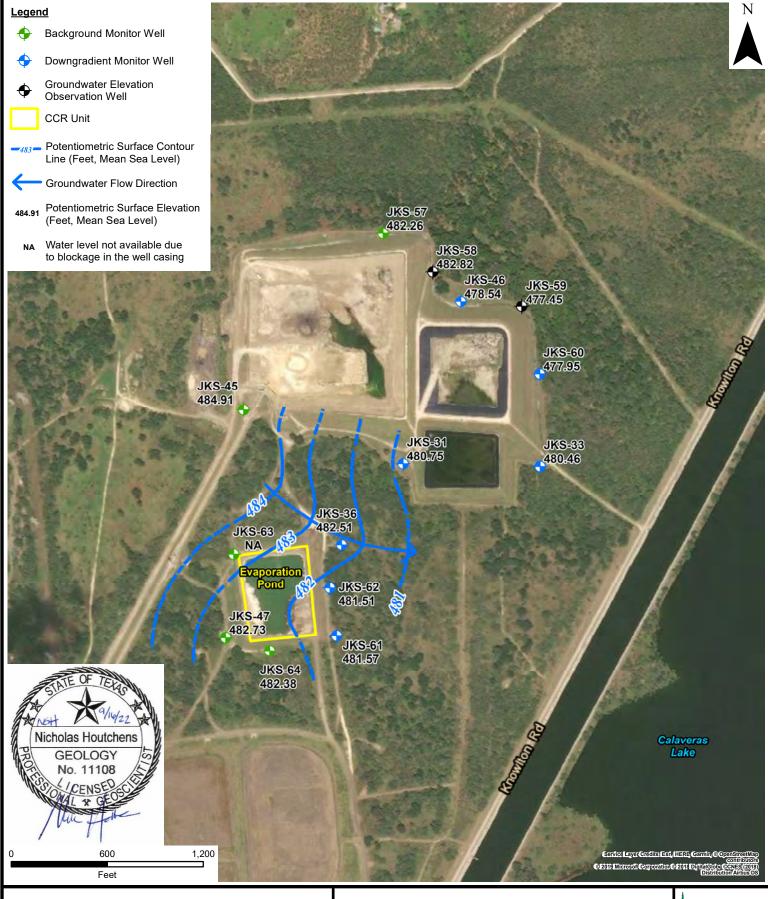
 DESIGN:
 NH
 DRAWN:
 AJB
 CHKD.:
 WZ

 DATE:
 10/14/2020
 SCALE:
 AS SHOWN
 REVISION:
 0

 llusbddx02/DataHoustoniProjects/0203422 CPS Energy Calaveras 2019 CCR Tasks.WZJGIS_CAD/MXDI2018gwmonl
 AJB
 CHKD.:
 WZ

POTENTIOMETRIC SURFACE MAP APRIL 2018
Evaporation Pond CCR Unit
CPS Energy - Calaveras Power Station
San Antonio, Texas





 DESIGN:
 NH
 DRAWN:
 EFC
 CHKD.:
 WZ

 DATE:
 1/14/2019
 SCALE:
 AS SHOWN
 REVISION:
 1

 P:\Projects\(0337367\) CPSCalv. pmapN_EvapPond_ocd2018.mxd
 wzcystanta
 PmapN_EvapPond_ocd2018.mxd
 vertextanta
 vertextanta

POTENTIOMETRIC SURFACE MAP OCTOBER 2018
Evaporation Pond CCR Unit
CPS Energy - Calaveras Power Station
San Antonio, Texas





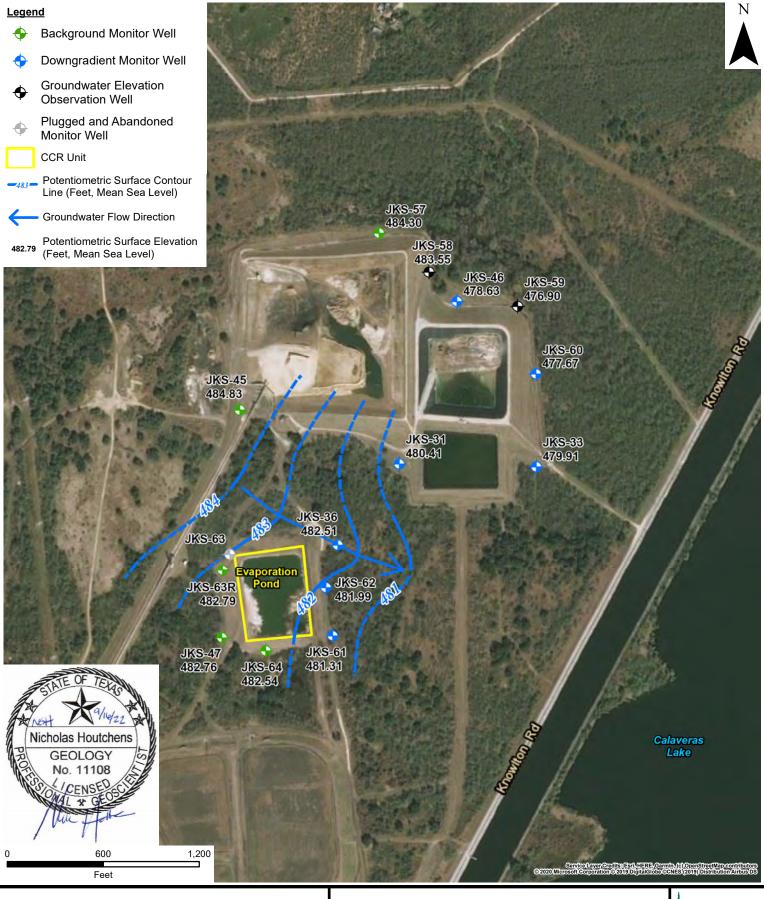
 DESIGN:
 NH
 DRAWN:
 AJB
 CHKD.:
 WZ

 DATE:
 10/13/2020
 SCALE:
 AS SHOWN
 REVISION:
 0

 Nusbdcb02/Data/HoustoniProjects/0503422 CPS Energy Calaveras 2019 CCR Tasks.WZGIS_CAD/MXDI2019gwmonl
 CAD/MXDI2019gwmonl

POTENTIOMETRIC SURFACE MAP APRIL 2019
Evaporation Pond CCR Unit
CPS Energy - Calaveras Power Station
San Antonio, Texas





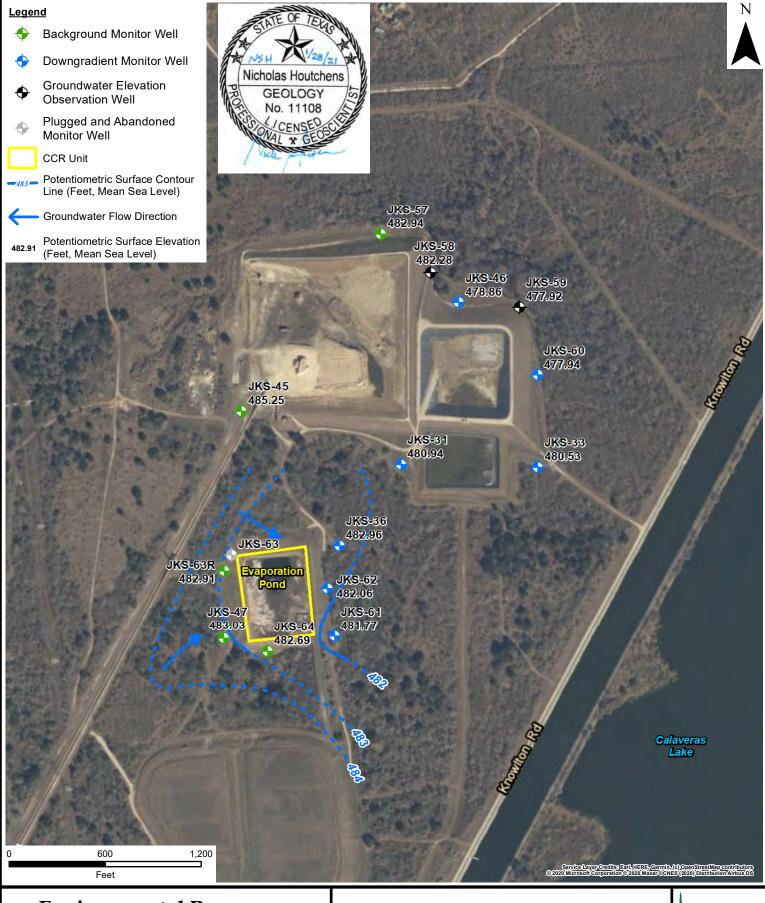
 DESIGN:
 NH
 DRAWN:
 EFC
 CHKD.:
 WZ

 DATE:
 1/15/2020
 SCALE:
 AS SHOWN
 REVISION:
 0

 Nushouls01\DataHouslon\Projects\0503422
 CPS Energy Calaveras 2019 CCR Tasks.WZ\GIS_CADIMXD\02019gwmon\

POTENTIOMETRIC SURFACE MAP OCTOBER 2019
Evaporation Pond CCR Unit
CPS Energy - Calaveras Power Station
San Antonio, Texas





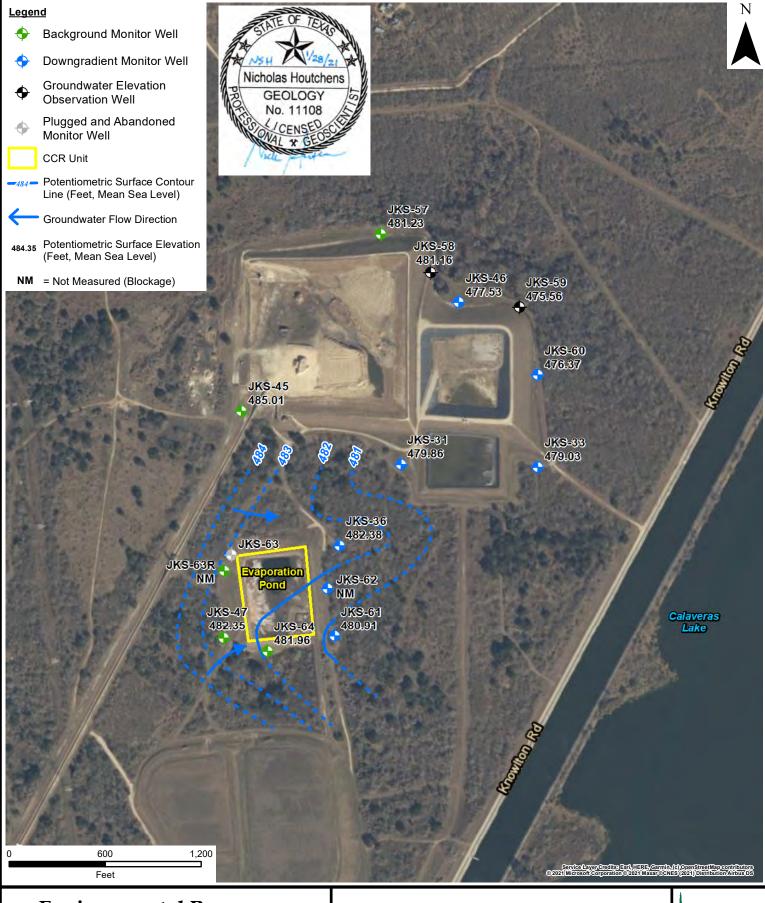
 DESIGN:
 NH
 DRAWN:
 LSC
 CHKD.:
 WZ

 DATE:
 1/22/2021
 SCALE:
 AS SHOWN
 REVISION:
 1

 \userbor{\text{S02}\text{Data} \text{Houston|Projects|0503422} CPS Energy Calaveras 2019 CCR Tasks. \u2018 CGS [CAD\u00fcNXD\u00e40202\u00fcqwmon\u00e4n]
 1

POTENTIOMETRIC SURFACE MAP APRIL 2020
Evaporation Pond CCR Unit
CPS Energy - Calaveras Power Station
San Antonio, Texas





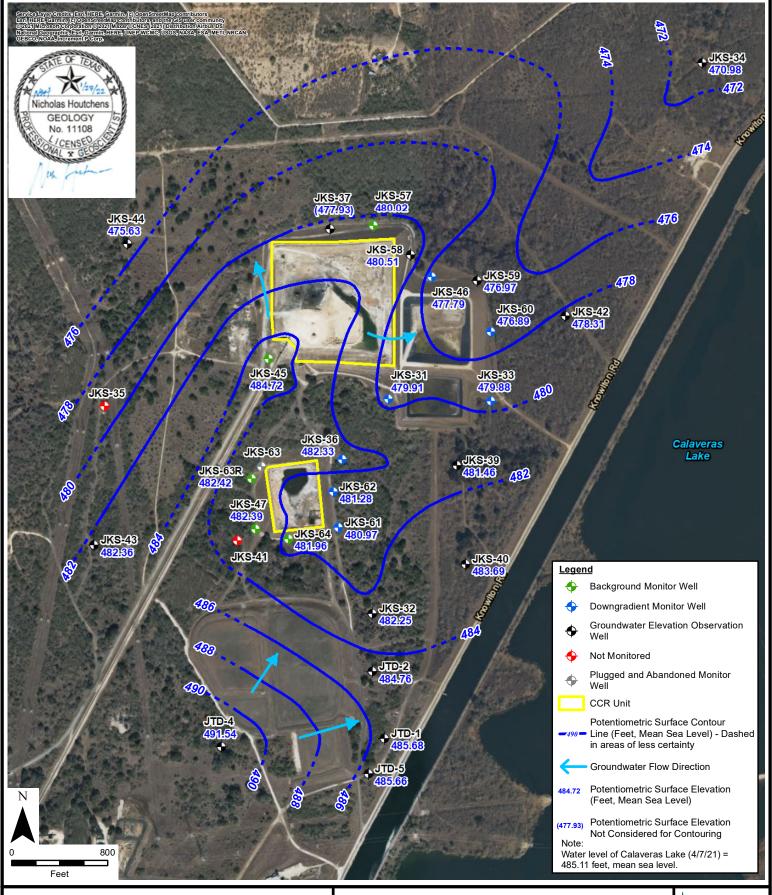
 DESIGN:
 NH
 DRAWN:
 LSC
 CHKD.:
 WZ

 DATE:
 1/22/2021
 SCALE:
 AS SHOWN
 REVISION:
 3

 IUSBDCF502/DatalHouston/Projects/0503422 CPS Calvey EvapPond. odd202/pmapRev.mxd
 2019 CCR Tasks. WZ/IGIS_CAD/WXD/2020gwmon/ fig28_0503422_CPS Calvey EvapPond. odd202/pmapRev.mxd

POTENTIOMETRIC SURFACE MAP OCTOBER 2020
Evaporation Pond CCR Unit
CPS Energy - Calaveras Power Station
San Antonio, Texas





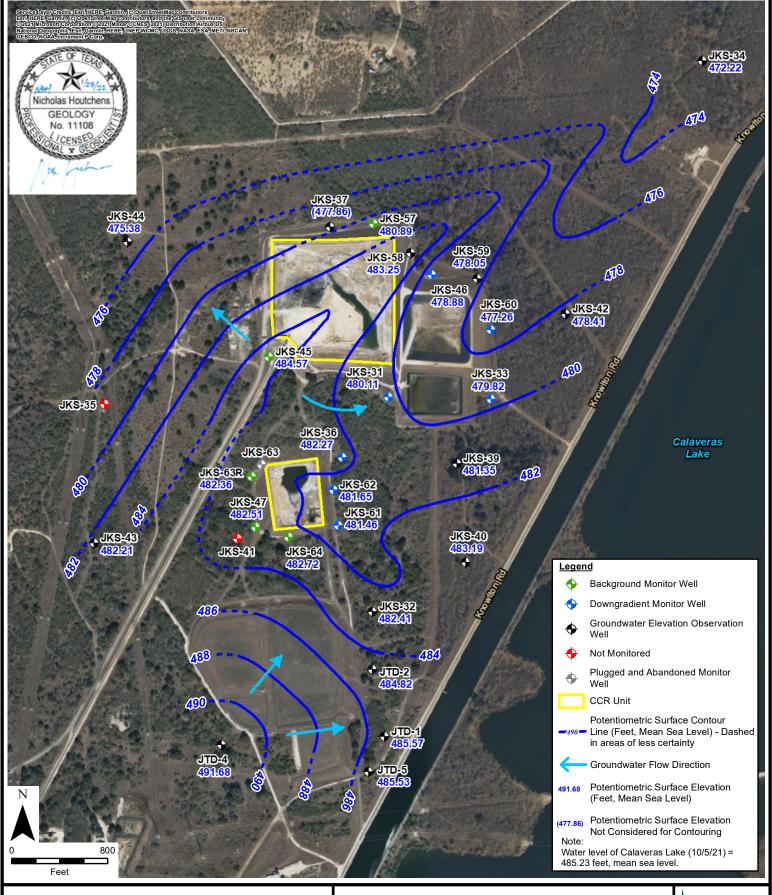
 DESIGN:
 NH
 DRAWN:
 LSC
 CHKD.:
 WZ

 DATE:
 1/7/2022
 SCALE:
 AS SHOWN
 REVISION:
 1

 \(\USBDCF\)502\(\Delta\)103H0\(\Delta\)105I007\(\Delta\)22 CPS Energy Calaveras 2019 CCR Tasks. \(\US\)2CIGIS_CAD\(\Delta\)XD\(\Delta\)2021gwmo

POTENTIOMETRIC SURFACE MAP APRIL 2021
Northern CCR Units
CPS Energy - Calaveras Power Station
San Antonio, Texas





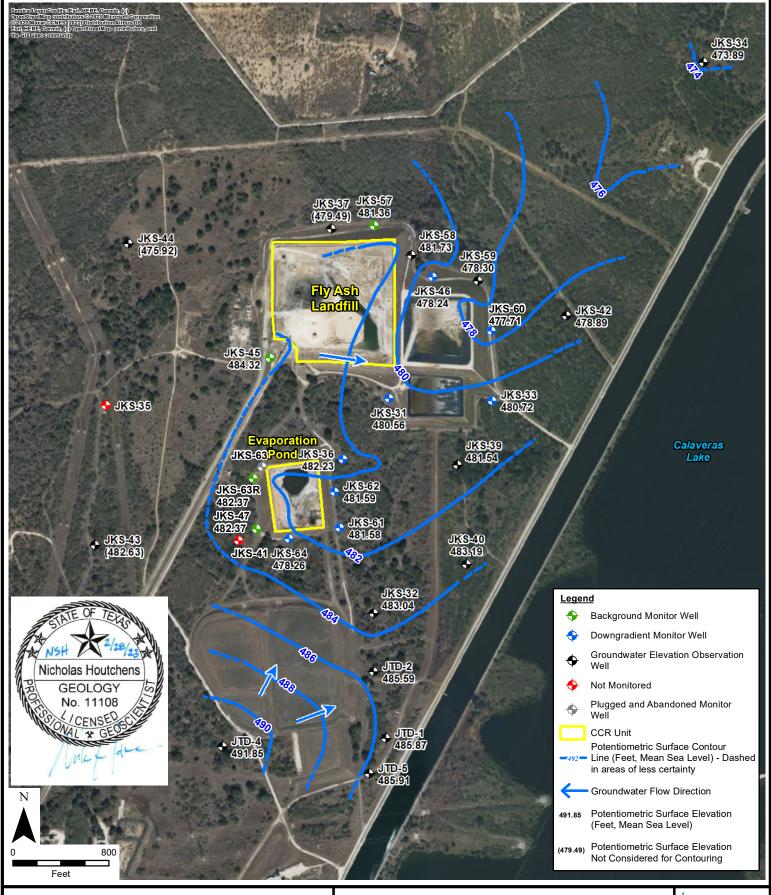
 DESIGN:
 NH
 DRAWN:
 LSC
 CHKD.:
 WZ

 DATE:
 1/7/2022
 SCALE:
 AS SHOWN
 REVISION:
 1

 \(\USBDCFS02\Data\)Houston\(\text{Projects}\)0503422 CPS Energy Calaveras 2019 CCR Tasks. \(\USBC\)SGIS_CAD\(\USBC\)MXD\(\USBC\)2021gwmo

POTENTIOMETRIC SURFACE MAP OCTOBER 2021
Northern CCR Units
CPS Energy - Calaveras Power Station
San Antonio, Texas



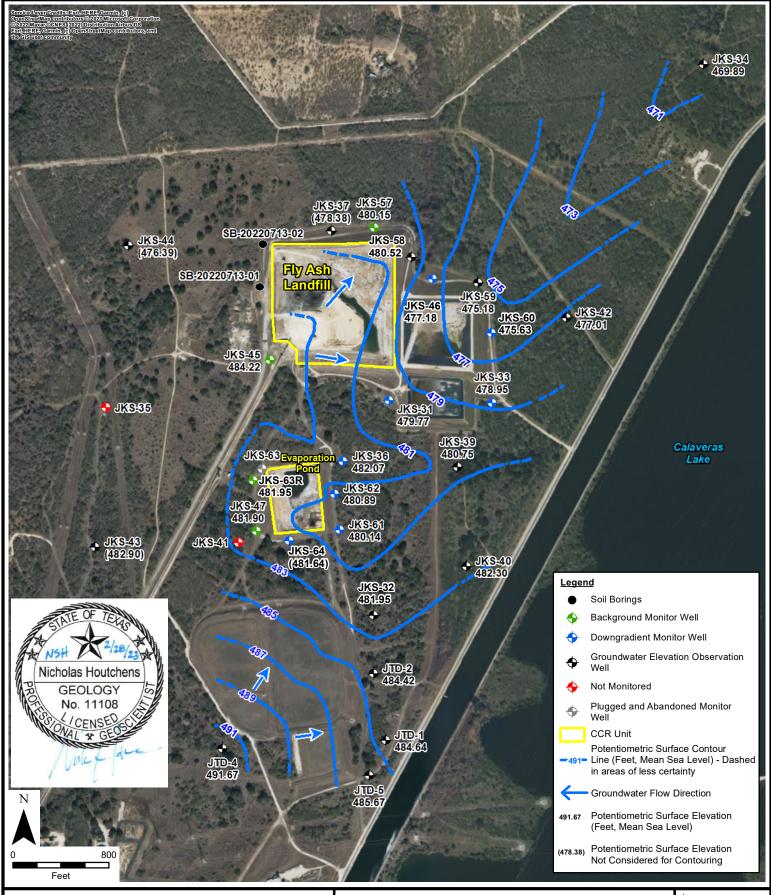


 DESIGN:
 NH
 DRAWN:
 LM
 CHKD.:
 WZ

 DATE:
 06/02/2023
 SCALE:
 AS SHOWN
 REVISION:
 0

POTENTIOMETRIC SURFACE MAP April 2022
Northern CCR Units
CPS Energy - Calaveras Power Station
San Antonio, Texas





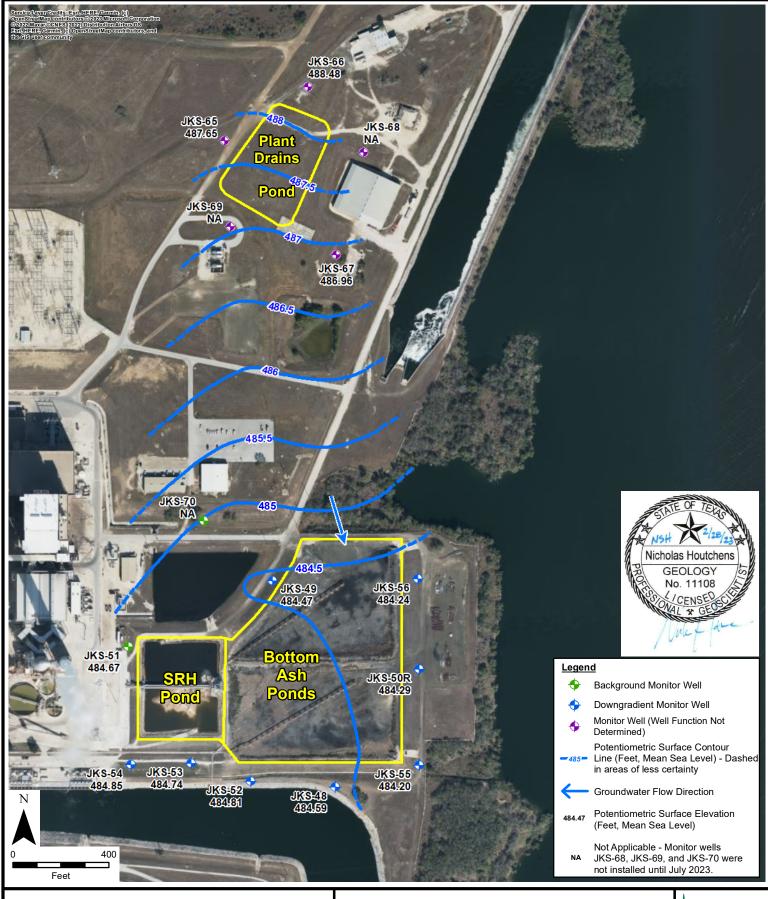
 DESIGN:
 NH
 DRAWN:
 LM
 CHKD.:
 WZ

 DATE:
 14/02/2023
 SCALE:
 AS SHOWN
 REVISION:
 0

POTENTIOMETRIC SURFACE MAP October 2022
Northern CCR Units
CPS Energy - Calaveras Power Station
San Antonio, Texas



PLANT DRAINS POND



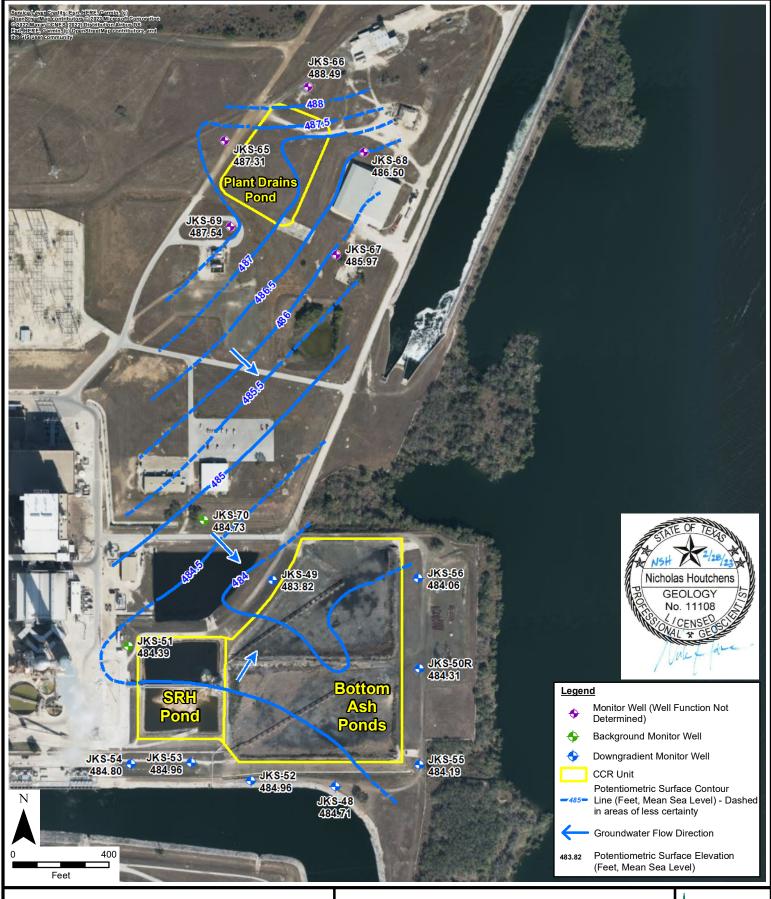
 DESIGN:
 NH
 DRAWN:
 LM
 CHKD.:
 WZ

 DATE:
 06/02/2023
 SCALE:
 AS SHOWN
 REVISION:
 0

 \(\USBDCF502\)Data\(\USBDCF502\)Data\(\USbDCF502\)Data\(\USBDCF502\

POTENTIOMETRIC SURFACE MAP April 2022
Central and Southern CCR Units CPS
Energy - Calaveras Power Station San
Antonio, Texas





 DESIGN:
 NH
 DRAWN:
 LM
 CHKD.:
 WZ

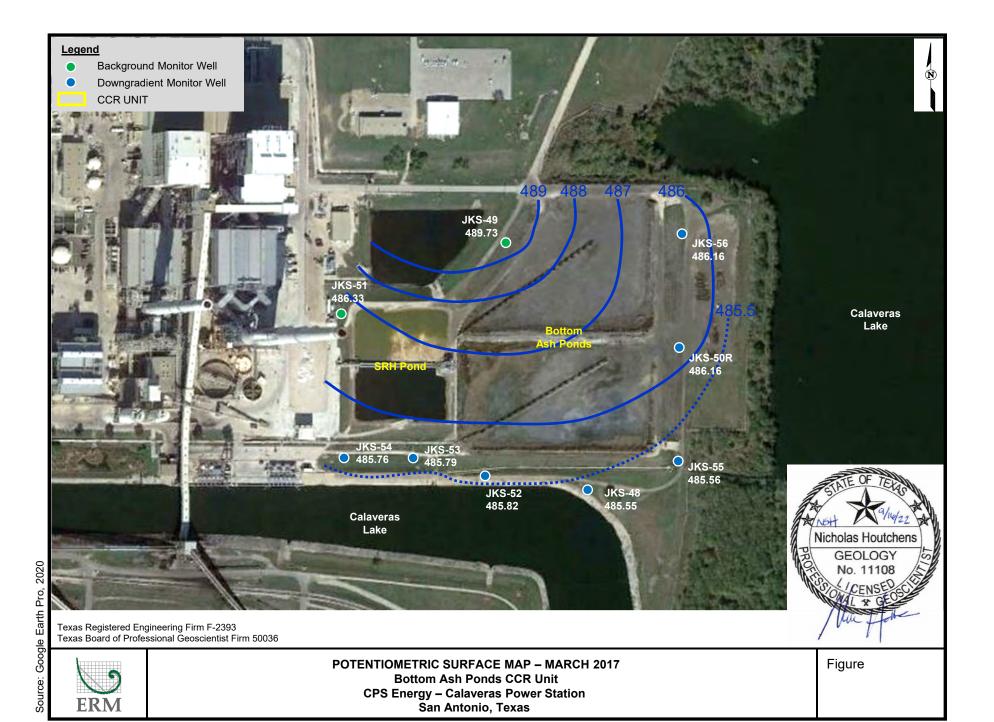
 DATE:
 07/02/2023
 SCALE:
 AS SHOWN
 REVISION:
 0

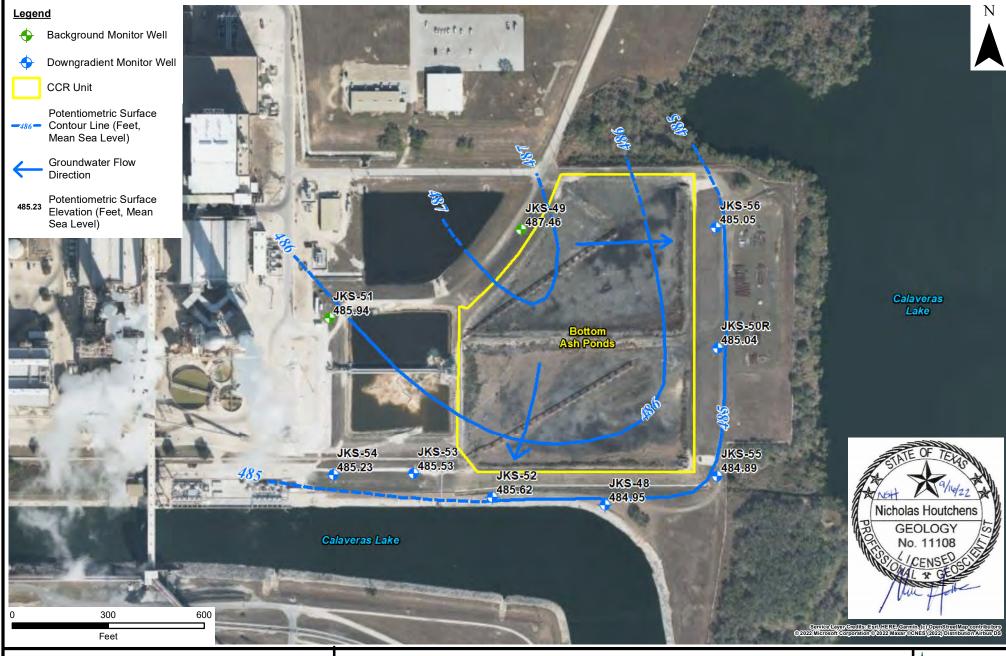
 WUSBDCFS02\DataHouston\Projects\0503422
 PS Energy
 Calaveras 2019 CCR Tasks. WZ\GIS_CAD\MXD\2022gwmoFig28 0636109
 CCR SouthernPot Oct2022.mxd

POTENTIOMETRIC SURFACE MAP October 2022
Central and Southern CCR Units CPS
Energy - Calaveras Power Station San
Antonio, Texas



BOTTOM ASH PONDS





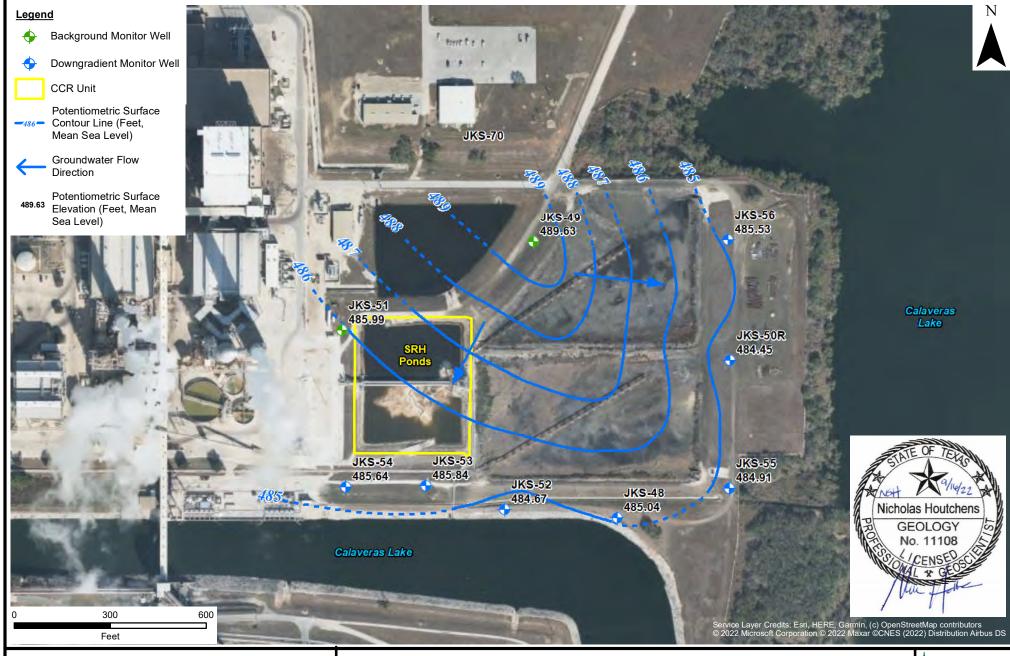
 DESIGN:
 NH
 DRAWN:
 EFC
 CHKD.:
 WZ

 DATE:
 6/24/2022
 SCALE:
 AS SHOWN
 REVISION:
 1

 0:Houston!Projectsl0337367 CPSCalv_pmap8, Bol/shPonds, oct2017_md
 WZSampling Events (2016-2018)/CCR Events/2016-17/GISMXDI2017_CAI

POTENTIOMETRIC SURFACE MAP OCTOBER 2017
Bottom Ash Ponds CCR Unit
CPS Energy - Calaveras Power Station
San Antonio, Texas





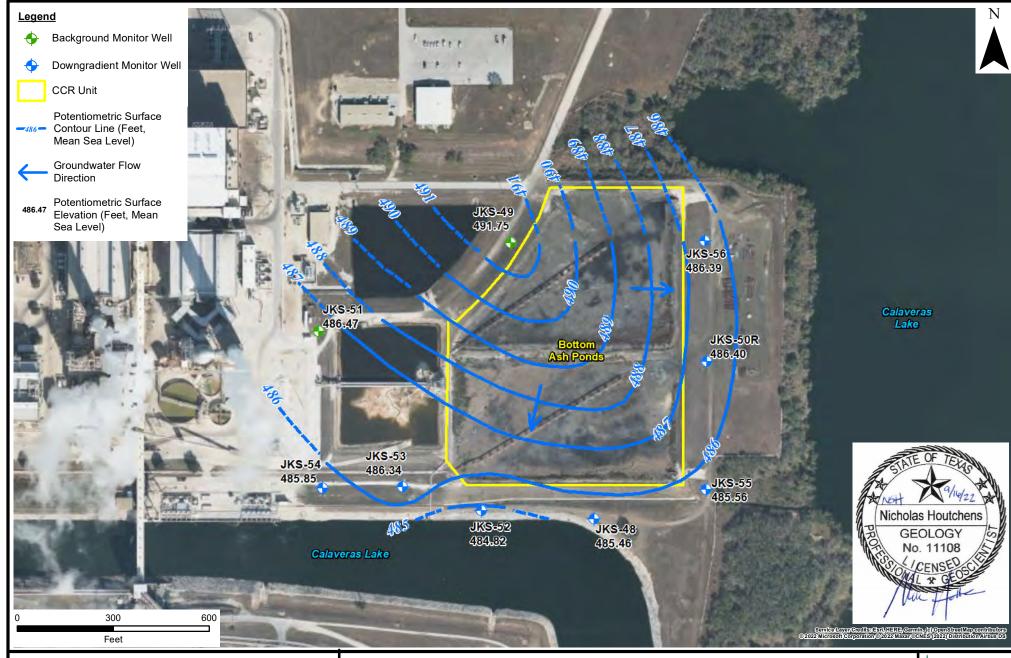
DESIGN: NH DRAWN: AJB CHKD.: WZ
DATE: 9/3/2022 SCALE: AS SHOWN REVISION: 1

POTENTIOMETRIC SURFACE MAP APRIL 2018
Bottom Ash Ponds CCR Unit
CPS Energy - Calaveras Power Station
San Antonio, Texas

Texas Registered Engineering Firm F-2393 Texas Board of Professional Geoscientist Firm 50036



Q:\Houston\Projects\0503422 CPS Energy Calaveras 2019 CCF fig2_0503422_CPSCalv_SRHPonds_apr2018pmap.mxd

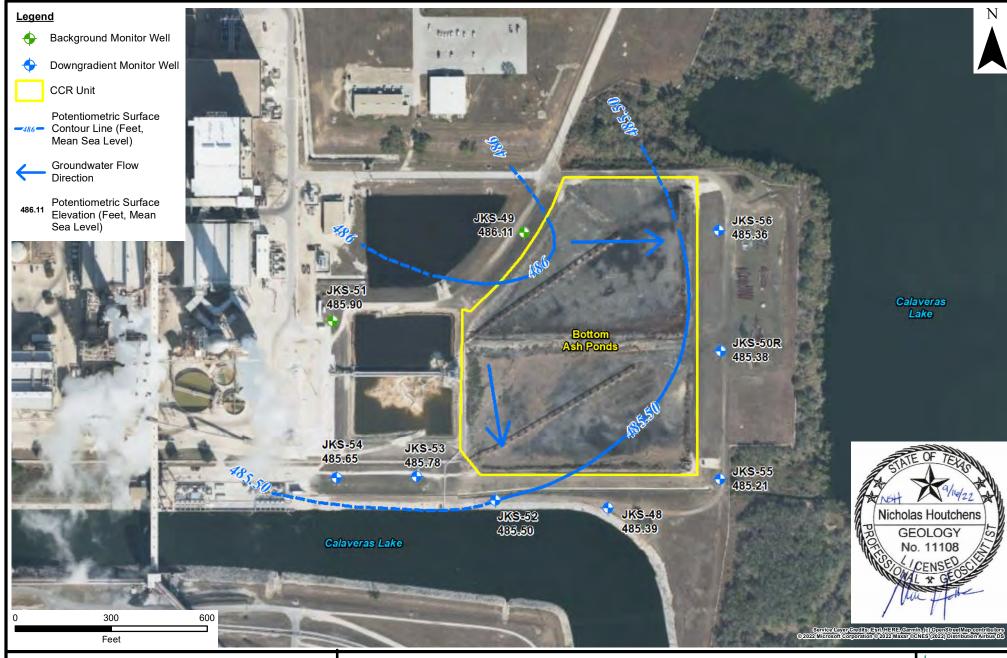


DESIGN: NH DRAWN: EFC CHKD.: WZ

DATE: 9/3/2022 SCALE: AS SHOWN REVISION: 1

C\HoustonProjects\0337367 CPS Energy CCR GW Investigation.WZ\Sampling Events (2016-2018)\CCR Events\2016-17\G|S\MXD\2018\ 0337367_CPSCalv_pmapS_BotAshPonds_cct2018.mxd POTENTIOMETRIC SURFACE MAP OCTOBER 2018
Bottom Ash Ponds CCR Unit
CPS Energy - Calaveras Power Station
San Antonio, Texas





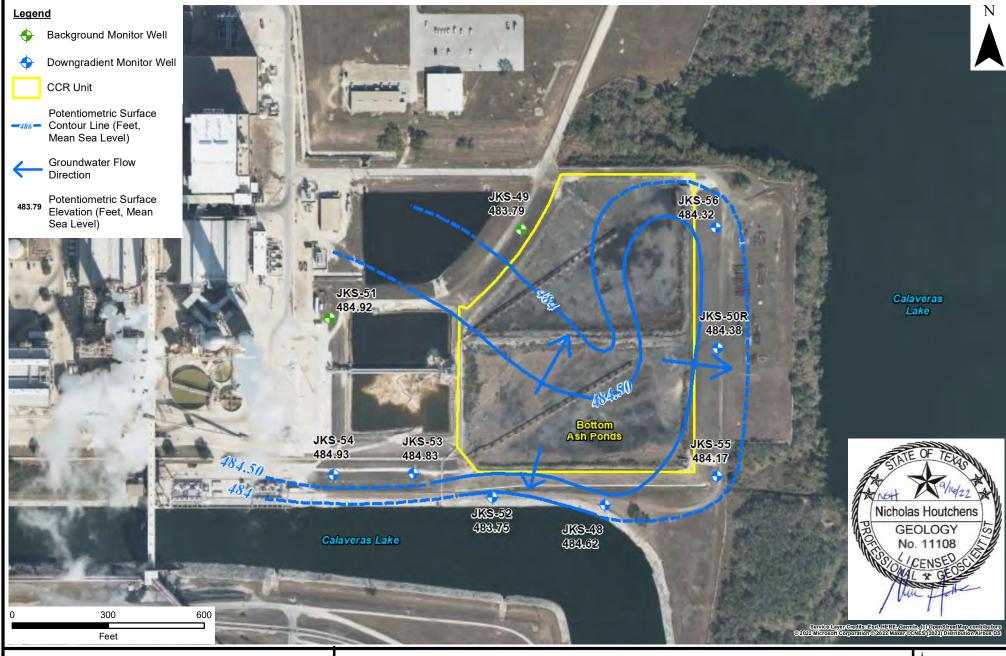
DESIGN: NH DRAWN: EFC CHKD.: WZ
DATE: 6/24/2022 SCALE: AS SHOWN REVISION: 1

Texas Registered Engineering Firm F-2393 Texas Board of Professional Geoscientist Firm 50036

POTENTIOMETRIC SURFACE MAP APRIL 2019
Bottom Ash Ponds CCR Unit
CPS Energy - Calaveras Power Station
San Antonio, Texas



Q:\Houston\Projects\0503422 CPS Energy Calaveras 2019 CCF fig2A_0503422_CPSCalv_BotAshPond_apr2019pmap.mxd



DESIGN: NH DRAWN: EFC CHKD.: WZ
DATE: 9/3/2022 SCALE: AS SHOWN REVISION: 1

Texas Registered Engineering Firm F-2393 Texas Board of Professional Geoscientist Firm 50036

POTENTIOMETRIC SURFACE MAP OCTOBER 2019
Bottom Ash Ponds CCR Unit
CPS Energy - Calaveras Power Station
San Antonio, Texas



Q:\Houston\Projects\0503422 CPS Energy Calaveras 2019 CCR Tasks.WZ\GIS_CAD\MXD\2019gwr fig2B_0503422_CPSCalv_BotAshPond_oct2019pmap.mxd

D_0303422_CF3Calv_butAshFolic



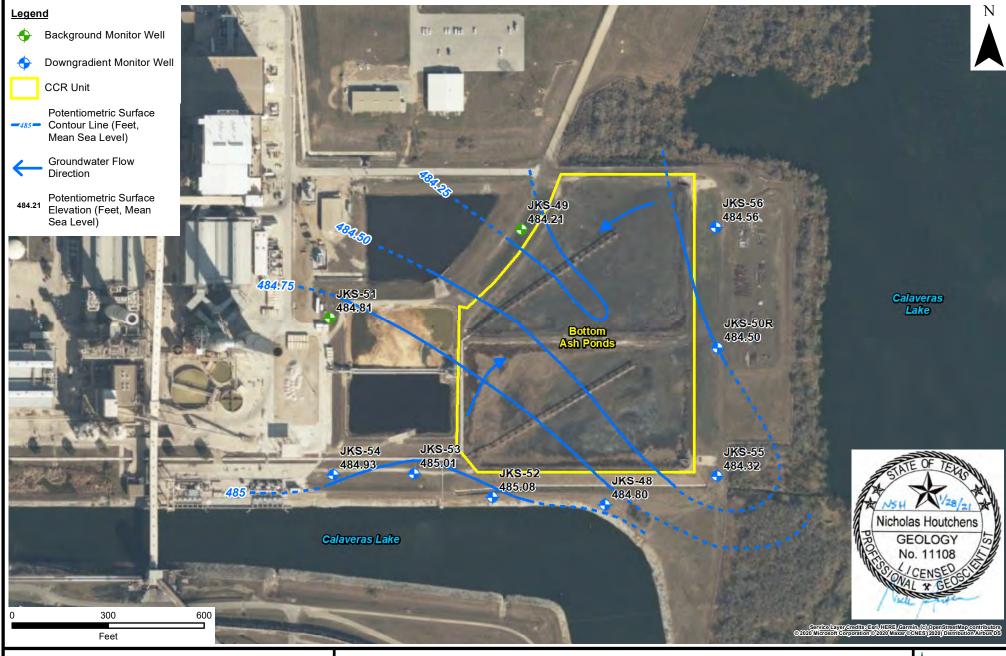
 DESIGN:
 NH
 DRAWN:
 LSC
 CHKD.:
 WZ

 DATE:
 1/19/2021
 SCALE:
 AS SHOWN
 REVISION:
 2

 USBDCFS02/DataHoustonIProjects/0503422 CPS Energy Calaveras 2019 CCR Tasks WZIGIS_CADIMXDI2020gwmon\/ fig2A, 0503422_CPSCalv_BolAshPond_apr/2020gmap.mxd
 CPS Energy Calaveras 2019 CCR Tasks WZIGIS_CADIMXDI2020gwmon\/ fig2A, 0503422_CPSCalv_BolAshPond_apr/2020gmap.mxd

POTENTIOMETRIC SURFACE MAP APRIL 2020
Bottom Ash Ponds CCR Unit
CPS Energy - Calaveras Power Station
San Antonio, Texas





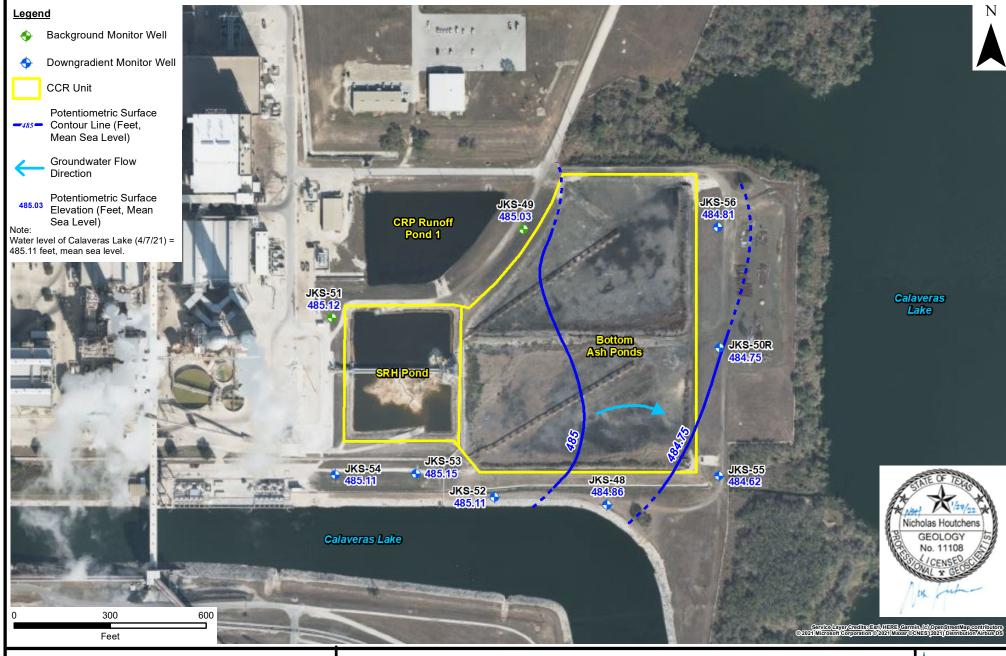
NH LSC WZ DESIGN: DRAWN: CHKD.: 1/19/2021 AS SHOWN DATE: SCALE: REVISION: \\USBDCFS02\Data\\Houston\Projects\0503422 CPS Energy Calaveras 20 fig2B_0503422_CPSCalv_BotAshPond_oct2020pmap.mxd

Texas Board of Professional Geoscientist Firm 50036

POTENTIOMETRIC SURFACE MAP -OCTOBER 2020 Bottom Ash Ponds CCR Unit CPS Energy - Calaveras Power Station San Antonio, Texas



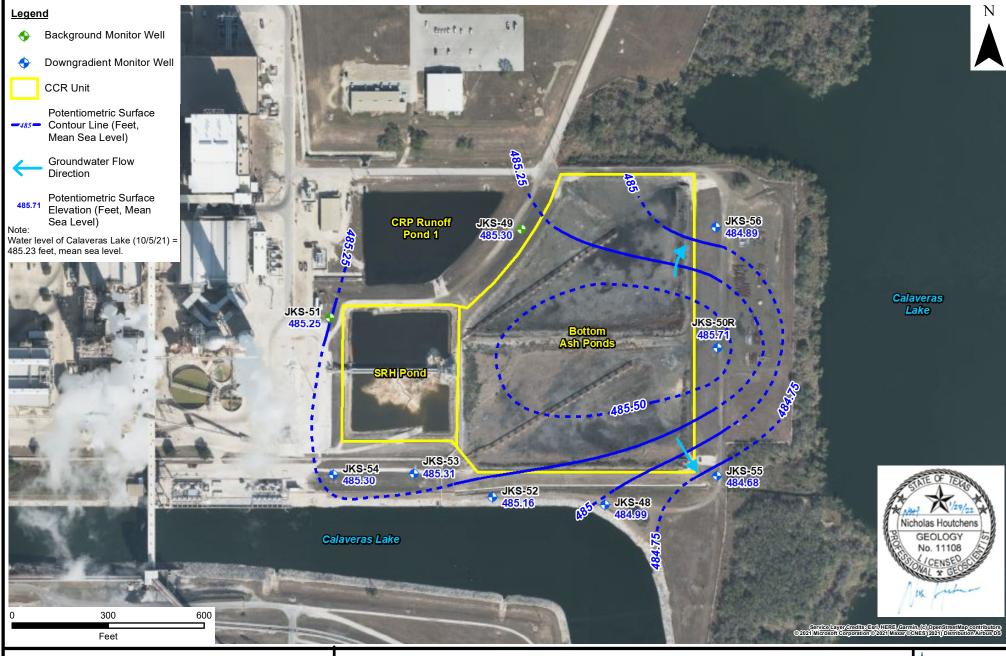
Texas Registered Engineering Firm F-2393



NH LSC WZ DESIGN: DRAWN: CHKD.: DATE: 1/13/2022 AS SHOWN REVISION: SCALE: \\USBDCFS02\Data\Houston\Projects\0503422 CPS Energy Calaveras 2019 CCI 202104_fig2B_0503422_CPSCalv_BotAshPond_BasemapPotmap.mxd

POTENTIOMETRIC SURFACE MAP -**APRIL 2021** Southern CCR Units CPS Energy - Calaveras Power Station San Antonio, Texas





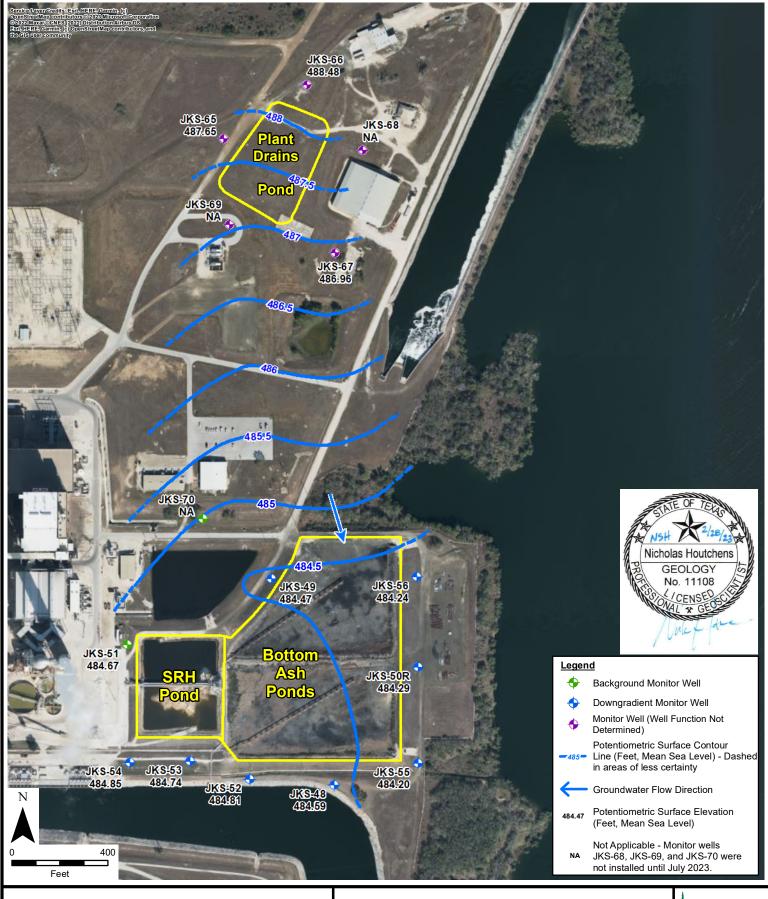
 DESIGN:
 NH
 DRAWN:
 LSC
 CHKD.:
 WZ

 DATE:
 1/13/2022
 SCALE:
 AS SHOWN
 REVISION:
 4

 MUSBDCFS02/DatalHouston/Projects/0503422 CPS Energy Calaveras 2019 CCR Tasks.WZiGIS_CADIMXD/02/021gwmonl.
 202110_fig2E_0503422_CPSQalv_Bol/shPond_BasemapPotmapFinal.mxd

POTENTIOMETRIC SURFACE MAP OCTOBER 2021
Southern CCR Units
CPS Energy - Calaveras Power Station
San Antonio, Texas





 DESIGN:
 NH
 DRAWN:
 LM
 CHKD.:
 WZ

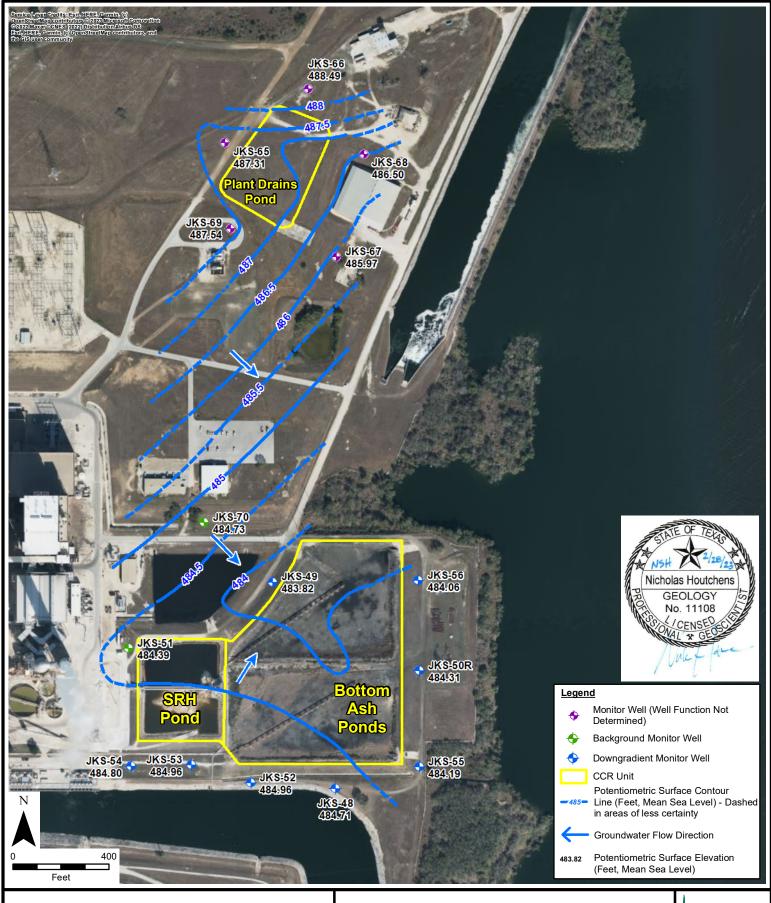
 DATE:
 06/02/2023
 SCALE:
 AS SHOWN
 REVISION:
 0

 \(\USBDCFS02\Data\)Libuston\(\Projects\)\(\USBDCFS02\Data\)Libuston\(\Projects\)\(\USBDCFS02\Data\)Libuston\(\Projects\)\(\USBDCFS02\Data\)
 CAT Tasks. \(\USBC\)CAD\(\USBC\)AXD\(\USBC\)\(\USBC\)

Texas Registered Engineering Firm F-2393 Texas Board of Professional Geoscientist Firm 50036

POTENTIOMETRIC SURFACE MAP -April 2022 Central and Southern CCR Units CPS Energy - Calaveras Power Station San Antonio, Texas





 DESIGN:
 NH
 DRAWN:
 LM
 CHKD.:
 WZ

 DATE:
 07/02/2023
 SCALE:
 AS SHOWN
 REVISION:
 0

 WUSBDCFS02/IDatalHoustoniProjects\0503422 CPS Energy Calaveras 2019 CCR Tasks.WZ\GIS_CAD\MXD\2022gwmoFla28 0636109 CCR SouthemPot Oct2022.mxd
 Oct2022.mxd

POTENTIOMETRIC SURFACE MAP October 2022
Central and Southern CCR Units CPS
Energy - Calaveras Power Station San
Antonio, Texas

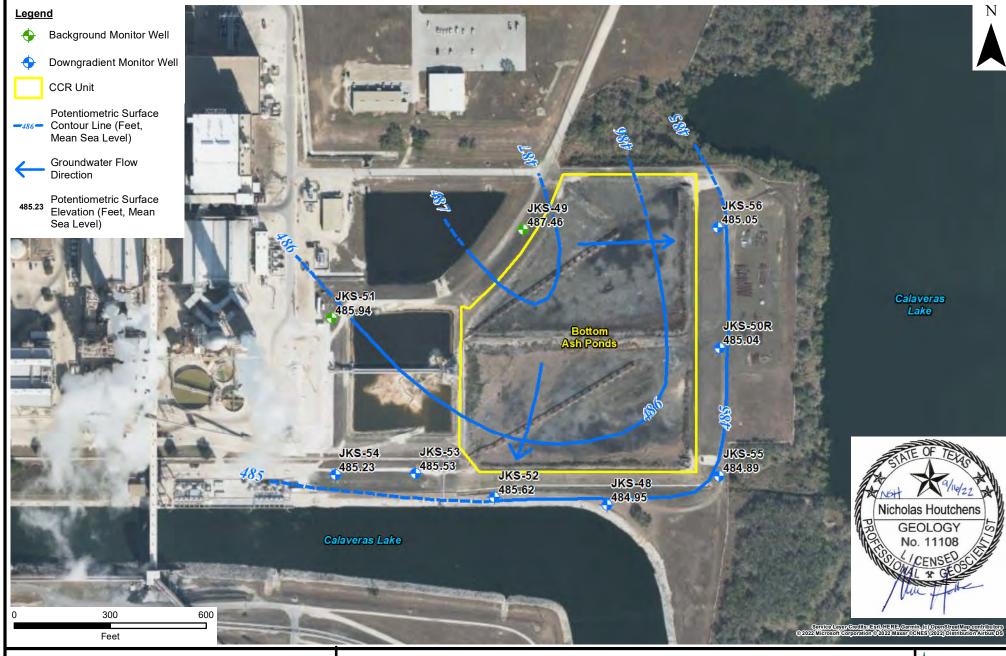


SRH POND

CPS Energy – Calaveras Power Station

San Antonio, Texas

ERM



 DESIGN:
 NH
 DRAWN:
 EFC
 CHKD.:
 WZ

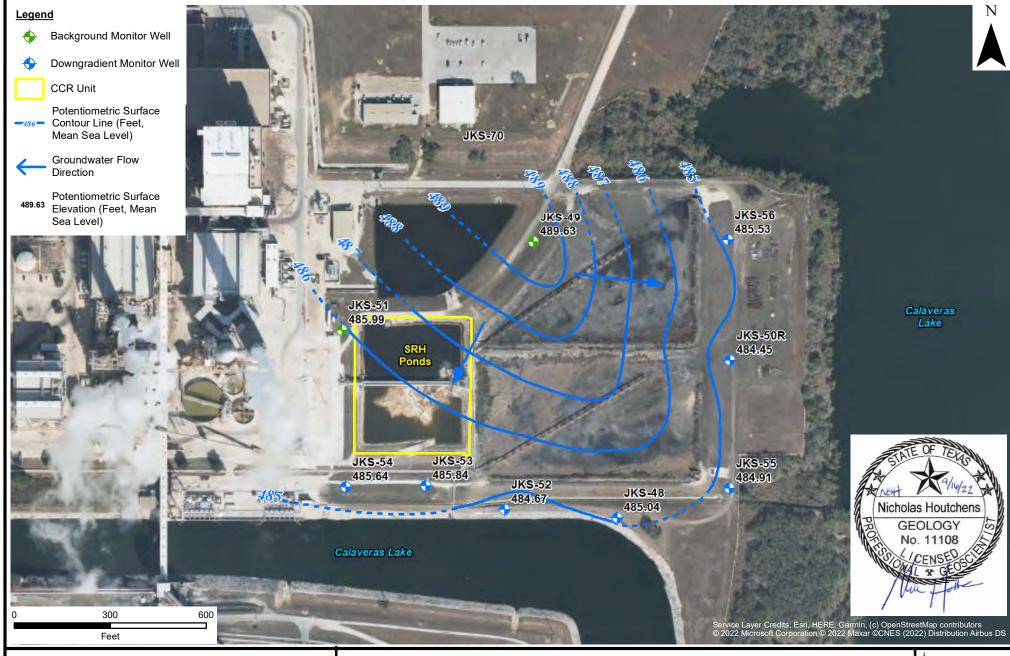
 DATE:
 6/24/2022
 SCALE:
 AS SHOWN
 REVISION:
 1

Texas Registered Engineering Firm F-2393 Texas Board of Professional Geoscientist Firm 50036

POTENTIOMETRIC SURFACE MAP OCTOBER 2017
SRH Pond CCR Unit
CPS Energy - Calaveras Power Station
San Antonio, Texas



Q:\Houston\Projects\0337367 CPS Energy CCR GW Investigation.\WZ\Sampling Events (2016-2018)\CC 0337367_CPSCalv_pmapS_BotAshPonds_cct2017.mxd



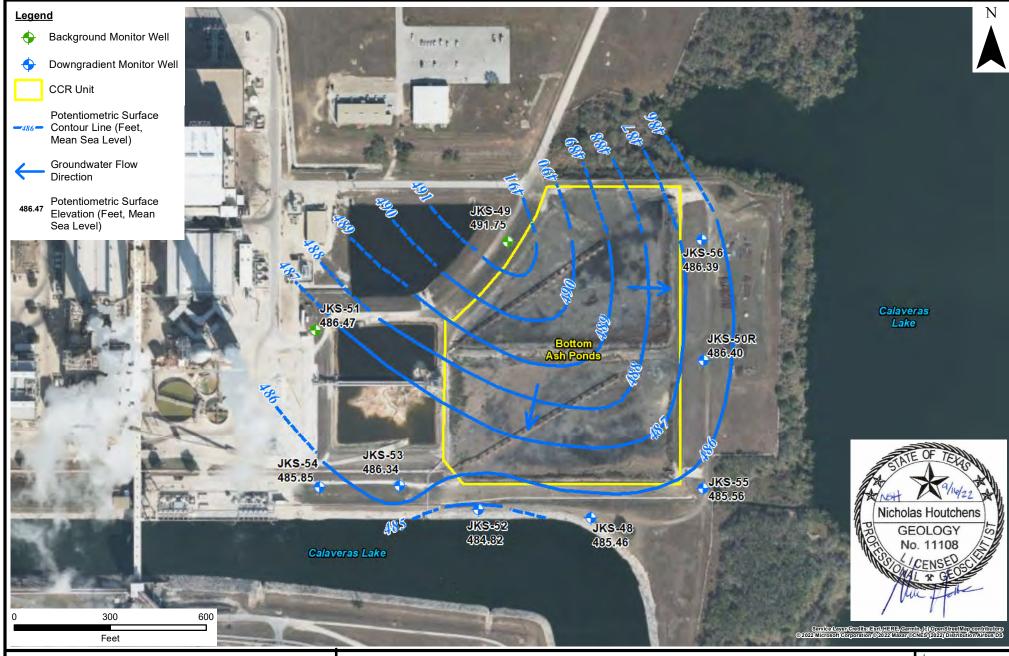
 DESIGN:
 NH
 DRAWN:
 AJB
 CHKD.:
 WZ

 DATE:
 9/3/2022
 SCALE:
 AS SHOWN
 REVISION:
 1

 0:HoustoniProjectsi0503422 CPS Energy Calaverss 2019 CCR Tasks.WZiGIS_CADIMXD12018gwmonl fig2_0503422_CPSCalv_SRHPports_apr/2018gmap.mxd
 1

POTENTIOMETRIC SURFACE MAP APRIL 2018
SRH Pond CCR Unit
CPS Energy - Calaveras Power Station
San Antonio, Texas





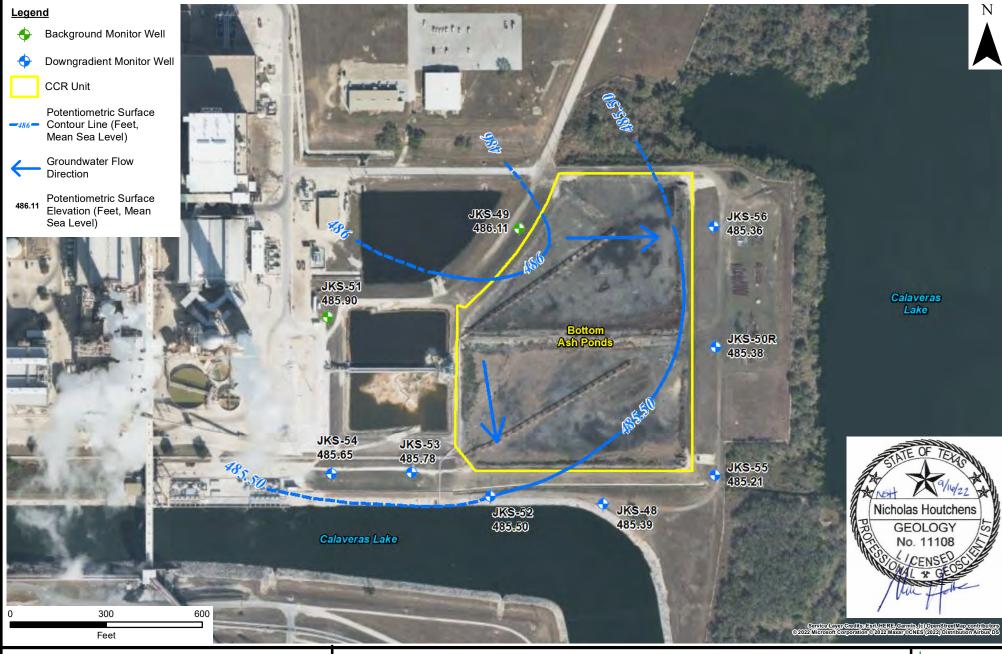
DESIGN: NH DRAWN: EFC CHKD.: WZ

DATE: 9/3/2022 SCALE: AS SHOWN REVISION: 1

C:\text{Houston|Projects\0337367} CPS Energy CCR GW Investigation.WZ\Sampling Events\(2016-2018\)\CCR Events\(2016-17\GiS\text{IMXD\2018\}\)
0337367_CPSCalv_pmapS_BotAsh\text{Ponds}_oct\(2016\)\text{Events\}\(2016\)

POTENTIOMETRIC SURFACE MAP OCTOBER 2018
SRH Pond CCR Unit
CPS Energy - Calaveras Power Station
San Antonio, Texas

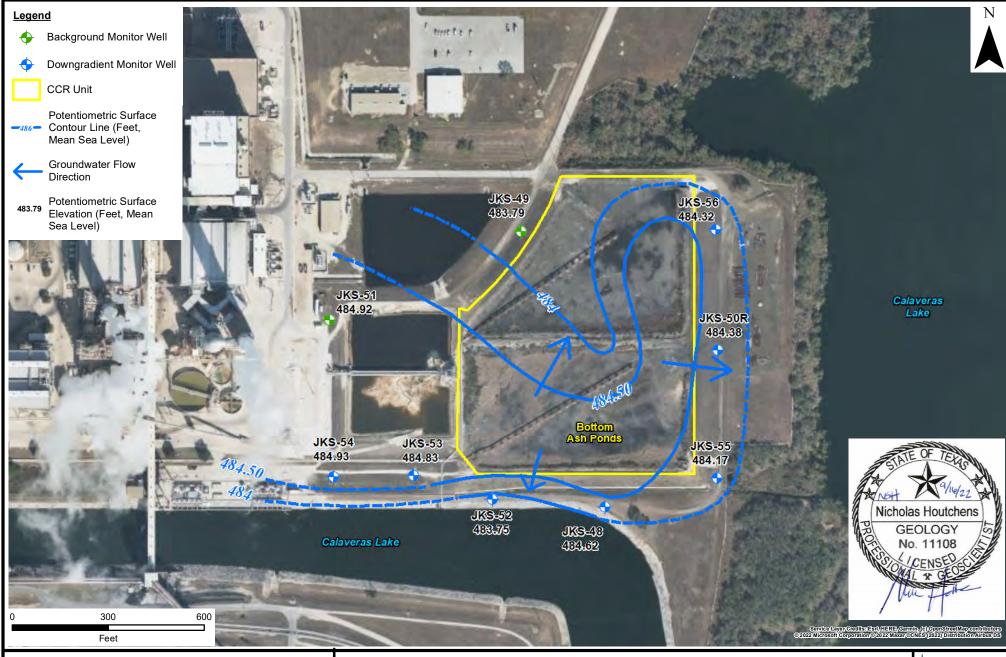




DESIGN: NH DRAWN: EFC CHKD.: WZ
DATE: 6/24/2022 SCALE: AS SHOWN REVISION: 1

POTENTIOMETRIC SURFACE MAP APRIL 2019
SRH Pond CCR Unit
CPS Energy - Calaveras Power Station
San Antonio, Texas





 DESIGN:
 NH
 DRAWN:
 EFC
 CHKD.:
 WZ

 DATE:
 9/3/2022
 SCALE:
 AS SHOWN
 REVISION:
 1

POTENTIOMETRIC SURFACE MAP OCTOBER 2019
SRH Pond CCR Unit
CPS Energy - Calaveras Power Station
San Antonio, Texas

Texas Registered Engineering Firm F-2393 Texas Board of Professional Geoscientist Firm 50036



Q:\Houston\Projects\0503422 CPS Energy Calaveras 2019 CCR Tasks.WZ\GIS_CAD\MXD\2019gwmon\fig2B_0503422_CPSCalv_BotAshPond_oct2019pmap.mxd



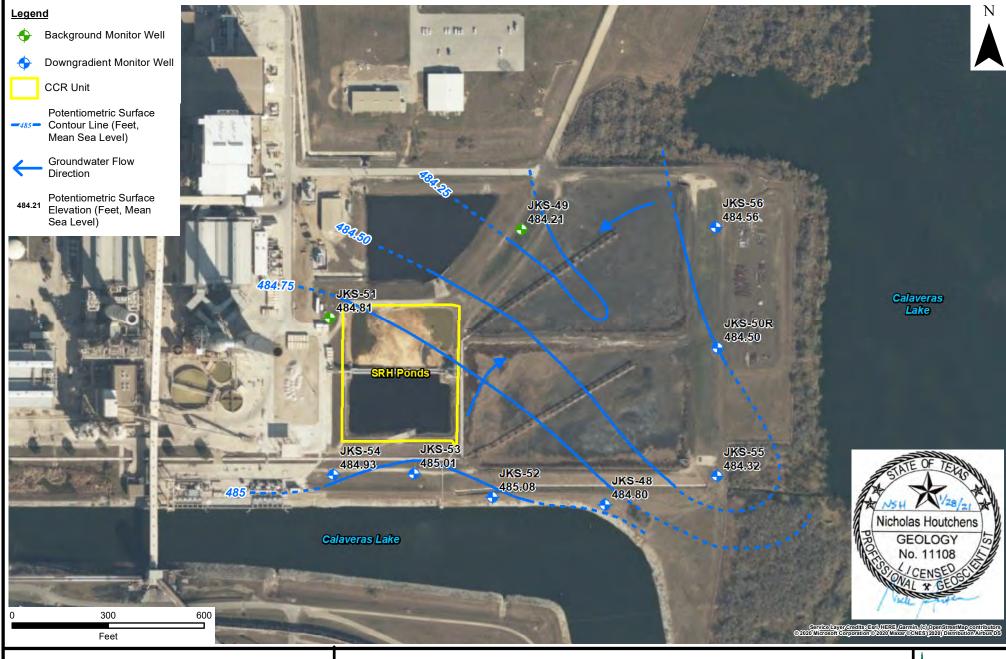
 DESIGN:
 NH
 DRAWN:
 LSC
 CHKD.:
 WZ

 DATE:
 1/19/2021
 SCALE:
 AS SHOWN
 REVISION:
 2

 WUSBDCFS02/DataHoustonIProjects/05/03422
 CPS Energy Calaveras 2019 CCR Tasks. WZIGIS_CAD/MXD/2020gwmon/fig2A, 05/03422
 CPS Calv_SRHPonds_apr/2020pmap.mxd

POTENTIOMETRIC SURFACE MAP APRIL 2020
SRH Pond CCR Unit
CPS Energy - Calaveras Power Station
San Antonio, Texas





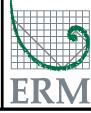
 DESIGN:
 NH
 DRAWN:
 LSC
 CHKD.:
 WZ

 DATE:
 1/19/2021
 SCALE:
 AS SHOWN
 REVISION:
 1

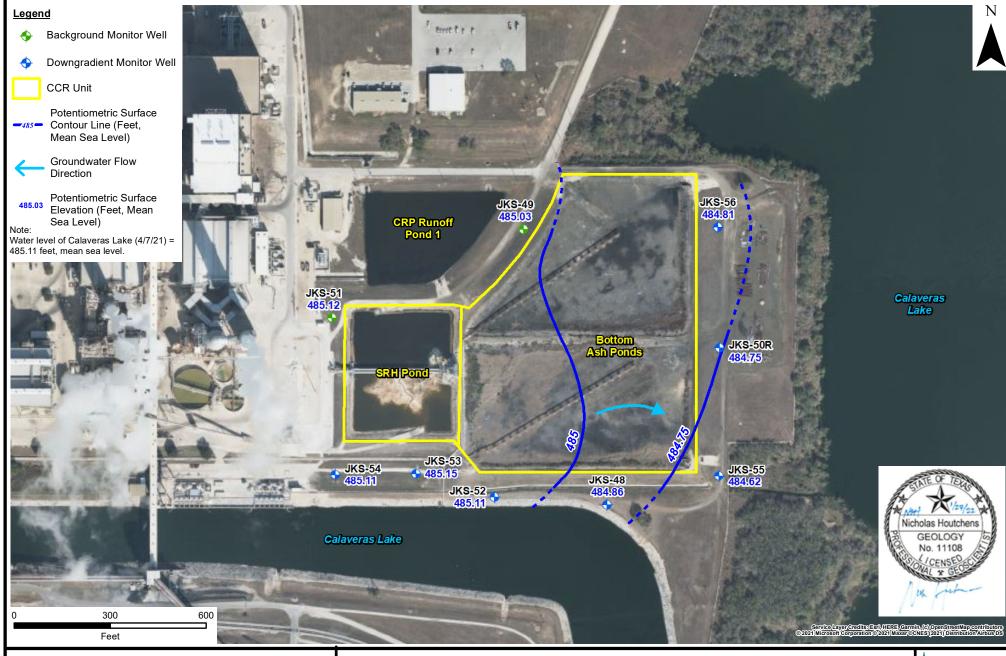
 UNSBDCF502/DatalHoustoniProjects/0503422 CPS Energy Calaveras 2019 CCR Tasks. WZIGIS_CADMXD\(\text{2020gwmon}\) fig28_0503422_CPSCalv_SRHPonds_oct\(\text{2020gmmon}\) m/xd
 AS SHOWN
 REVISION:
 1

POTENTIOMETRIC SURFACE MAP OCTOBER 2020
SRH Pond CCR Unit
CPS Energy - Calaveras Power Station
San Antonio, Texas

Texas Registered Engineering Firm F-2393
Texas Board of Professional Geoscientist Firm 50036



- 55



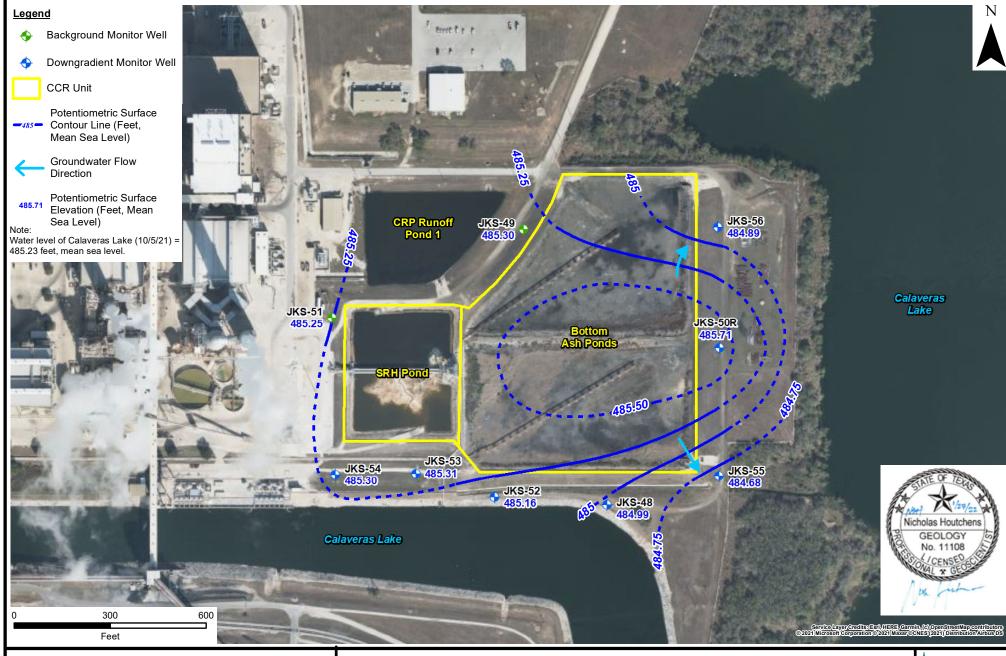
 DESIGN:
 NH
 DRAWN:
 LSC
 CHKD.:
 WZ

 DATE:
 1/13/2022
 SCALE:
 AS SHOWN
 REVISION:
 2

 JUSBDCFS02/DatalHoustoniProjects/0503422 CPS Energy Callaveras 2019 CCR Tasks. WZIGIS_CADIMXD12021gwmon1
 202104_fig28_0503422_CPS_Calv_BotAshPond_BasemapPotimap.mxd
 Tasks. WZIGIS_CADIMXD12021gwmon1

POTENTIOMETRIC SURFACE MAP APRIL 2021
Southern CCR Units
CPS Energy - Calaveras Power Station
San Antonio, Texas





 DESIGN:
 NH
 DRAWN:
 LSC
 CHKD.:
 WZ

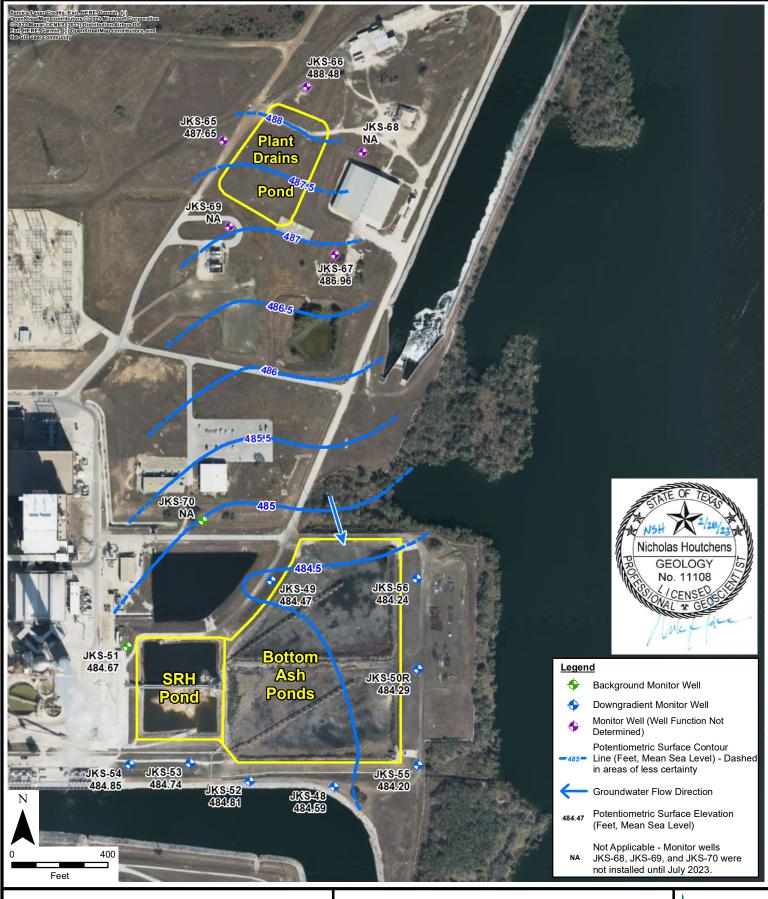
 DATE:
 1/13/2022
 SCALE:
 AS SHOWN
 REVISION:
 4

POTENTIOMETRIC SURFACE MAP OCTOBER 2021
Southern CCR Units
CPS Energy - Calaveras Power Station
San Antonio, Texas

Texas Registered Engineering Firm F-2393 Texas Board of Professional Geoscientist Firm 50036



\\USBDCFS02\Data\\ouston\Projects\0503422\ CPS\Energy\ Calaveras\2019\ CCR\ Tasks\.\WZ\\GIS_CAD\\MXD\202110_fig2E_0503422_CPS\colon=0r4s\phi\normalpha\text{Pond_BasemapPotmapFinal.mxd}



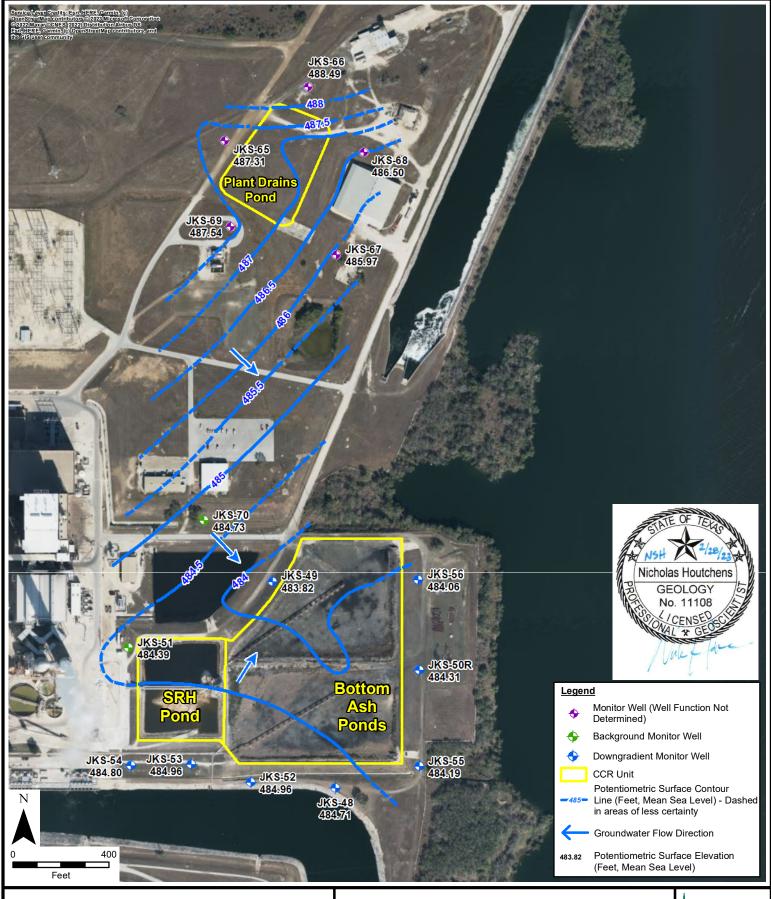
 DESIGN:
 NH
 DRAWN:
 LM
 CHKD.:
 WZ

 DATE:
 06/02/2023
 SCALE:
 AS SHOWN
 REVISION:
 0

 \USBDCFS02\Data\Houston\Projects\0503422 CPS Energy
 Calaveras 2019 CCR Tasks, WZ\GS_CAD\MXD\2022gw

POTENTIOMETRIC SURFACE MAP -April 2022 Central and Southern CCR Units CPS Energy - Calaveras Power Station San Antonio, Texas





 DESIGN:
 NH
 DRAWN:
 LM
 CHKD.:
 WZ

 DATE:
 07/02/2023
 SCALE:
 AS SHOWN
 REVISION:
 0

 USBDCFS02/Data/Houston/Projects/05/3422 CPS Energy Calaveras 2019 CCR Southern/Pot Oct2022.mxd
 CR Southern/Pot Oct2022.mxd
 CR Southern/Pot Oct2022.mxd

POTENTIOMETRIC SURFACE MAP October 2022
Central and Southern CCR Units CPS
Energy - Calaveras Power Station San
Antonio, Texas





www.erm.com Version: 1.0 Project No.: 0681818 Client: CPS Energy August 18, 2023



City Centre Four 840 West Sam Houston Parkway North, Suite 600

Houston, Texas 77024-3920

Telephone: +281-600-1000 Fax: +281-520-4625

www erm com

27 January 2022

Mr. Michael Malone CPS Energy 500 McCullough Avenue San Antonio, Texas 78215

Reference: Project No. 0503422

Subject: 2021 Water Level Study Report

Calaveras Power Station San Antonio, Texas



On behalf of CPS Energy, Environmental Resources Management Southwest, Inc. (ERM) has prepared this *Water Level Study Report* (Report) for the Coal Combustion Residual (CCR) Units located at the Calaveras Power Station (Power Station or Site). The objective of this Report is to summarize a one-year study (Study) of 2021 groundwater elevations and flow direction observations at the active CCR Units [i.e., Fly Ash Landfill (FAL), Evaporation Pond (EP), and Sludge Recycle Holding (SRH) Pond] and inactive CCR Units [i.e., North and South Bottom Ash Ponds (BAPs)].

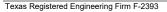
As documented in each CCR Unit's 2020 Annual Groundwater Monitoring and Corrective Action Report, a number of non-proportional groundwater elevation changes or uncharacteristic groundwater flow changes were observed during 2020. To better understand the temporal changes in hydrogeology at each CCR Unit, an analysis of site-wide groundwater elevation data was conducted during five groundwater observation events in 2021.

The results of the Study indicate four monitoring wells were found to be inconsistently acting in an upgradient capacity: JKS-57 at the FAL, JKS-64 at the EP, and JKS-49 and JKS-51 at the SRH Pond/BAPs. It is ERM's recommendation to install two to four new monitoring wells, one or two wells at the FAL and one or two wells at the SRH Pond/BAPs. Additionally, it is ERM's recommendation to re-designate JKS-64 as a downgradient monitoring well at the EP.

Introduction and Approach

CPS Energy owns and operates the Calaveras Power Station that consists of two power plants (J.T Deely and J.K. Spruce) that are subject to regulation under the CCR Rule (i.e., Title 40, Code of Federal Regulations, Part 257). The Power Station is located in unincorporated Bexar County, Texas, approximately 13 miles southeast of San Antonio. Currently, CPS Energy operates three CCR units at the Power Station: Fly Ash Landfill (FAL), Evaporation Pond (EP), and the SRH Pond. Although the J.T. Deely Power Plant ceased operation at the end of December 2018 and sluiced bottom ash is no longer being received at the BAPs, the BAPs will continue to be monitored until the units have undergone closure.





Annual Groundwater Monitoring and Corrective Action Reports have been completed for each of these CCR units since 2017. Included in these annual reports is a summary of each CCR Unit's groundwater elevations and an analysis of groundwater flow directions, the purpose of which is to monitor for any changes that could potentially affect well functionality and designation within the monitoring well networks. As noted in all four of the 2020 Annual Groundwater Monitoring and Corrective Action Reports, groundwater flow directions and/or groundwater elevations at select monitoring wells at each CCR unit appear to have changed when compared to previous observations. These apparent changes included the following:

- **FAL:** A non-proportional change in water levels was observed at upgradient well JKS-57 during the 2020 monitoring events which resulted in an apparent change in groundwater flow direction.
- **(EP):** A non-proportional change in water levels was observed at downgradient well JKS-36 during the 2020 monitoring events which resulted in an apparent change in groundwater flow direction.
- SRH Pond/BAPs: Groundwater flow during the October 2020 monitoring event was observed from Calaveras Lake towards the SRH Pond/BAPs which is a change in groundwater flow direction not previously observed in this area, but similar to observations made during the October 2019 monitoring event.

Groundwater monitoring networks like those at the Calaveras Power Station, that exhibit substantially flat gradients, are more likely to experience differences in groundwater flow direction. These apparent changes/differences could potentially impact the designation of upgradient and downgradient wells and the interpretation of statistical analyses. Because of these apparent changes, it was noted in each 2020 *Annual Groundwater Monitoring and Corrective Action Report* that a Water Level Study would be conducted at each of the CCR Units in 2021.

Methodology

A total of five rounds of groundwater level measurements were collected at each CCR monitoring well network from February to October 2021, occurring approximately every two months (i.e., February, April, June, August, and October). During those groundwater observation events, additional groundwater elevations were collected from other on-site monitoring wells (not associated with CCR unit monitoring) in order to gain better understanding of site-wide groundwater flow characteristics. Monitoring well locations are shown on Figure 1. A description of groundwater monitoring well networks utilized in the Study are provided below:

- **FAL:** The well network consists of two upgradient monitoring wells (JKS-45 and JKS-57) and four downgradient monitoring wells (JKS-31, JKS-33, JKS-46, and JKS-60). For discussion purposes in this Study, the FAL and EP are mapped together as the "Northern Units."
- EP: The well network consists of three upgradient monitoring wells (JKS-47, JKS-63R, and JKS-64) and three downgradient monitoring wells (JKS-36, JKS-61, and JKS-62). For discussion purposes in this Study, the FAL and EP are mapped together as the "Northern Units."

- SRH Pond: The well network consists of two upgradient monitoring wells (JKS-49 and JKS-51) and three downgradient monitoring wells (JKS-52, JKS-53, and JKS-54). For discussion purposes in this Study, the SRH Pond and BAPs are mapped and collectively analyzed together as the "Southern Units."
- **BAPs:** The well network consists of two upgradient monitoring wells (JKS-49 and JKS-51) and five downgradient monitoring wells (JKS-48, JKS-50R, JKS-52, JKS-55, and JKS-56). For discussion purposes in this Study, the BAPs and SRH Pond are mapped and collectively analyzed together as the "Southern Units."
- Non-CCR Observation Wells The following twelve additional on-site wells, not affiliated with the CCR Program, were measured as part of the Study: JKS-32, JKS-34, JKS-37, JKS-39, JKS-40, JKS-42, JKS-43, JKS-44, JTD-1, JTD-2, JTD-4, and JTD-5.

Groundwater Observations and Conclusions

Groundwater elevations collected during each of the five groundwater observation events, including historical data collected prior to 2021, for the CCR Units and Non-CCR Observation Wells are summarized in Table 1 and Table 2, respectively. Groundwater elevations and the potentiometric surfaces from February to October 2021 for the Northern Units are shown on Figures 2A through Figures 2E, respectively, and for the Southern Units on Figures 3A through Figures 3E, respectively. Graphs of Calaveras Lake level elevations and monitoring well level elevations collected through the entirety of the CCR Program are shown on Figure 4A through Figure 7A, respectively. Additionally, graphs of level elevations for only the 2021 groundwater observation events are shown on Figures 4B through Figure 7B, respectively.

<u>FAL</u>

As shown in Figures 2A through 2E, groundwater in the vicinity of the FAL appears to flow radially to the northwest, northeast, and east from a potentiometric high located at JKS-45, consistent with observations from 2020. A holistic consideration of groundwater elevations associated with the FAL, EP, and other non-CCR observation wells indicates the presence of a potential groundwater divide that roughly trends southwest to northeast along the bottom ash conveyor/plant road that terminates into and beyond the southwest corner of the FAL. This divide also corresponds to the topographically highest part of land between the upper two arms of Calaveras Lake. Groundwater elevation observations also appear to indicate that this groundwater divide fluctuates in size and shape temporally, and may extend beyond the northwest corner of the FAL.

During the Study, the horizontal gradient ranged from approximately 0.011 to 0.020 feet/foot (ft/ft), with an average of 0.014 ft/ft. These are the highest calculated gradients at the Site, and generally indicate the presence of a moderate gradient. Horizontal gradients calculated during each of the groundwater observation events are provided below.

February 2021	April 2021	June 2021	August 2021	October 2021	Average
0.011 ft/ft	0.011 ft/ft	0.016 ft/ft	0.015 ft/ft	0.020 ft/ft	0.014 ft/ft

As shown in Figures 4A and 4B, the FAL network wells have generally had a lower groundwater elevation with respect to Calaveras Lake. The exceptions include JKS-45, which has had a relatively stable groundwater elevation similar to the lake water level, and JKS-57 and JKS-58, which show larger overall water level fluctuations above and below the lake water levels and appear to be influenced by periods of increased or decreased rainfall. In particular, JKS-58 showed a significant increase in groundwater elevation between the April and August events, which correlates well to increased precipitation experienced within the same time frame. It is possible that a buildup of precipitation within drainage features located outside the northeast corner of the FAL may have had an influence on the groundwater elevations observed at JKS-58 during the Study.

During the Study, JKS-45 consistently served in an upgradient capacity, and therefore should continue to be considered a viable background well for the FAL. Conversely, JKS-57 showed non-proportional changes in groundwater elevation similar to observations from 2020. JKS-57 had lower groundwater elevations than downgradient well JKS-58 during all 2021 events and had a lower groundwater elevation than downgradient wells JKS-31 and JKS-33 during the June and August events. JKS-57 has performed inconsistently as a background well (as shown on Figure 4A), and may be functionally downgradient of groundwater flow from JKS-45 and JKS-58 (as shown in Figures 2A through 2E). Thus, JKS-57 no longer appears to be a viable background well for the FAL.

EP

As shown in Figures 2A through 2E, groundwater in the vicinity of the EP appears to flow southeast from the potential groundwater divide (as described above) and northeast from the Closed Landfills (located immediately south of the EP) towards the CCR Unit, consistent with observations from 2020. A holistic consideration of groundwater elevations associated with the FAL, EP, and other non-CCR observation wells indicates groundwater flow downgradient of the EP flows in an east to northeast direction.

During the Study, the horizontal gradient ranged from approximately 0.002 to 0.004 ft/ft, with an average of 0.003 ft/ft and generally indicates the presence of a relatively flat gradient. Horizontal gradients calculated during each of the groundwater observation events are provided below.

February 2021	April 2021	June 2021	August 2021	October 2021	Average
0.003 ft/ft	0.003 ft/ft	0.002 ft/ft	0.004 ft/ft	0.003 ft/ft	0.003 ft/ft

As shown in Figures 5A and 5B, groundwater elevations of the EP network wells are below the Calaveras Lake water level and typically display greater changes in groundwater elevation than the relatively stable lake level elevation. The wells appear to show a moderate correlation in increased/decreased elevation changes when compared to increases and decreases in rainfall.

During the Study, JKS-47 and JKS-63R consistently served in an upgradient capacity, with the exception of the August event where downgradient well JKS-36 observed the highest groundwater elevation of the EP network wells. This was the second instance of JKS-36 recording the highest groundwater elevation (i.e., second non-proportional elevation change), the first occurring in October 2020. Overall, this occurrence appears to be anomalous considering its general

downgradient performance during the CCR Program (as shown in Figure 5A). Thus, JKS-47 and JKS-63R continue to be viable background wells for the EP. The third background well, JKS-64, had lower groundwater elevations than JKS-36 during the February and April events, but performed in a more upgradient capacity during the final three events, having higher groundwater elevations than JKS-47 and JKS-63R during the August and October events. Considering the variable performance of JKS-64 to maintain a higher groundwater elevation than JKS-36 over the entire CCR Program (as shown in Figure 5B), JKS-64 no longer appears to be a viable background well for the EP.

Southern Units (SRH Pond/BAPs)

As shown in Figures 3A through 3E, groundwater in the vicinity of the Southern Units appears to flow towards Calaveras Lake and the adjacent channel (south and southeast) during the February, June, and August events, which is similar to observations made in April 2020. Groundwater flow during the April event appears to have a more easterly flow from the Southern Units to Calaveras Lake. Groundwater elevations measured during the October event appear to display a radial-type flow from a potentiometric high that begins near JKS-50R and extends west towards the SRH Pond. While groundwater to the northeast, east and south appears to flow towards Calaveras Lake and the adjacent channel (similar to observations from earlier 2021 events), groundwater also appears to flow from the BAPs west towards the SRH Pond and northeast towards the CRP Runoff Pond 1.

During the 2021 Study, the horizontal gradient ranged from approximately 0.001 to 0.005 ft/ft, with an average of 0.002 ft/ft. These are the lowest calculated gradients at the Site, and generally indicate the presence of a relatively flat gradient. Horizontal gradients calculated during each of the groundwater observation events are provided below.

February 2021	April 2021	June 2021	August 2021	October 2021	Average
0.001 ft/ft	0.001 ft/ft	0.002 ft/ft	0.002 ft/ft	0.005 ft/ft	0.002 ft/ft

As shown in Figures 6A and 6B, a majority of the groundwater elevations from the Southern Units wells correlate well with Calaveras Lake water levels, especially after the April 2019 event. JKS-49 has been the exception, and appears to be influenced to a greater degree by precipitation rate or other additional factors, especially prior to April 2019.

During the Study, JKS-49 and JKS-51 inconsistently acted in an upgradient capacity, as JKS-49 had the highest groundwater elevation in three out of five events (February, June, August) and JKS-51 had the second highest groundwater elevation in four events for the BAPs (February through August) and two events for the SRH Pond (February and August). Specifically, during the April event, JKS-49 had a lower groundwater level than JKS-52 and the SRH Pond downgradient wells, and a lower elevation than JKS-50R and JKS-53 during the October event (as shown in Figure 6B). Specifically, JKS-51 had a lower groundwater elevation than JKS-50R during the October event, a lower elevation than JKS-53 during the April, June, and October events, and a lower elevation than JKS-54 during the June and October events (as shown in Figure 6B). The overall flat gradient observed near the Southern Units make seasonal fluctuations of groundwater flow more prominent, as higher precipitation rates and elevated lake levels typically correlate to higher groundwater elevations at downgradient monitoring wells. Considering the temporal

variability of groundwater elevations at JKS-49 and JKS-51, these wells no longer appear to be a viable background wells for the Southern Units.

Recommendations

Based on the observations from the Study, ERM recommends the following actions:

Site-wide – Conduct a site-wide re-survey of select monitoring wells installed prior to the start of the CCR Program (i.e., wells installed before 2016). Many of these wells were installed and surveyed over ten years ago and may have settled or been damaged/repaired and were not resurveyed to account for possible changes in elevations. An updated survey of these wells will ensure that all wells are correctly referenced under a single datum.

FAL – Installation of one or two new monitoring wells, located west and/or northwest of the FAL. It is anticipated that the new well(s) will be designated as a background well(s) at the FAL.

EP – Re-designation of JKS-64 as a downgradient well for monitoring and statistical analysis comparisons. The EP has two other viable background wells and installation of a new well is not warranted at this time.

Southern Units – Installation of one or two new monitoring wells, located north of the SRH Pond and CRP Runoff Pond 1, and northwest of the BAPs. It is anticipated that the new well(s) will be designated as a background well(s) at the Southern Units.

We appreciate the opportunity to support CPS Energy at the Calaveras Power Station. Please do not hesitate to contact me if you should have any questions.

Yours sincerely,

Environmental Resources Management Southwest, Inc.

Nicholas Houtchens Senior Geologist

Attachments

- Table 1 Groundwater Elevations Summary CCR Unit Wells
- Table 2 Groundwater Elevations Summary Non-CCR Unit Observation Wells
- Figure 1 CCR Well Network Location Map
- Figure 2A Potentiometric Surface Map February 2021 (Northern CCR Units)
- Figure 2B Potentiometric Surface Map April 2021 (Northern CCR Units)
- Figure 2C Potentiometric Surface Map June 2021 (Northern CCR Units)
- Figure 2D Potentiometric Surface Map August 2021 (Northern CCR Units)
- Figure 2E Potentiometric Surface Map October 2021 (Northern CCR Units)
- Figure 3A Potentiometric Surface Map February 2021 (Southern CCR Units)
- Figure 3B Potentiometric Surface Map April 2021 (Southern CCR Units)
- Figure 3C Potentiometric Surface Map June 2021 (Southern CCR Units)
- Figure 3D Potentiometric Surface Map August 2021 (Southern CCR Units)
- Figure 3E Potentiometric Surface Map October 2021 (Southern CCR Units)
- Figure 4A Graph of Fly Ash Landfill Groundwater Elevations (All Events)
- Figure 4B Graph of Fly Ash Landfill Groundwater Elevations (2021 Events)
- Figure 5A Graph of Evaporation Pond Groundwater Elevations (All Events)
- Figure 5B Graph of Evaporation Pond Groundwater Elevations (2021 Events)
- Figure 6A Graph of Southern CCR Units Groundwater Elevations (All Events)
- Figure 6B Graph of Southern CCR Units Groundwater Elevations (2021 Events)

TABLES

TABLE 1 Groundwater Elevations Summary - CCR Unit Wells CPS Energy - Calaveras Power Station

Well	CCR Unit	Well Elevation (ft msl)	Event No.	Date	Depth to Water (ft btoc)	Water Level (ft msl)
JKS-45 Upgradient	FAL	531.46	1	12/6/2016	46.83	484.63
JKS-45 Upgradient	FAL	531.46	2	2/21/2017	46.64	484.82
JKS-45 Upgradient	FAL	531.46	3	3/28/2017	46.52	484.94
JKS-45 Upgradient	FAL	531.46	4	5/2/2017	46.35	485.11
JKS-45 Upgradient	FAL	531.46	5	6/20/2017	46.64	484.82
JKS-45 Upgradient	FAL	531.46	6	7/25/2017	46.38	485.08
JKS-45 Upgradient	FAL	531.46	7	8/29/2017	46.73	484.73
JKS-45 Upgradient	FAL	531.46	8	10/10/2017	46.50	484.96
JKS-45 Upgradient	FAL	531.46	9	4/4/2018	46.59	484.87
JKS-45 Upgradient	FAL	531.46	10	10/30/2018	46.55	484.91
JKS-45 Upgradient	FAL	531.46	11	4/9/2019	46.21	485.25
JKS-45 Upgradient	FAL	531.46	12	10/22/2019	46.63	484.83
JKS-45 Upgradient	FAL	531.46	13	4/23/2020	46.21	485.25
JKS-45 Upgradient	FAL	531.46	14	10/15/2020	46.45	485.01
JKS-45 Upgradient	FAL	531.46	15	2/23/2021	46.70	484.76
JKS-45 Upgradient	FAL	531.46	16	4/8/2021	46.74	484.72
JKS-45 Upgradient	FAL	531.46	17	6/30/2021	46.84	484.62
JKS-45 Upgradient	FAL	531.46	18	8/19/2021	46.67	484.79
JKS-45 Upgradient	FAL	531.46	19	10/5/2021	46.89	484.57
JKS-57 Upgradient	FAL	506.91	1	12/6/2016	19.89	487.02
JKS-57 Upgradient	FAL	506.91	2	2/21/2017	18.95	487.96
JKS-57 Upgradient	FAL	506.91	3	3/28/2017	18.20	488.71
JKS-57 Upgradient	FAL	506.91	4	5/2/2017	18.80	488.11
JKS-57 Upgradient	FAL	506.91	5	6/20/2017	20.23	486.68
JKS-57 Upgradient	FAL	506.91	6	7/25/2017	21.16	485.75
JKS-57 Upgradient	FAL	506.91	7	8/29/2017	19.44	487.47
JKS-57 Upgradient	FAL	506.91	8	10/10/2017	21.67	485.24
JKS-57 Upgradient	FAL	506.91	9	4/4/2018	23.22	483.69
JKS-57 Upgradient	FAL	506.91	10	10/30/2018	24.65	482.26
JKS-57 Upgradient	FAL	506.91	11	4/9/2019	21.09	485.82
JKS-57 Upgradient	FAL	506.91	12	10/22/2019	22.61	484.30
JKS-57 Upgradient	FAL	506.91	13	4/23/2020	23.97	482.94
JKS-57 Upgradient	FAL	506.91	14	10/15/2020	25.68	481.23
JKS-57 Upgradient	FAL	506.91	15	2/23/2021	26.64	480.27
JKS-57 Upgradient	FAL	506.91	16	4/8/2021	26.89	480.02
JKS-57 Upgradient	FAL	506.91	17	6/30/2021	27.31	479.60
JKS-57 Upgradient	FAL	506.91	18	8/19/2021	26.77	480.14
JKS-57 Upgradient	FAL	506.91	19	10/5/2021	26.02	480.89

TABLE 1 Groundwater Elevations Summary - CCR Unit Wells CPS Energy - Calaveras Power Station

Well	CCR Unit	Well Elevation (ft msl)	Event No.	Date	Depth to Water (ft btoc)	Water Level (ft msl)
JKS-58 Water Level Only	FAL	504.45	1	12/6/2016	18.85	485.60
JKS-58 Water Level Only	FAL	504.45	2	2/21/2017	15.95	488.50
JKS-58 Water Level Only	FAL	504.45	3	3/28/2017	15.10	489.35
JKS-58 Water Level Only	FAL	504.45	4	5/2/2017	16.50	487.95
JKS-58 Water Level Only	FAL	504.45	5	6/20/2017	18.38	486.07
JKS-58 Water Level Only	FAL	504.45	6	7/25/2017	15.63	488.82
JKS-58 Water Level Only	FAL	504.45	7	8/29/2017	19.90	484.55
JKS-58 Water Level Only	FAL	504.45	8	10/10/2017	20.67	483.78
JKS-58 Water Level Only	FAL	504.45	9	4/4/2018	21.86	482.59
JKS-58 Water Level Only	FAL	504.45	10	10/30/2018	21.63	482.82
JKS-58 Water Level Only	FAL	504.45	11	4/9/2019	17.79	486.66
JKS-58 Water Level Only	FAL	504.45	12	10/22/2019	20.90	483.55
JKS-58 Water Level Only	FAL	504.45	13	4/23/2020	22.17	482.28
JKS-58 Water Level Only	FAL	504.45	14	10/15/2020	23.29	481.16
JKS-58 Water Level Only	FAL	504.45	15	2/23/2021	24.10	480.35
JKS-58 Water Level Only	FAL	504.45	16	4/8/2021	23.94	480.51
JKS-58 Water Level Only	FAL	504.45	17	6/30/2021	23.01	481.44
JKS-58 Water Level Only	FAL	504.45	18	8/19/2021	20.81	483.64
JKS-58 Water Level Only	FAL	504.45	19	10/5/2021	21.20	483.25
JKS-59 Water Level Only	FAL	496.45	1	12/6/2016	15.67	480.78
JKS-59 Water Level Only	FAL	496.45	2	2/21/2017	14.12	482.33
JKS-59 Water Level Only	FAL	496.45	3	3/28/2017	14.12	482.33
JKS-59 Water Level Only	FAL	496.45	4	5/2/2017	14.94	481.51
JKS-59 Water Level Only	FAL	496.45	5	6/20/2017	16.46	479.99
JKS-59 Water Level Only	FAL	496.45	6	7/25/2017	17.80	478.65
JKS-59 Water Level Only	FAL	496.45	7	8/29/2017	17.77	478.68
JKS-59 Water Level Only	FAL	496.45	8	10/10/2017	18.00	478.45
JKS-59 Water Level Only	FAL	496.45	9	4/4/2018	17.36	479.09
JKS-59 Water Level Only	FAL	496.45	10	10/30/2018	19.00	477.45
JKS-59 Water Level Only	FAL	496.45	11	4/9/2019	17.08	479.37
JKS-59 Water Level Only	FAL	496.45	12	10/22/2019	19.55	476.90
JKS-59 Water Level Only	FAL	496.45	13	4/23/2020	18.53	477.92
JKS-59 Water Level Only	FAL	496.45	14	10/15/2020	20.89	475.56
JKS-59 Water Level Only	FAL	496.45	15	2/23/2021	19.64	476.81
JKS-59 Water Level Only	FAL	496.45	16	4/8/2021	19.48	476.97
JKS-59 Water Level Only	FAL	496.45	17	6/30/2021	18.75	477.70
JKS-59 Water Level Only	FAL	496.45	18	8/19/2021	17.06	479.39
JKS-59 Water Level Only	FAL	496.45	19	10/5/2021	18.40	478.05

TABLE 1 Groundwater Elevations Summary - CCR Unit Wells CPS Energy - Calaveras Power Station

Well	CCR Unit	Well Elevation (ft msl)	Event No.	Date	Depth to Water (ft btoc)	Water Level (ft msl)
JKS-31 Downgradient	FAL	507.45	1	12/6/2016	27.01	480.44
JKS-31 Downgradient	FAL	507.45	2	2/21/2017	26.50	480.95
JKS-31 Downgradient	FAL	507.45	3	3/28/2017	25.98	481.47
JKS-31 Downgradient	FAL	507.45	4	5/2/2017	26.60	480.85
JKS-31 Downgradient	FAL	507.45	5	6/20/2017	26.70	480.75
JKS-31 Downgradient	FAL	507.45	6	7/25/2017	26.77	480.68
JKS-31 Downgradient	FAL	507.45	7	8/29/2017	26.58	480.87
JKS-31 Downgradient	FAL	507.45	8	10/10/2017	26.73	480.72
JKS-31 Downgradient	FAL	507.45	9	4/4/2018	26.86	480.59
JKS-31 Downgradient	FAL	507.45	10	10/30/2018	26.70	480.75
JKS-31 Downgradient	FAL	507.45	11	4/9/2019	25.10	482.35
JKS-31 Downgradient	FAL	507.45	12	10/22/2019	27.04	480.41
JKS-31 Downgradient	FAL	507.45	13	4/23/2020	26.51	480.94
JKS-31 Downgradient	FAL	507.45	14	10/15/2020	27.59	479.86
JKS-31 Downgradient	FAL	507.45	15	2/23/2021	27.72	479.73
JKS-31 Downgradient	FAL	507.45	16	4/8/2021	27.54	479.91
JKS-31 Downgradient	FAL	507.45	17	6/30/2021	27.27	480.18
JKS-31 Downgradient	FAL	507.45	18	8/19/2021	26.95	480.50
JKS-31 Downgradient	FAL	507.45	19	10/5/2021	27.34	480.11
JKS-33 Downgradient	FAL	498.71	1	12/6/2016	18.03	480.68
JKS-33 Downgradient	FAL	498.71	2	2/21/2017	17.32	481.39
JKS-33 Downgradient	FAL	498.71	3	3/28/2017	16.99	481.72
JKS-33 Downgradient	FAL	498.71	4	5/2/2017	17.27	481.44
JKS-33 Downgradient	FAL	498.71	5	6/20/2017	18.08	480.63
JKS-33 Downgradient	FAL	498.71	6	7/25/2017	18.50	480.21
JKS-33 Downgradient	FAL	498.71	7	8/29/2017	18.23	480.48
JKS-33 Downgradient	FAL	498.71	8	10/10/2017	18.10	480.61
JKS-33 Downgradient	FAL	498.71	9	4/4/2018	17.28	481.43
JKS-33 Downgradient	FAL	498.71	10	10/30/2018	18.25	480.46
JKS-33 Downgradient	FAL	498.71	11	4/9/2019	17.10	481.61
JKS-33 Downgradient	FAL	498.71	12	10/22/2019	18.80	479.91
JKS-33 Downgradient	FAL	498.71	13	4/23/2020	18.18	480.53
JKS-33 Downgradient	FAL	498.71	14	10/15/2020	19.68	479.03
JKS-33 Downgradient	FAL	498.71	15	2/23/2021	19.19	479.52
JKS-33 Downgradient	FAL	498.71	16	4/8/2021	18.83	479.88
JKS-33 Downgradient	FAL	498.71	17	6/30/2021	18.89	479.82
JKS-33 Downgradient	FAL	498.71	18	8/19/2021	18.22	480.49
JKS-33 Downgradient	FAL	498.71	19	10/5/2021	18.89	479.82

Well	CCR Unit	Well Elevation (ft msl)	Event No.	Date	Depth to Water (ft btoc)	Water Level (ft msl)
JKS-46 Downgradient	FAL	499.08	1	12/6/2016	17.61	481.47
JKS-46 Downgradient	FAL	499.08	2	2/21/2017	16.30	482.78
JKS-46 Downgradient	FAL	499.08	3	3/28/2017	16.10	482.98
JKS-46 Downgradient	FAL	499.08	4	5/2/2017	16.70	482.38
JKS-46 Downgradient	FAL	499.08	5	6/20/2017	17.98	481.10
JKS-46 Downgradient	FAL	499.08	6	7/25/2017	18.80	480.28
JKS-46 Downgradient	FAL	499.08	7	8/29/2017	18.91	480.17
JKS-46 Downgradient	FAL	499.08	8	10/10/2017	19.37	479.71
JKS-46 Downgradient	FAL	499.08	9	4/4/2018	19.65	479.43
JKS-46 Downgradient	FAL	499.08	10	10/30/2018	20.54	478.54
JKS-46 Downgradient	FAL	499.08	11	4/9/2019	18.90	480.18
JKS-46 Downgradient	FAL	499.08	12	10/22/2019	20.45	478.63
JKS-46 Downgradient	FAL	499.08	13	4/23/2020	20.22	478.86
JKS-46 Downgradient	FAL	499.08	14	10/15/2020	21.55	477.53
JKS-46 Downgradient	FAL	499.08	15	2/23/2021	21.57	477.51
JKS-46 Downgradient	FAL	499.08	16	4/8/2021	21.29	477.79
JKS-46 Downgradient	FAL	499.08	17	6/30/2021	20.90	478.18
JKS-46 Downgradient	FAL	499.08	18	8/19/2021	19.83	479.25
JKS-46 Downgradient	FAL	499.08	19	10/5/2021	20.20	478.88
JKS-60 Downgradient	FAL	495.7	1	12/6/2016	17.15	478.55
JKS-60 Downgradient	FAL	495.7	2	2/21/2017	16.34	479.36
JKS-60 Downgradient	FAL	495.7	3	3/28/2017	15.93	479.77
JKS-60 Downgradient	FAL	495.7	4	5/2/2017	15.96	479.74
JKS-60 Downgradient	FAL	495.7	5	6/20/2017	16.43	479.27
JKS-60 Downgradient	FAL	495.7	6	7/25/2017	17.00	478.70
JKS-60 Downgradient	FAL	495.7	7	8/29/2017	17.52	478.18
JKS-60 Downgradient	FAL	495.7	8	10/10/2017	17.20	478.50
JKS-60 Downgradient	FAL	495.7	9	4/4/2018	16.95	478.75
JKS-60 Downgradient	FAL	495.7	10	10/30/2018	17.75	477.95
JKS-60 Downgradient	FAL	495.7	11	4/9/2019	16.53	479.17
JKS-60 Downgradient	FAL	495.7	12	10/22/2019	18.03	477.67
JKS-60 Downgradient	FAL	495.7	13	4/23/2020	17.76	477.94
JKS-60 Downgradient	FAL	495.7	14	10/15/2020	19.33	476.37
JKS-60 Downgradient	FAL	495.7	15	2/23/2021	19.01	476.69
JKS-60 Downgradient	FAL	495.7	16	4/8/2021	18.81	476.89
JKS-60 Downgradient	FAL	495.7	17	6/30/2021	18.62	477.08
JKS-60 Downgradient	FAL	495.7	18	8/19/2021	18.20	477.50
JKS-60 Downgradient	FAL	495.7	19	10/5/2021	18.44	477.26

Well	CCR Unit	Well Elevation (ft msl)	Event No.	Date	Depth to Water (ft btoc)	Water Level (ft msl)
JKS-47 Upgradient	EP	513.63	1	12/6/2016	30.98	482.65
JKS-47 Upgradient	EP	513.63	513.63 2 2/21/		30.64	482.99
JKS-47 Upgradient	EP	513.63	3	3/28/2017	30.47	483.16
JKS-47 Upgradient	EP	513.63	4	5/2/2017	30.29	483.34
JKS-47 Upgradient	EP	513.63	5	6/20/2017	30.40	483.23
JKS-47 Upgradient	EP	513.63	6	7/25/2017	30.62	483.01
JKS-47 Upgradient	EP	513.63	7	8/29/2017	30.50	483.13
JKS-47 Upgradient	EP	513.63	8	10/10/2017	30.71	482.92
JKS-47 Upgradient	EP	513.63	9	4/4/2018	30.42	483.21
JKS-47 Upgradient	EP	513.63	10	10/30/2018	30.90	482.73
JKS-47 Upgradient	EP	513.63	11	4/9/2019	30.17	483.46
JKS-47 Upgradient	EP	513.63	12	10/22/2019	30.87	482.76
JKS-47 Upgradient	EP	513.63	13	4/23/2020	30.60	483.03
JKS-47 Upgradient	EP	513.63	14	10/15/2020	31.28	482.35
JKS-47 Upgradient	EP	513.63	15	2/23/2021	31.45	482.18
JKS-47 Upgradient	EP	513.63	16	4/8/2021	31.24	482.39
JKS-47 Upgradient	EP	513.63	17	6/30/2021	31.28	482.35
JKS-47 Upgradient	EP	513.63	18	8/19/2021	31.12	482.51
JKS-47 Upgradient	EP	513.63	19	10/5/2021	31.12	482.51
JKS-63 Upgradient	EP	526.86	1	12/6/2016	44.45	482.41
JKS-63 Upgradient	EP	526.86	2	2/21/2017	44.25	482.61
JKS-63 Upgradient	EP	526.86	3	3/28/2017	44.12	482.74
JKS-63 Upgradient	EP	526.86	4	5/2/2017	43.89	482.97
JKS-63 Upgradient	EP	526.86	5	6/20/2017	43.85	483.01
JKS-63 Upgradient	EP	526.86	6	7/25/2017	44.00	482.86
JKS-63 Upgradient	EP	526.86	7	8/29/2017	43.90	482.96
JKS-63 Upgradient	EP	526.86	8	10/10/2017	44.05	482.81
JKS-63 Upgradient	EP	526.86	9	4/4/2018	43.81	483.05
JKS-63R Upgradient	EP	522.27	Initial	8/20/2019	39.27	483.00
JKS-63R Upgradient	EP	522.27	12	10/22/2019	39.48	482.79
JKS-63R Upgradient	EP	522.27	13	4/23/2020	39.36	482.91
JKS-63R Upgradient	EP	522.27	14	11/17/2020	40.25	482.02
JKS-63R Upgradient	EP	522.27	15	2/23/2021	40.00	482.27
JKS-63R Upgradient	EP	522.27	16	4/8/2021	39.85	482.42
JKS-63R Upgradient	EP	522.27	17	6/30/2021	39.88	482.39
JKS-63R Upgradient	EP	522.27	18	8/19/2021	39.79	482.48
JKS-63R Upgradient	EP	522.27	19	10/5/2021	39.91	482.36

Well	CCR Unit	Well Elevation (ft msl)	Event No.	Date	Depth to Water (ft btoc)	Water Level (ft msl)
JKS-64 Upgradient	EP	507.84	1	12/6/2016	24.98	482.86
JKS-64 Upgradient	EP	507.84	2	2/21/2017	24.24	483.60
JKS-64 Upgradient	EP	507.84	3	3/28/2017	24.21	483.63
JKS-64 Upgradient	EP	507.84	4	5/2/2017	24.46	483.38
JKS-64 Upgradient	EP	507.84	5	6/20/2017	24.40	483.44
JKS-64 Upgradient	EP	507.84	6	7/25/2017	24.78	483.06
JKS-64 Upgradient	EP	507.84	7	8/29/2017	25.70	482.14
JKS-64 Upgradient	EP	507.84	8	10/10/2017	24.95	482.89
JKS-64 Upgradient	EP	507.84	9	4/4/2018	24.67	483.17
JKS-64 Upgradient	EP	507.84	10	10/30/2018	25.46	482.38
JKS-64 Upgradient	EP	507.84	11	4/9/2019	24.50	483.34
JKS-64 Upgradient	EP	507.84	12	10/22/2019	25.30	482.54
JKS-64 Upgradient	EP	507.84	13	4/23/2020	25.15	482.69
JKS-64 Upgradient	EP	507.84	14	10/15/2020	25.88	481.96
JKS-64 Upgradient	EP	507.84	15	2/23/2021	26.03	481.81
JKS-64 Upgradient	EP	507.84	16	4/8/2021	25.88	481.96
JKS-64 Upgradient	EP	507.84	17	6/30/2021	25.68	482.16
JKS-64 Upgradient	EP	507.84	18	8/19/2021	25.30	482.54
JKS-64 Upgradient	EP	507.84	19	10/5/2021	25.12	482.72
JKS-36 Downgradient	EP	508.41	1	12/6/2016	25.99	482.42
JKS-36 Downgradient	EP	508.41	2	2/21/2017	25.78	482.63
JKS-36 Downgradient	EP	508.41	3	3/28/2017	25.37	483.04
JKS-36 Downgradient	EP	508.41	4	5/2/2017	43.89	464.52
JKS-36 Downgradient	EP	508.41	5	6/20/2017	25.40	483.01
JKS-36 Downgradient	EP	508.41	6	7/25/2017	25.62	482.79
JKS-36 Downgradient	EP	508.41	7	8/29/2017	25.70	482.71
JKS-36 Downgradient	EP	508.41	8	10/10/2017	25.91	482.50
JKS-36 Downgradient	EP	508.41	9	4/4/2018	25.46	482.95
JKS-36 Downgradient	EP	508.41	10	10/30/2018	25.90	482.51
JKS-36 Downgradient	EP	508.41	11	4/9/2019	25.23	483.18
JKS-36 Downgradient	EP	508.41	12	10/22/2019	25.90	482.51
JKS-36 Downgradient	EP	508.41	13	4/23/2020	25.45	482.96
JKS-36 Downgradient	EP	508.41	14	10/15/2020	26.03	482.38
JKS-36 Downgradient	EP	508.41	15	2/23/2021	26.34	482.07
JKS-36 Downgradient	EP	508.41	16	4/8/2021	26.08	482.33
JKS-36 Downgradient	EP	508.41	17	6/30/2021	26.31	482.10
JKS-36 Downgradient	EP	508.41	18	8/19/2021	25.15	483.26
JKS-36 Downgradient	EP	508.41	19	10/5/2021	26.14	482.27

Well	CCR Unit	Well Elevation (ft msl)	Event No.	Date	Depth to Water (ft btoc)	Water Level (ft msl)
JKS-61 Downgradient	EP	505.51	1	12/6/2016	23.95	481.56
JKS-61 Downgradient	EP	505.51	2	2/21/2017	23.31	482.20
JKS-61 Downgradient	EP	505.51	3	3/28/2017	23.10	482.41
JKS-61 Downgradient	EP	505.51	4	5/2/2017	22.85	482.66
JKS-61 Downgradient	EP	505.51	5	6/20/2017	22.05	483.46
JKS-61 Downgradient	EP	505.51	6	7/25/2017	23.50	482.01
JKS-61 Downgradient	EP	505.51	7	8/29/2017	23.60	481.91
JKS-61 Downgradient	EP	505.51	8	10/10/2017	23.97	481.54
JKS-61 Downgradient	EP	505.51	9	4/4/2018	23.08	482.43
JKS-61 Downgradient	EP	505.51	10	10/30/2018	23.94	481.57
JKS-61 Downgradient	EP	505.51	11	4/9/2019	22.97	482.54
JKS-61 Downgradient	EP	505.51	12	10/22/2019	24.20	481.31
JKS-61 Downgradient	EP	505.51	13	4/23/2020	23.74	481.77
JKS-61 Downgradient	EP	505.51	14	10/15/2020	24.60	480.91
JKS-61 Downgradient	EP	505.51	15	2/23/2021	24.76	480.75
JKS-61 Downgradient	EP	505.51	16	4/8/2021	24.54	480.97
JKS-61 Downgradient	EP	505.51	17	6/30/2021	24.37	481.14
JKS-61 Downgradient	EP	505.51	18	8/19/2021	24.10	481.41
JKS-61 Downgradient	EP	505.51	19	10/5/2021	24.05	481.46
JKS-62 Downgradient	EP	509.84	1	12/6/2016	28.63	481.21
JKS-62 Downgradient	EP	509.84	2	2/21/2017	28.30	481.54
JKS-62 Downgradient	EP	509.84	3	3/28/2017	28.42	481.42
JKS-62 Downgradient	EP	509.84	4	5/2/2017	28.00	481.84
JKS-62 Downgradient	EP	509.84	5	6/20/2017	28.05	481.79
JKS-62 Downgradient	EP	509.84	6	7/25/2017	28.12	481.72
JKS-62 Downgradient	EP	509.84	7	8/29/2017	28.12	481.72
JKS-62 Downgradient	EP	509.84	8	10/10/2017	28.00	481.84
JKS-62 Downgradient	EP	509.84	9	4/4/2018	27.66	482.18
JKS-62 Downgradient	EP	509.84	10	10/30/2018	28.33	481.51
JKS-62 Downgradient	EP	509.84	11	4/9/2019	27.52	482.32
JKS-62 Downgradient	EP	509.84	12	10/22/2019	27.85	481.99
JKS-62 Downgradient	EP	509.84	13	4/23/2020	27.78	482.06
JKS-62 Downgradient	EP	509.84	14	11/17/2020	29.10	480.74
JKS-62 Downgradient	EP	509.84	15	2/23/2021	28.50	481.34
JKS-62 Downgradient	EP	509.84	16	4/8/2021	28.56	481.28
JKS-62 Downgradient	EP	509.84	17	6/30/2021	28.50	481.34
JKS-62 Downgradient	EP	509.84	18	8/19/2021	28.19	481.65
JKS-62 Downgradient	EP	509.84	19	10/5/2021	28.19	481.65

Well	CCR Unit	Well Elevation (ft msl)	Event No.	Date	Depth to Water (ft btoc)	Water Level (ft msl)
JKS-49 Upgradient	BAP/SRH	498.63	1	12/6/2016	8.81	489.82
JKS-49 Upgradient	BAP/SRH	498.63	498.63 2 2/2		8.56	490.07
JKS-49 Upgradient	BAP/SRH	498.63	3	3/28/2017	8.90	489.73
JKS-49 Upgradient	BAP/SRH	498.63	4	5/2/2017	8.85	489.78
JKS-49 Upgradient	BAP/SRH	498.63	5	6/20/2017	8.75	489.88
JKS-49 Upgradient	BAP/SRH	498.63	6	7/25/2017	8.46	490.17
JKS-49 Upgradient	BAP/SRH	498.63	7	8/29/2017	7.21	491.42
JKS-49 Upgradient	BAP/SRH	498.63	8	10/10/2017	11.17	487.46
JKS-49 Upgradient	BAP/SRH	498.63	9	4/4/2018	9.00	489.63
JKS-49 Upgradient	BAP/SRH	498.63	10	10/30/2018	6.88	491.75
JKS-49 Upgradient	BAP/SRH	498.63	11	4/9/2019	12.52	486.11
JKS-49 Upgradient	BAP/SRH	498.63	12	10/22/2019	14.84	483.79
JKS-49 Upgradient	BAP/SRH	498.63	13	4/23/2020	13.58	485.05
JKS-49 Upgradient	BAP/SRH	498.63	14	10/15/2020	14.42	484.21
JKS-49 Upgradient	BAP/SRH	498.63	15	2/23/2021	13.18	485.45
JKS-49 Upgradient	BAP/SRH	498.63	16	4/8/2021	13.60	485.03
JKS-49 Upgradient	BAP/SRH	498.63	17	6/30/2021	12.46	486.17
JKS-49 Upgradient	BAP/SRH	498.63	18	8/19/2021	11.99	486.64
JKS-49 Upgradient	BAP/SRH	498.63	19	10/5/2021	13.33	485.30
JKS-51 Upgradient	BAP/SRH	496.92	1	12/6/2016	10.76	486.16
JKS-51 Upgradient	BAP/SRH	496.92	2	2/21/2017	10.80	486.12
JKS-51 Upgradient	BAP/SRH	496.92	3	3/28/2017	10.59	486.33
JKS-51 Upgradient	BAP/SRH	496.92	4	5/2/2017	10.56	486.36
JKS-51 Upgradient	BAP/SRH	496.92	5	6/20/2017	10.56	486.36
JKS-51 Upgradient	BAP/SRH	496.92	6	7/25/2017	10.68	486.24
JKS-51 Upgradient	BAP/SRH	496.92	7	8/29/2017	10.48	486.44
JKS-51 Upgradient	BAP/SRH	496.92	8	10/10/2017	10.98	485.94
JKS-51 Upgradient	BAP/SRH	496.92	9	4/4/2018	10.93	485.99
JKS-51 Upgradient	BAP/SRH	496.92	10	10/30/2018	10.45	486.47
JKS-51 Upgradient	BAP/SRH	496.92	11	4/9/2019	11.02	485.90
JKS-51 Upgradient	BAP/SRH	496.92	12	10/22/2019	12.00	484.92
JKS-51 Upgradient	BAP/SRH	496.92	13	4/23/2020	11.79	485.13
JKS-51 Upgradient	BAP/SRH	496.92	14	10/15/2020	12.11	484.81
JKS-51 Upgradient	BAP/SRH	496.92	15	2/23/2021	11.79	485.13
JKS-51 Upgradient	BAP/SRH	496.92	16	4/8/2021	11.80	485.12
JKS-51 Upgradient	BAP/SRH	496.92	17	6/30/2021	11.53	485.39
JKS-51 Upgradient	BAP/SRH	496.92	18	8/19/2021	11.25	485.67
JKS-51 Upgradient	BAP/SRH	496.92	19	10/5/2021	11.67	485.25

Well	CCR Unit	Well Elevation (ft msl)	Event No.	Date	Depth to Water (ft btoc)	Water Level (ft msl)
JKS-48 Downgradient	BAP	497.19	1	12/6/2016	11.47	485.72
JKS-48 Downgradient	BAP	497.19	2	2/21/2017	11.80	485.39
JKS-48 Downgradient	BAP	497.19	3	3/28/2017	11.64	485.55
JKS-48 Downgradient	BAP	497.19	4	5/2/2017	11.72	485.47
JKS-48 Downgradient	BAP	497.19	5	6/20/2017	12.00	485.19
JKS-48 Downgradient	BAP	497.19	6	7/25/2017	11.91	485.28
JKS-48 Downgradient	BAP	497.19	7	8/29/2017	11.77	485.42
JKS-48 Downgradient	BAP	497.19	8	10/10/2017	12.24	484.95
JKS-48 Downgradient	BAP	497.19	9	4/4/2018	12.15	485.04
JKS-48 Downgradient	BAP	497.19	10	10/30/2018	11.73	485.46
JKS-48 Downgradient	BAP	497.19	11	4/9/2019	11.80	485.39
JKS-48 Downgradient	BAP	497.19	12	10/22/2019	12.57	484.62
JKS-48 Downgradient	BAP	497.19	13	4/23/2020	12.41	484.78
JKS-48 Downgradient	BAP	497.19	14	10/15/2020	12.39	484.80
JKS-48 Downgradient	BAP	497.19	15	2/23/2021	12.55	484.64
JKS-48 Downgradient	BAP	497.19	16	4/8/2021	12.33	484.86
JKS-48 Downgradient	BAP	497.19	17	6/30/2021	12.04	485.15
JKS-48 Downgradient	BAP	497.19	18	8/19/2021	12.00	485.19
JKS-48 Downgradient	BAP	497.19	19	10/5/2021	12.20	484.99
JKS-50R Downgradient	BAP	498.48	1	12/6/2016	12.50	485.98
JKS-50R Downgradient	BAP	498.48	2	2/21/2017	12.70	485.78
JKS-50R Downgradient	BAP	498.48	3	3/28/2017	12.32	486.16
JKS-50R Downgradient	BAP	498.48	4	5/2/2017	12.49	485.99
JKS-50R Downgradient	BAP	498.48	5	6/20/2017	12.81	485.67
JKS-50R Downgradient	BAP	498.48	6	7/25/2017	12.78	485.70
JKS-50R Downgradient	BAP	498.48	7	8/29/2017	12.53	485.95
JKS-50R Downgradient	BAP	498.48	8	10/10/2017	13.44	485.04
JKS-50R Downgradient	BAP	498.48	9	4/4/2018	14.03	484.45
JKS-50R Downgradient	BAP	498.48	10	10/30/2018	12.08	486.40
JKS-50R Downgradient	BAP	498.48	11	4/9/2019	13.10	485.38
JKS-50R Downgradient	BAP	498.48	12	10/22/2019	14.10	484.38
JKS-50R Downgradient	BAP	498.48	13	4/23/2020	13.66	484.82
JKS-50R Downgradient	BAP	498.48	14	10/15/2020	13.98	484.50
JKS-50R Downgradient	BAP	498.48	15	2/23/2021	13.99	484.49
JKS-50R Downgradient	BAP	498.48	16	4/8/2021	13.73	484.75
JKS-50R Downgradient	BAP	498.48	17	6/30/2021	13.46	485.02
JKS-50R Downgradient	BAP	498.48	18	8/19/2021	13.12	485.36
JKS-50R Downgradient	BAP	498.48	19	10/5/2021	12.77	485.71

Well	CCR Unit	Well Elevation (ft msl)	Event No.	Date	Depth to Water (ft btoc)	Water Level (ft msl)
JKS-52 Downgradient	BAP/SRH	493.15	1	12/6/2016	7.53	485.62
JKS-52 Downgradient	BAP/SRH	493.15	2	2/21/2017	7.43	485.72
JKS-52 Downgradient	BAP/SRH	493.15	3	3/28/2017	7.33	485.82
JKS-52 Downgradient	BAP/SRH	493.15	4	5/2/2017	7.35	485.80
JKS-52 Downgradient	BAP/SRH	493.15	5	6/20/2017	7.46	485.69
JKS-52 Downgradient	BAP/SRH	493.15	6	7/25/2017	7.50	485.65
JKS-52 Downgradient	BAP/SRH	493.15	7	8/29/2017	7.40	485.75
JKS-52 Downgradient	BAP/SRH	493.15	8	10/10/2017	7.53	485.62
JKS-52 Downgradient	BAP/SRH	493.15	9	4/4/2018	8.48	484.67
JKS-52 Downgradient	BAP/SRH	493.15	10	10/30/2018	8.33	484.82
JKS-52 Downgradient	BAP/SRH	493.15	11	4/9/2019	7.65	485.50
JKS-52 Downgradient	BAP/SRH	493.15	12	10/22/2019	9.40	483.75
JKS-52 Downgradient	BAP/SRH	493.15	13	4/23/2020	8.20	484.95
JKS-52 Downgradient	BAP/SRH	493.15	14	10/15/2020	8.07	485.08
JKS-52 Downgradient	BAP/SRH	493.15	15	2/23/2021	8.17	484.98
JKS-52 Downgradient	BAP/SRH	493.15	16	4/8/2021	8.04	485.11
JKS-52 Downgradient	BAP/SRH	493.15	17	6/30/2021	7.86	485.29
JKS-52 Downgradient	BAP/SRH	493.15	18	8/19/2021	7.59	485.56
JKS-52 Downgradient	BAP/SRH	493.15	19	10/5/2021	7.99	485.16
JKS-55 Downgradient	BAP	493.81	1	12/6/2016	8.15	485.66
JKS-55 Downgradient	BAP	493.81	2	2/21/2017	8.51	485.30
JKS-55 Downgradient	BAP	493.81	3	3/28/2017	8.25	485.56
JKS-55 Downgradient	BAP	493.81	4	5/2/2017	8.40	485.41
JKS-55 Downgradient	BAP	493.81	5	6/20/2017	8.79	485.02
JKS-55 Downgradient	BAP	493.81	6	7/25/2017	8.77	485.04
JKS-55 Downgradient	BAP	493.81	7	8/29/2017	8.59	485.22
JKS-55 Downgradient	BAP	493.81	8	10/10/2017	8.92	484.89
JKS-55 Downgradient	BAP	493.81	9	4/4/2018	8.90	484.91
JKS-55 Downgradient	BAP	493.81	10	10/30/2018	8.25	485.56
JKS-55 Downgradient	BAP	493.81	11	4/9/2019	8.60	485.21
JKS-55 Downgradient	BAP	493.81	12	10/22/2019	9.64	484.17
JKS-55 Downgradient	BAP	493.81	13	4/23/2020	9.19	484.62
JKS-55 Downgradient	BAP	493.81	14	10/15/2020	9.49	484.32
JKS-55 Downgradient	BAP	493.81	15	2/23/2021	9.40	484.41
JKS-55 Downgradient	BAP	493.81	16	4/8/2021	9.19	484.62
JKS-55 Downgradient	BAP	493.81	17	6/30/2021	9.00	484.81
JKS-55 Downgradient	BAP	493.81	18	8/19/2021	8.78	485.03
JKS-55 Downgradient	BAP	493.81	19	10/5/2021	9.13	484.68

ERM ¹⁸

Well	CCR Unit	Well Elevation (ft msl)	Event No.	Date	Depth to Water (ft btoc)	Water Level (ft msl)
JKS-56 Downgradient	BAP	496.66	1	12/6/2016	11.12	485.54
JKS-56 Downgradient	BAP	496.66	2	2/21/2017	10.90	485.76
JKS-56 Downgradient	BAP	496.66	3	3/28/2017	10.50	486.16
JKS-56 Downgradient	BAP	496.66	4	5/2/2017	10.65	486.01
JKS-56 Downgradient	BAP	496.66	5	6/20/2017	11.00	485.66
JKS-56 Downgradient	BAP	496.66	6	7/25/2017	10.95	485.71
JKS-56 Downgradient	BAP	496.66	7	8/29/2017	10.72	485.94
JKS-56 Downgradient	BAP	496.66	8	10/10/2017	11.61	485.05
JKS-56 Downgradient	BAP	496.66	9	4/4/2018	11.13	485.53
JKS-56 Downgradient	BAP	496.66	10	10/30/2018	10.27	486.39
JKS-56 Downgradient	BAP	496.66	11	4/9/2019	11.30	485.36
JKS-56 Downgradient	BAP	496.66	12	10/22/2019	12.34	484.32
JKS-56 Downgradient	BAP	496.66	13	4/23/2020	11.78	484.88
JKS-56 Downgradient	BAP	496.66	14	10/15/2020	12.10	484.56
JKS-56 Downgradient	BAP	496.66	15	2/23/2021	12.09	484.57
JKS-56 Downgradient	BAP	496.66	16	4/8/2021	11.85	484.81
JKS-56 Downgradient	BAP	496.66	17	6/30/2021	11.64	485.02
JKS-56 Downgradient	BAP	496.66	18	8/19/2021	11.30	485.36
JKS-56 Downgradient	BAP	496.66	19	10/5/2021	11.77	484.89
JKS-53 Downgradient	SRH	494.74	1	12/6/2016	7.70	487.04
JKS-53 Downgradient	SRH	494.74	2	2/21/2017	8.52	486.22
JKS-53 Downgradient	SRH	494.74	3	3/28/2017	8.95	485.79
JKS-53 Downgradient	SRH	494.74	4	5/2/2017	8.74	486.00
JKS-53 Downgradient	SRH	494.74	5	6/20/2017	8.47	486.27
JKS-53 Downgradient	SRH	494.74	6	7/25/2017	8.85	485.89
JKS-53 Downgradient	SRH	494.74	7	8/29/2017	8.55	486.19
JKS-53 Downgradient	SRH	494.74	8	10/10/2017	9.21	485.53
JKS-53 Downgradient	SRH	494.74	9	4/4/2018	8.90	485.84
JKS-53 Downgradient	SRH	494.74	10	10/30/2018	8.40	486.34
JKS-53 Downgradient	SRH	494.74	11	4/9/2019	8.96	485.78
JKS-53 Downgradient	SRH	494.74	12	10/22/2019	9.91	484.83
JKS-53 Downgradient	SRH	494.74	13	4/23/2020	9.75	484.99
JKS-53 Downgradient	SRH	494.74	14	10/15/2020	9.73	485.01
JKS-53 Downgradient	SRH	494.74	15	2/23/2021	9.70	485.04
JKS-53 Downgradient	SRH	494.74	16	4/8/2021	9.59	485.15
JKS-53 Downgradient	SRH	494.74	17	6/30/2021	9.25	485.49
JKS-53 Downgradient	SRH	494.74	18	8/19/2021	9.20	485.54
JKS-53 Downgradient	SRH	494.74	19	10/5/2021	9.43	485.31

Well	CCR Unit	Well Elevation (ft msl)	Event No.	Date	Depth to Water (ft btoc)	Water Level (ft msl)
JKS-54 Downgradient	SRH	496.40	1	12/6/2016	10.19	486.21
JKS-54 Downgradient	SRH	496.40	2	2/21/2017	10.48	485.92
JKS-54 Downgradient	SRH	496.40	3	3/28/2017	10.64	485.76
JKS-54 Downgradient	SRH	496.40	4	5/2/2017	10.64	485.76
JKS-54 Downgradient	SRH	496.40	5	6/20/2017	10.71	485.69
JKS-54 Downgradient	SRH	496.40	6	7/25/2017	10.85	485.55
JKS-54 Downgradient	SRH	496.40	7	8/29/2017	9.50	486.90
JKS-54 Downgradient	SRH	496.40	8	10/10/2017	11.17	485.23
JKS-54 Downgradient	SRH	496.40	9	4/4/2018	10.76	485.64
JKS-54 Downgradient	SRH	496.40	10	10/30/2018	10.55	485.85
JKS-54 Downgradient	SRH	496.40	11	4/9/2019	10.75	485.65
JKS-54 Downgradient	SRH	496.40	12	10/22/2019	11.47	484.93
JKS-54 Downgradient	SRH	496.40	13	4/23/2020	11.33	485.07
JKS-54 Downgradient	SRH	496.40	14	10/15/2020	11.47	484.93
JKS-54 Downgradient	SRH	496.40	15	2/23/2021	11.34	485.06
JKS-54 Downgradient	SRH	496.40	16	4/8/2021	11.29	485.11
JKS-54 Downgradient	SRH	496.40	17	6/30/2021	10.99	485.41
JKS-54 Downgradient	SRH	496.40	18	8/19/2021	10.95	485.45
JKS-54 Downgradient	SRH	496.40	19	10/5/2021	11.10	485.30

Notes

ft - feet

msl - mean sea level

btoc - below top of casing

307.11	Well Elevation	Event	5.1.	Depth to Water	Water Level
Well	(ft msl)	No.	Date	(ft btoc)	(ft msl)
JKS-32	497.45	15	2/23/2021	15.56	481.89
JKS-32	497.45	16	4/8/2021	15.20	482.25
JKS-32	497.45	17	6/30/2021	14.81	482.64
JKS-32	497.45	18	8/19/2021	14.45	483.00
JKS-32	497.45	19	10/5/2021	15.04	482.41
JKS-34	495.11	15	2/23/2021	24.43	470.68
JKS-34	495.11	16	4/8/2021	24.13	470.98
JKS-34	495.11	17	6/30/2021	22.22	472.89
JKS-34	495.11	18	8/19/2021	20.57	474.54
JKS-34	495.11	19	10/5/2021	22.89	472.22
JKS-37	509.97	15	2/23/2021	30.36	479.61
JKS-37	509.97	16	4/8/2021	32.04	477.93
JKS-37	509.97	17	6/30/2021	32.09	477.88
JKS-37	509.97	18	8/19/2021	32.02	477.95
JKS-37	509.97	19	10/5/2021	32.11	477.86
JKS-39	504.92	15	2/23/2021	23.87	481.05
JKS-39	504.92	16	4/8/2021	23.46	481.46
JKS-39	504.92	17	6/30/2021	23.40	481.52
JKS-39	504.92	18	8/19/2021	23.20	481.72
JKS-39	504.92	19	10/5/2021	23.57	481.35
JKS-40	494.16	15	2/23/2021	10.85	483.31
JKS-40	494.16	16	4/8/2021	10.47	483.69
JKS-40	494.16	17	6/30/2021	10.74	483.42
JKS-40	494.16	18	8/19/2021	10.43	483.73
JKS-40	494.16	19	10/5/2021	10.97	483.19
JKS-42	493.78	15	2/23/2021	15.09	478.69
JKS-42	493.78	16	4/8/2021	15.47	478.31
JKS-42	493.78	17	6/30/2021	15.31	478.47
JKS-42	493.78	18	8/19/2021	14.62	479.16
JKS-42	493.78	19	10/5/2021	15.37	478.41
JKS-43	528.58	15	2/23/2021	46.31	482.27
JKS-43	528.58	16	4/8/2021	46.22	482.36
JKS-43	528.58	17	6/30/2021	46.53	482.05
JKS-43	528.58	18	8/19/2021	46.43	482.15
JKS-43	528.58	19	10/5/2021	46.37	482.21
JKS-44	540.55	15	2/23/2021	65.10	475.45
JKS-44	540.55	16	4/8/2021	64.92	475.63
JKS-44	540.55	17	6/30/2021	66.30	474.25
JKS-44	540.55	18	8/19/2021	65.13	475.42
JKS-44	540.55	19	10/5/2021	65.17	475.38

Well	Well Elevation (ft msl)	Event No.	Date	Depth to Water (ft btoc)	Water Level (ft msl)
JTD-1	504.02	15	2/23/2021	18.68	485.34
JTD-1	504.02	16	4/8/2021	18.34	485.68
JTD-1	504.02	17	6/30/2021	12.48	491.54
JTD-1	504.02	18	8/19/2021	18.25	485.77
JTD-1	504.02	19	10/5/2021	18.45	485.57
JTD-2	500.36	15	2/23/2021	15.66	484.70
JTD-2	500.36	16	4/8/2021	15.60	484.76
JTD-2	500.36	17	6/30/2021	15.35	485.01
JTD-2	500.36	18	8/19/2021	15.20	485.16
JTD-2	500.36	19	10/5/2021	15.54	484.82
JTD-4	532.28	15	2/23/2021	40.74	491.54
JTD-4	532.28	16	4/8/2021	40.74	491.54
JTD-4	532.28	17	6/30/2021	39.79	492.49
JTD-4	532.28	18	8/19/2021	40.90	491.38
JTD-4	532.28	19	10/5/2021	40.60	491.68
JTD-5	499.30	15	2/23/2021	13.90	485.40
JTD-5	499.30	16	4/8/2021	13.64	485.66
JTD-5	499.30	17	6/30/2021	13.83	485.47
JTD-5	499.30	18	8/19/2021	13.60	485.70
JTD-5	499.30	19	10/5/2021	13.77	485.53

Notes

ft - feet

msl - mean sea level

btoc - below top of casing

FIGURES



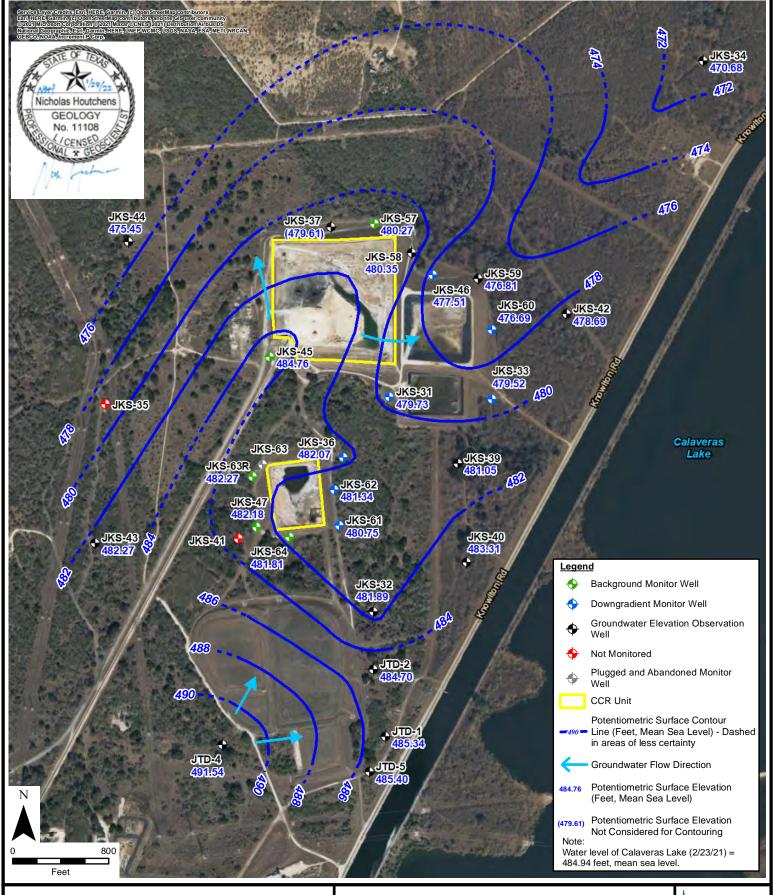
 DESIGN:
 NH
 DRAWN:
 LSC
 CHKD.:
 WZ

 DATE:
 1/13/2022
 SCALE:
 AS SHOWN
 REVISION:
 2

 WUSBDCF-002/abd/20/CDSCab/, Well-loce, review
 Violation of Control of C

FIGURE 1
CCR WELL NETWORK LOCATION MAP
CPS Energy - Calaveras Power Station
San Antonio, Texas





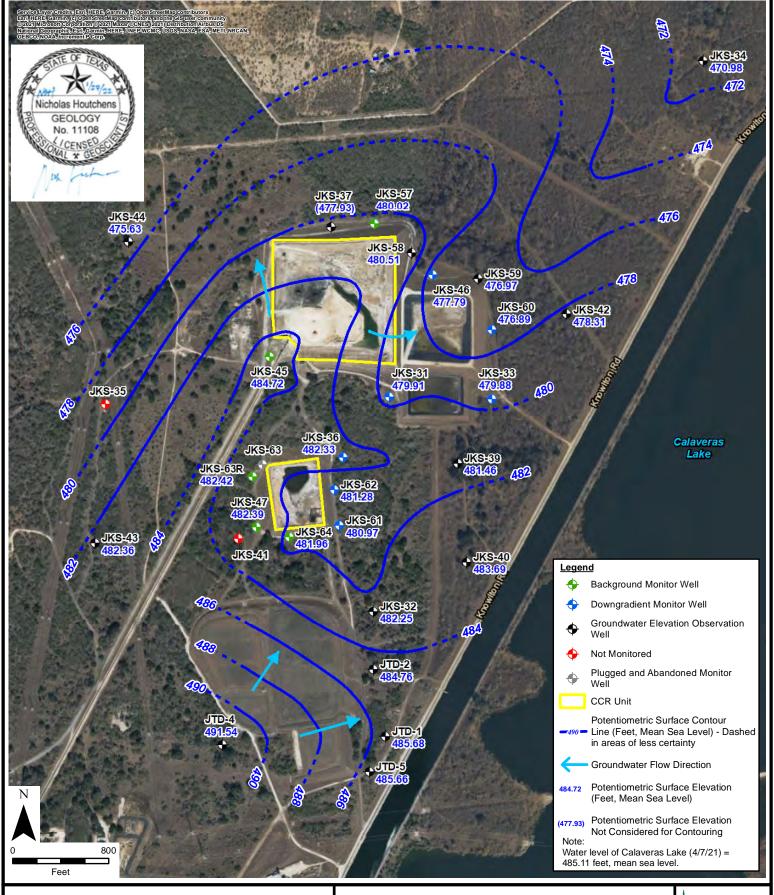
 DESIGN:
 NH
 DRAWN:
 LSC
 CHKD.:
 WZ

 DATE:
 1/7/2022
 SCALE:
 AS SHOWN
 REVISION:
 1

 \USBDCFS02/Data\Housf\u00f6\u00f6\u00f6\u00f7\u00f6\u00f6\u00f6\u00f7\u00f6\u00f6\u00f6\u00f6\u00f7\u00f6\u00f

FIGURE 2A
POTENTIOMETRIC SURFACE MAP FEBRUARY 2021
Northern CCR Units
CPS Energy - Calaveras Power Station
San Antonio, Texas





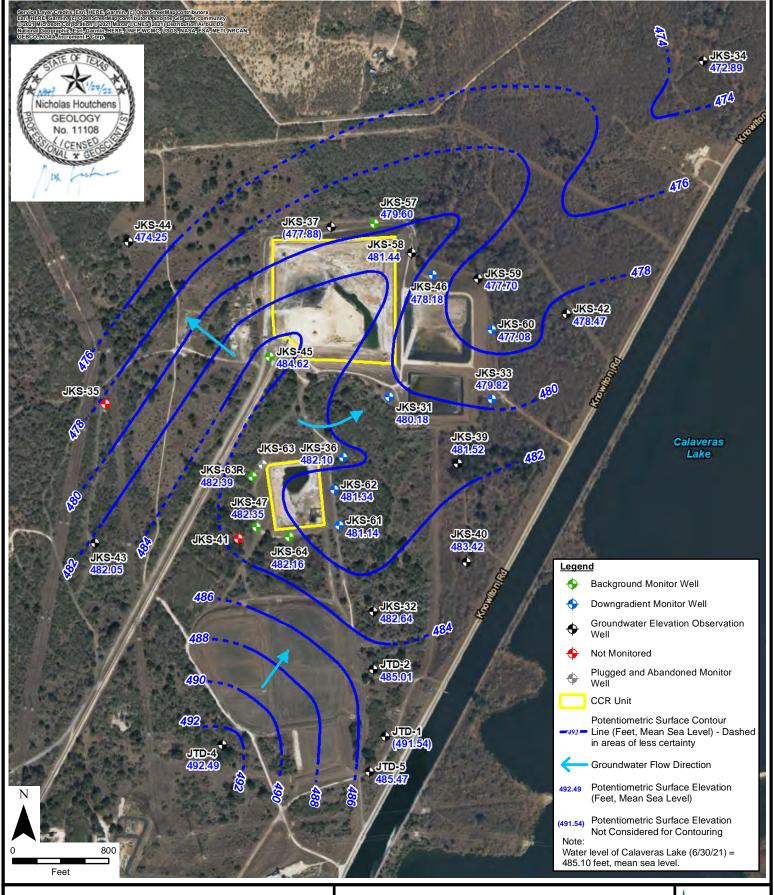
 DESIGN:
 NH
 DRAWN:
 LSC
 CHKD.:
 WZ

 DATE:
 1/7/2022
 SCALE:
 AS SHOWN
 REVISION:
 1

 \USBDCFS02DataHousEnProjects\u00fc050422 CPS
 Energy Calaveras 2019 CCR Tasks.WZ\GIS_CAD\u00e4XD2021gwmo

FIGURE 2B
POTENTIOMETRIC SURFACE MAP APRIL 2021
Northern CCR Units
CPS Energy - Calaveras Power Station
San Antonio, Texas





 DESIGN:
 NH
 DRAWN:
 LSC
 CHKD.:
 WZ

 DATE:
 1/7/2022
 SCALE:
 AS SHOWN
 REVISION:
 1

 NUSBDCFS02/Data/Housfor/Projects/I0503422 CPS Energy Calaveras 2019 CCR Tasks.WZ/GIS_CAD/MXDI/2021gwmo
 Tasks.WZ/GIS_CAD/MXDI/2021gwmo

FIGURE 2C
POTENTIOMETRIC SURFACE MAP JUNE 2021
Northern CCR Units
CPS Energy - Calaveras Power Station
San Antonio, Texas



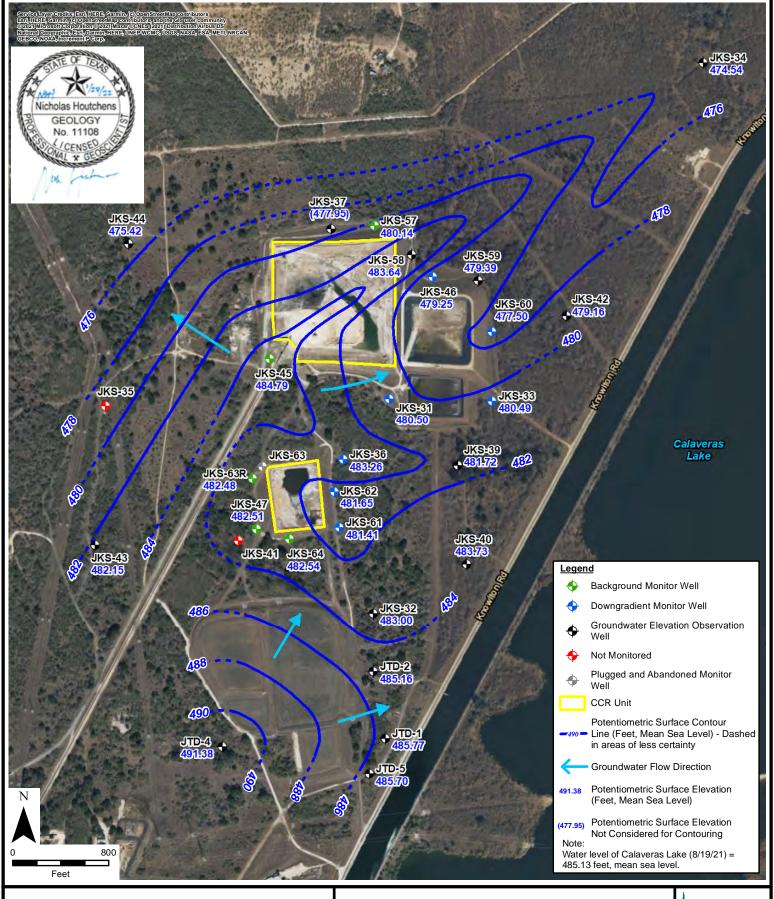
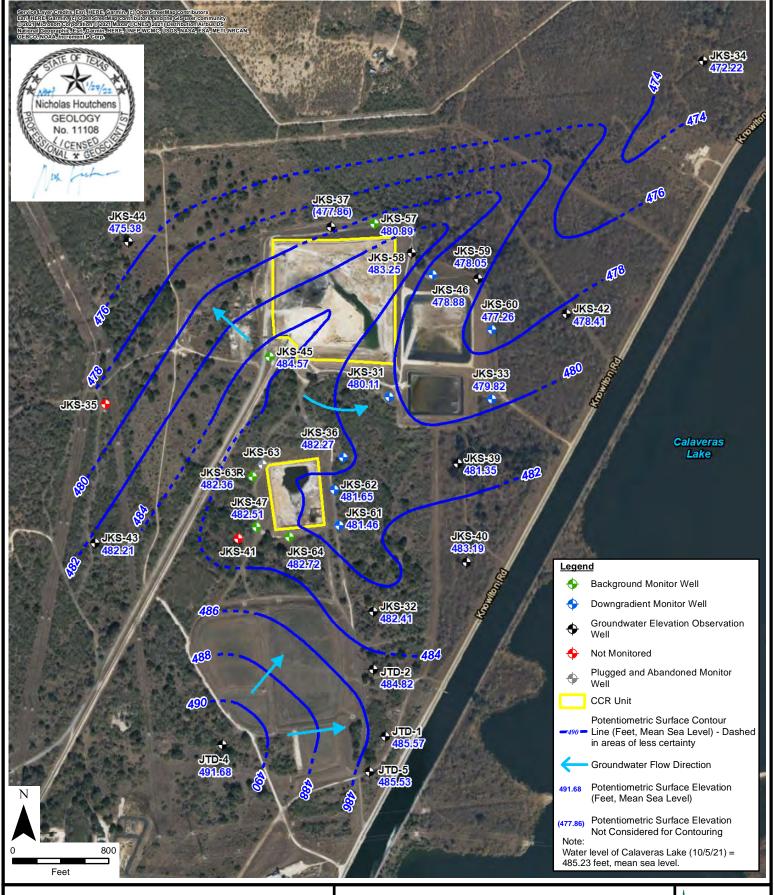


 FIGURE 2D
POTENTIOMETRIC SURFACE MAP AUGUST 2021
Northern CCR Units
CPS Energy - Calaveras Power Station
San Antonio, Texas





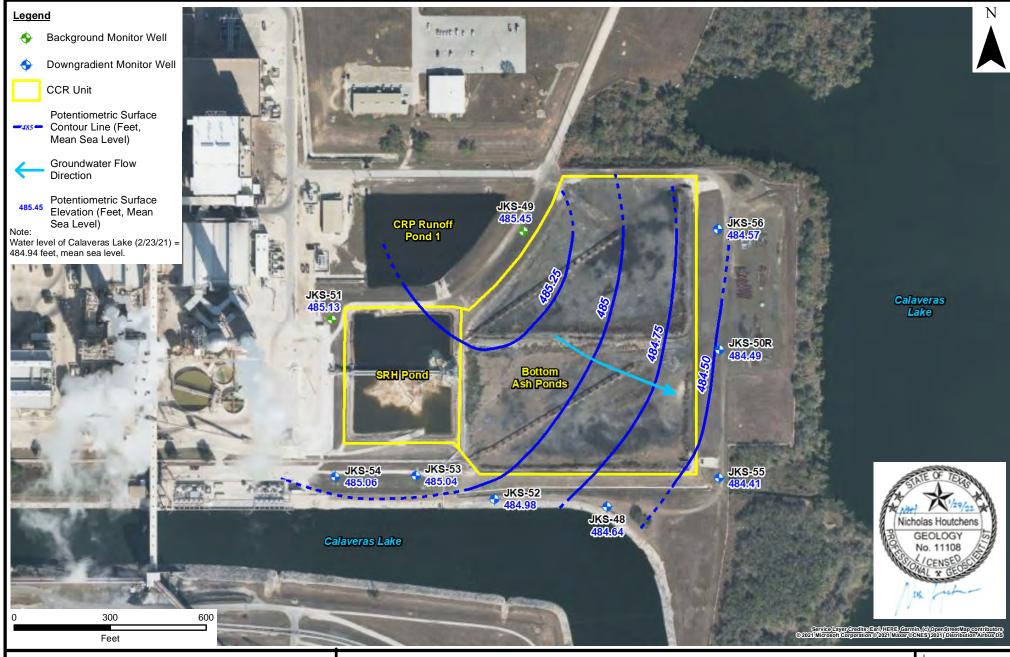
 DESIGN:
 NH
 DRAWN:
 LSC
 CHKD.:
 WZ

 DATE:
 1/7/2022
 SCALE:
 AS SHOWN
 REVISION:
 1

 \USBDCFS02lDataHous66nProjects\u00fc0503422 CPS Energy Calaveras 2019 CCR Tasks.WZ\u00fcGCAD\u00fcMXDl2021gwmo

FIGURE 2E
POTENTIOMETRIC SURFACE MAP OCTOBER 2021
Northern CCR Units
CPS Energy - Calaveras Power Station
San Antonio, Texas





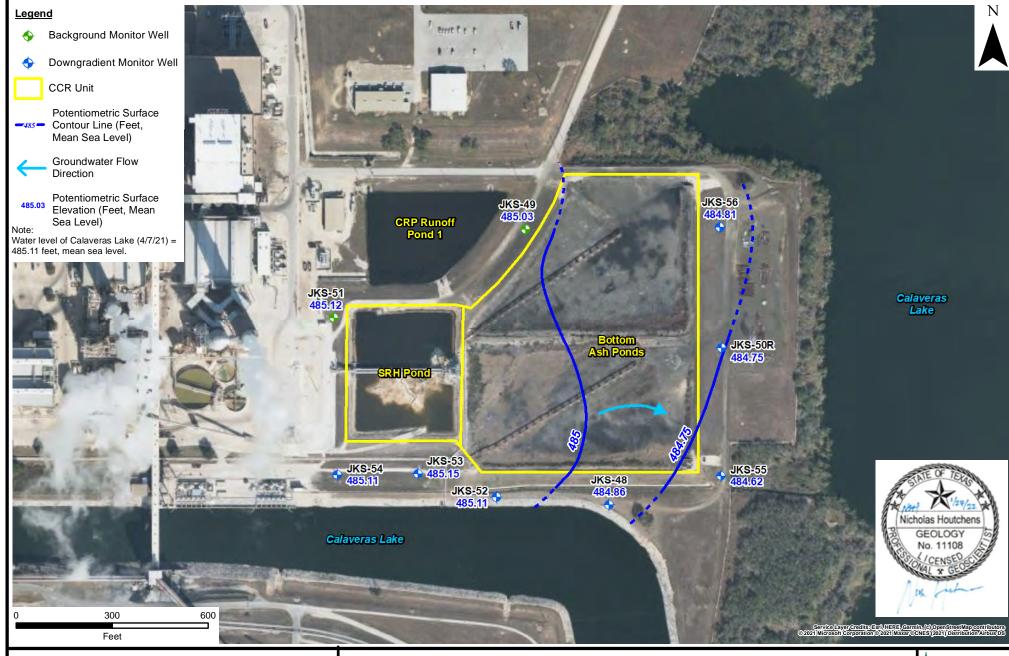
 DESIGN:
 NH
 DRAWN:
 LSC
 CHKD.:
 WZ

 DATE:
 1/13/2022
 SCALE:
 AS SHOWN
 REVISION:
 2

 WUSBDCFS02iDataHouston Pojects0503422 CPS Energy Calaveras 2019 CCR Tasks.WZiGIS_CADIMXDI2021gwmon\/202102_fig2A_0503422_CPSCalv_BoldshPond_BasemapPointag mxd
 2

FIGURE 3A
POTENTIOMETRIC SURFACE MAP FEBRUARY 2021
Southern CCR Units
CPS Energy - Calaveras Power Station
San Antonio, Texas





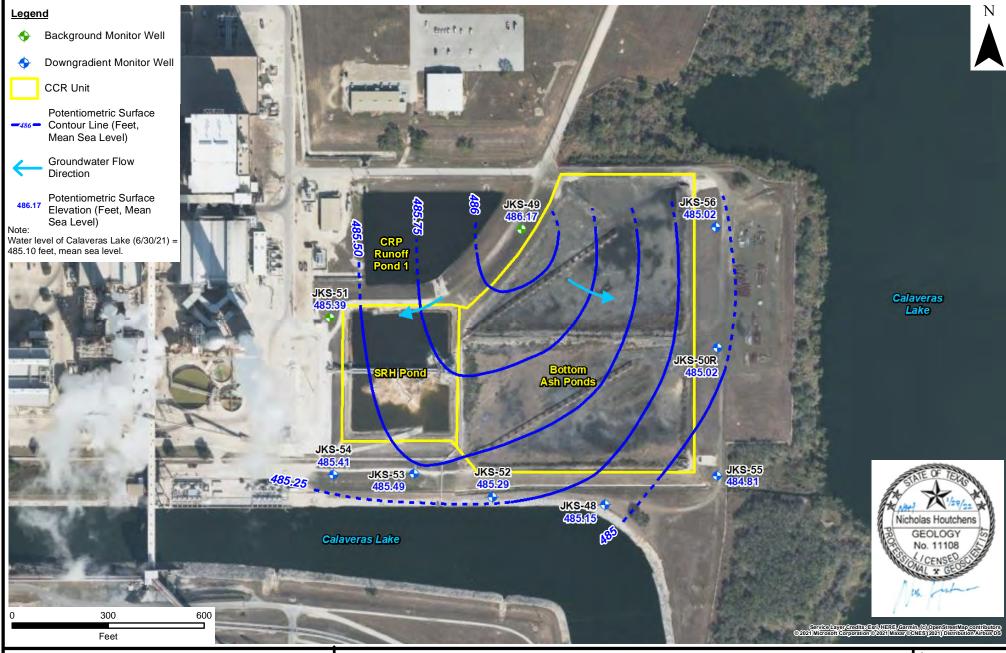
 DESIGN:
 NH
 DRAWN:
 LSC
 CHKD.:
 WZ

 DATE:
 1/13/2022
 SCALE:
 AS SHOWN
 REVISION:
 2

 WUSBDCFS02IDataHoustoMPlojects06503422 CPS Energy Calaveras 2019 CCR Tasks WZIGIS_CADIMXD12021gwmon\/202104_fig2B_0503422_CPSCalv_BoldAshPond_BasemapPotnap.mxd
 REVISION:
 2

FIGURE 3B
POTENTIOMETRIC SURFACE MAP APRIL 2021
Southern CCR Units
CPS Energy - Calaveras Power Station
San Antonio, Texas





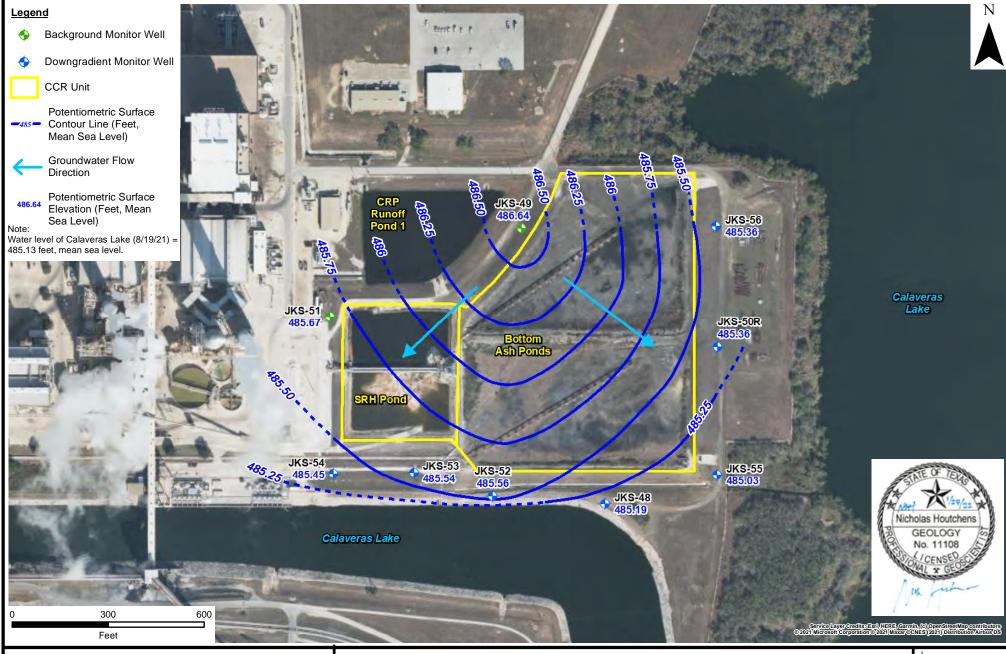
 DESIGN:
 NH
 DRAWN:
 LSC
 CHKD.:
 WZ

 DATE:
 1/13/2022
 SCALE:
 AS SHOWN
 REVISION:
 3

 WUSBDCFS02iDataHoustofff-pjects/0503422 CPS Energy Calaveras 2019 CCR Tasks WZ/GIS_CAD/MXDI2021gwmon\/202106_fig2C_0503422_CPSCalv_Bol/AshPond_BasemapPointagFinal.mxd
 AS SHOWN
 REVISION:
 3

FIGURE 3C
POTENTIOMETRIC SURFACE MAP JUNE 2021
Southern CCR Units
CPS Energy - Calaveras Power Station
San Antonio, Texas





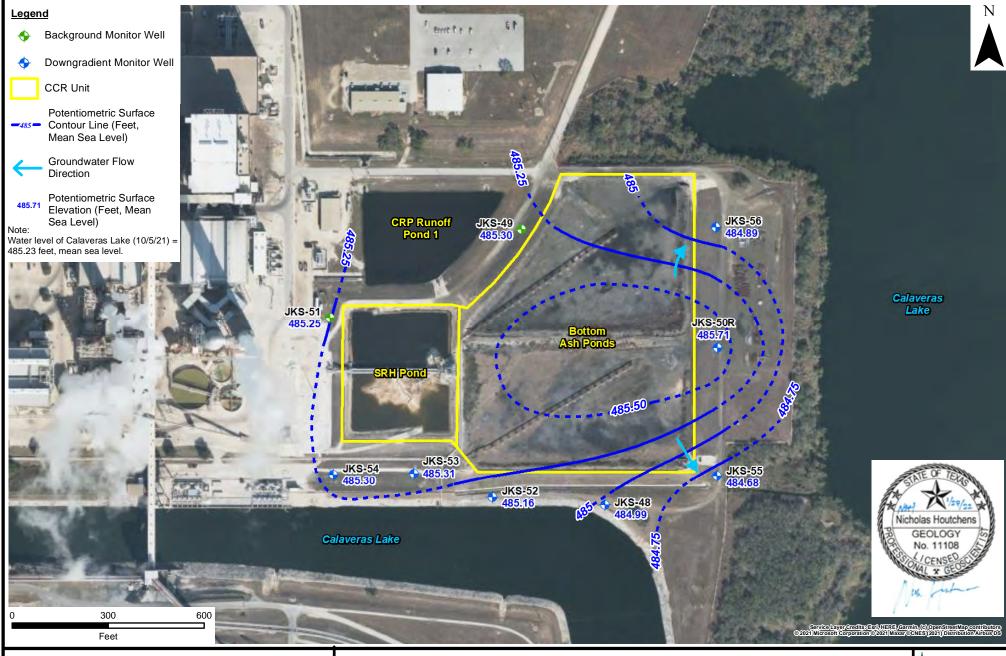
 DESIGN:
 NH
 DRAWN:
 LSC
 CHKD.:
 WZ

 DATE:
 1/13/2022
 SCALE:
 AS SHOWN
 REVISION:
 3

 NUSBDCFS02IDataHoustoMPr0jects06503422 CPS Energy Calaveras 2019 CCR Tasks. WZ/IGIS_CADMXD12021gwmon\/202108_lfig2D_0503422_CPSCalv_BotAshPond_BasemapPointaghrinal.mxd
 REVISION:
 3

FIGURE 3D
POTENTIOMETRIC SURFACE MAP AUGUST 2021
Southern CCR Units
CPS Energy - Calaveras Power Station
San Antonio, Texas





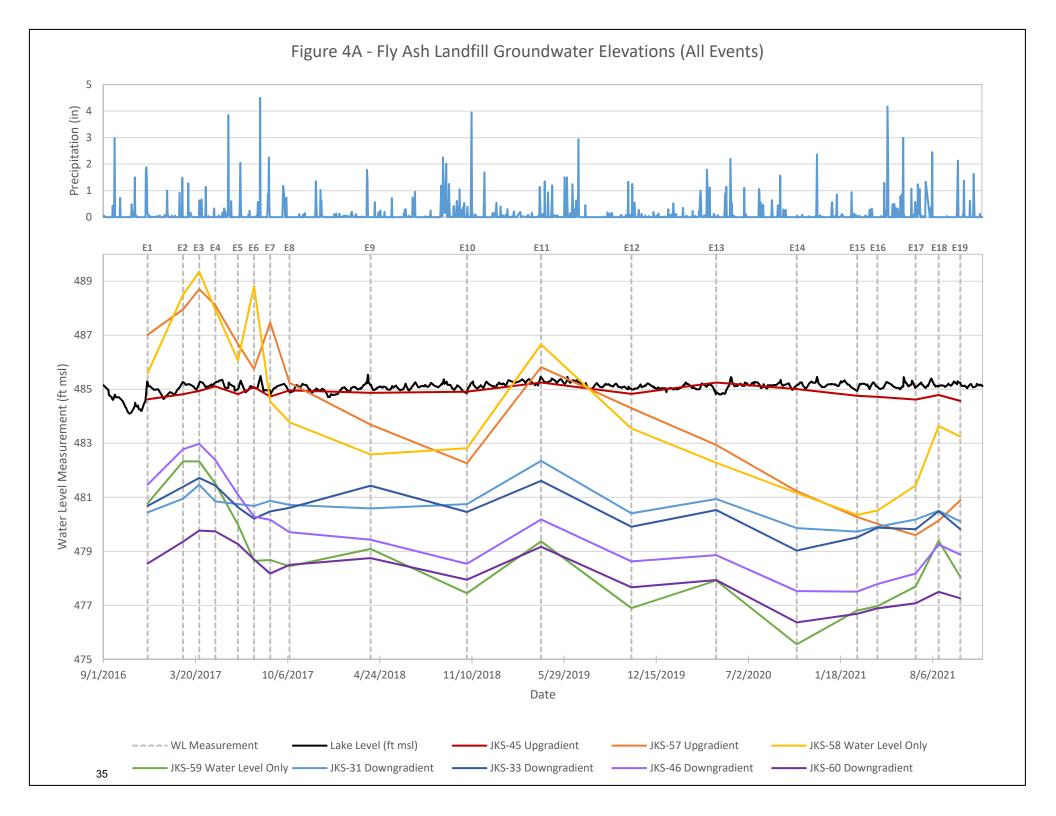
 DESIGN:
 NH
 DRAWN:
 LSC
 CHKD.:
 WZ

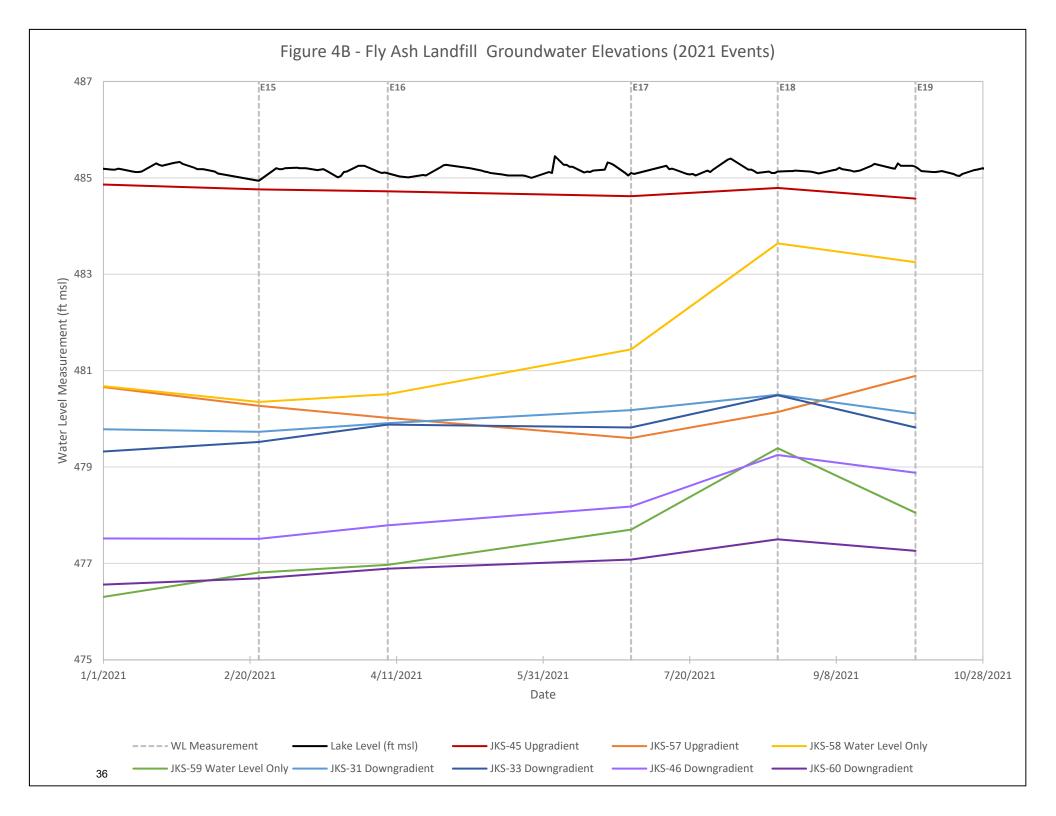
 DATE:
 1/13/2022
 SCALE:
 AS SHOWN
 REVISION:
 4

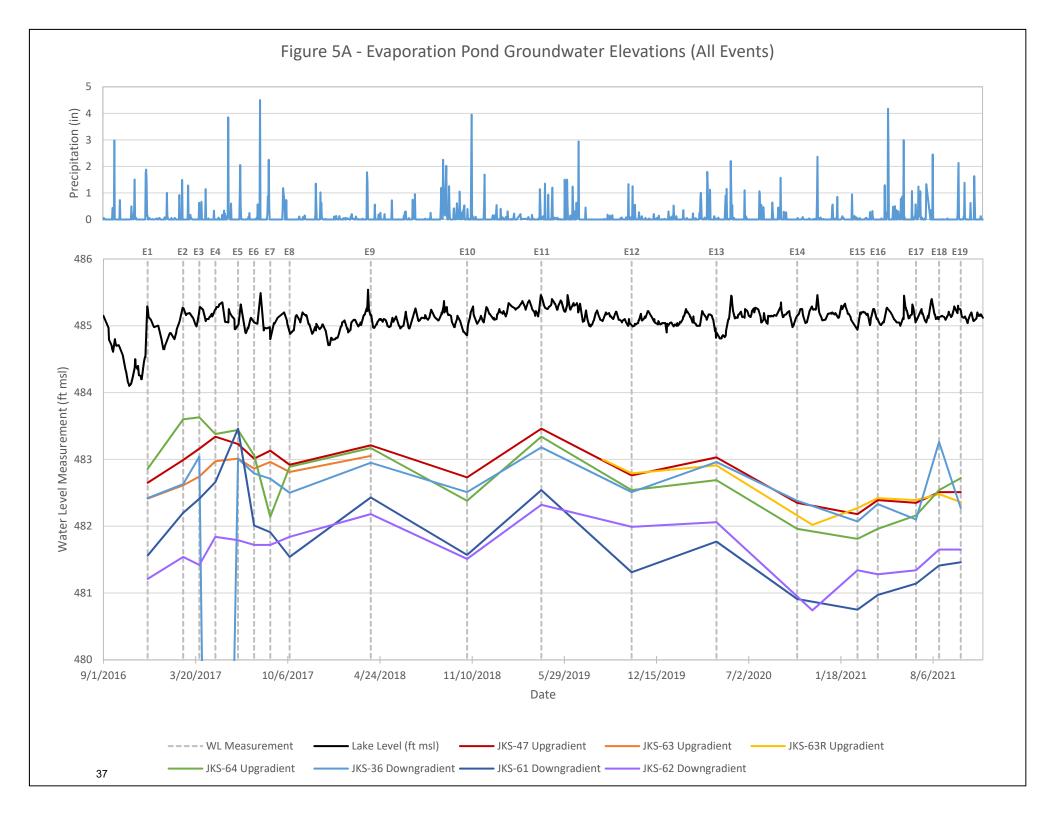
 WUSBDCFS02iDatal+OustonProjects0503422 CPS Energy Calaveras 2019 CCR Tasks.WZiGIS_CADIMXD12021gwmon\/202110_fig2E_0503422_CPSCalv_Bol/shPond_BasemapPointain.mxd
 AssemapPointain.mxd

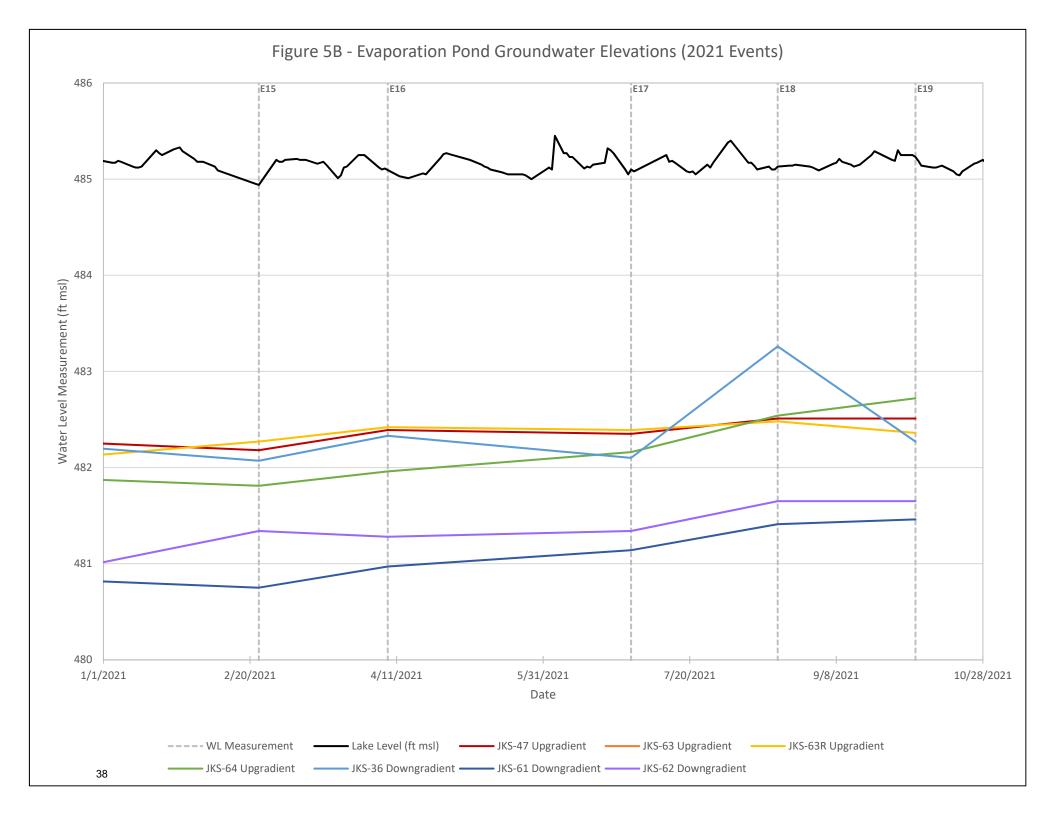
FIGURE 3E
POTENTIOMETRIC SURFACE MAP OCTOBER 2021
Southern CCR Units
CPS Energy - Calaveras Power Station
San Antonio, Texas

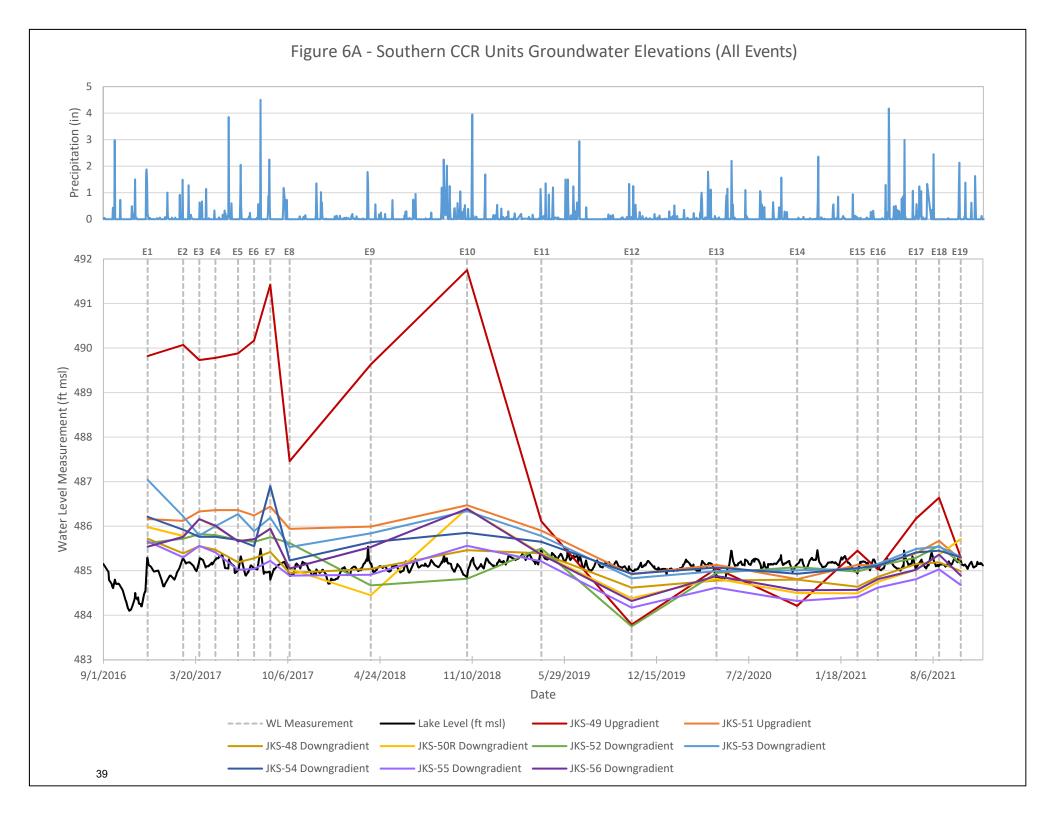


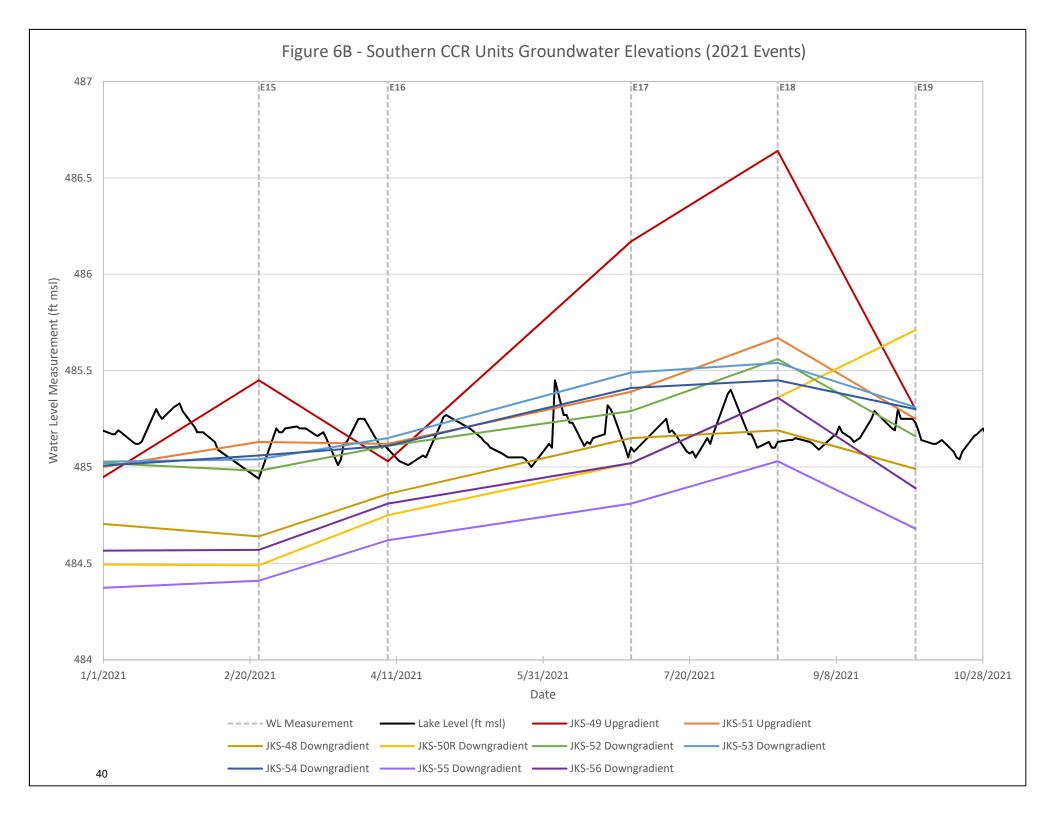


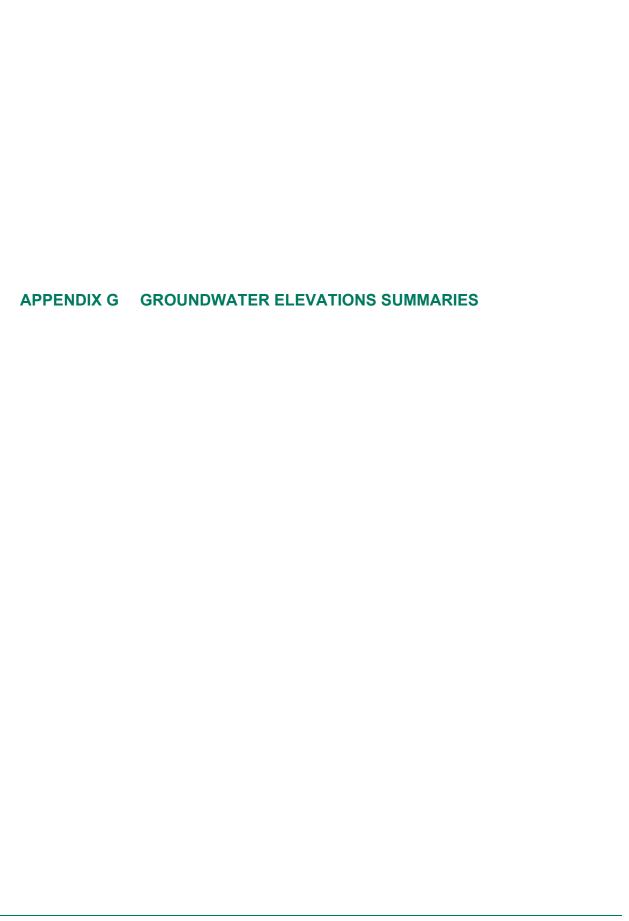












www.erm.com Version: 1.0 Project No.: 0681818 Client: CPS Energy August 18, 2023

TABLE 1 Groundwater Elevations Summary CPS Energy - Calaveras Power Station Fly Ash Landfill

		JKS-45 U	S-45 Upgradient JKS-57 Upgradien		pgradient	JKS-58 Wate	r Level Only	JKS-59 Water Level Only	
		TOC Elevation	531.46	TOC Elevation	506.91	TOC Elevation	504.45	TOC Elevation	496.45
Sampling Event	Sampling Event Dates	Depth to Water (feet btoc)	Water Level (msl)	Depth to Water (feet btoc)	Water Level (msl)	Depth to Water (feet btoc)	Water Level (msl)	Depth to Water (feet btoc)	Water Level (msl)
1	12/6/16 to 12/8/16	46.83	484.63	19.89	487.02	18.85	485.60	15.67	480.78
2	2/21/17 to 2/23/17	46.64	484.82	18.95	487.96	15.95	488.50	14.12	482.33
3	3/28/17 to 3/30/17	46.52	484.94	18.20	488.71	15.10	489.35	14.12	482.33
4	5/2/17 to 5/4/17	46.35	485.11	18.80	488.11	16.50	487.95	14.94	481.51
5	6/20/17 to 6/21/17	46.64	484.82	20.23	486.68	18.38	486.07	16.46	479.99
6	7/25/17 to 7/26/17	46.38	485.08	21.16	485.75	15.63	488.82	17.80	478.65
7	8/29/17 to 8/30/17	46.73	484.73	19.44	487.47	19.90	484.55	17.77	478.68
8	10/10/17 to 10/11/17	46.50	484.96	21.67	485.24	20.67	483.78	18.00	478.45
9	4/4/18 to 4/5/18	46.59	484.87	23.22	483.69	21.86	482.59	17.36	479.09
10	10/30/18 to 10/31/18	46.55	484.91	24.65	482.26	21.63	482.82	19.00	477.45
11	4/9/19 to 4/10/19	46.21	485.25	21.09	485.82	17.79	486.66	17.08	479.37
12	10/22/19 to 10/23/19	46.63	484.83	22.61	484.30	20.90	483.55	19.55	476.90
13	4/28/20 to 4/29/20	46.21	485.25	23.97	482.94	22.17	482.28	18.53	477.92
14	10/20/20 to 10/21/20	46.45	485.01	25.68	481.23	23.29	481.16	20.89	475.56
15	4/13/21 to 4/14/21	46.74	484.72	26.89	480.02	23.94	480.51	19.48	476.97
16	10/19/21 to 10/20/21	46.89	484.57	26.02	480.89	21.20	483.25	18.40	478.05
17	4/13/22 to 4/14/22	47.14	484.32	25.55	481.36	22.72	481.73	18.15	478.30
18	10/25/22 to 10/26/22	47.24	484.22	26.76	480.15	23.93	480.52	21.27	475.18

		JKS-31 Downgradient		JKS-33 Dov	vngradient	JKS-46 Do	wngradient	JKS-60 Downgradient		
		TOC Elevation	507.79	TOC Elevation	498.96	TOC Elevation	499.08	TOC Elevation	495.70	
Sampling Event	Sampling Event Dates	Depth to Water (feet btoc)	Water Level (msl)	Depth to Water (feet btoc)	Water Level (msl)	Depth to Water (feet btoc)	Water Level (msl)	Depth to Water (feet btoc)	Water Level (msl)	
1	12/6/16 to 12/8/16	27.01	480.44	18.03	480.68	17.61	481.47	17.15	478.55	
2	2/21/17 to 2/23/17	26.50	480.95	17.32	481.39	16.30	482.78	16.34	479.36	
3	3/28/17 to 3/30/17	25.98	481.47	16.99	481.72	16.10	482.98	15.93	479.77	
4	5/2/17 to 5/4/17	26.60	480.85	17.27	481.44	16.70	482.38	15.96	479.74	
5	6/20/17 to 6/21/17	26.70	480.75	18.08	480.63	17.98	481.10	16.43	479.27	
6	7/25/17 to 7/26/17	26.77	480.68	18.50	480.21	18.80	480.28	17.00	478.70	
7	8/29/17 to 8/30/17	26.58	480.87	18.23	480.48	18.91	480.17	17.52	478.18	
8	10/10/17 to 10/11/17	26.73	480.72	18.10	480.61	19.37	479.71	17.20	478.50	
9	4/4/18 to 4/5/18	26.86	480.59	17.28	481.43	19.65	479.43	16.95	478.75	
10	10/30/18 to 10/31/18	26.70	480.75	18.25	480.46	20.54	478.54	17.75	477.95	
11	4/9/19 to 4/10/19	25.10	482.35	17.10	481.61	18.90	480.18	16.53	479.17	
12	10/22/19 to 10/23/19	27.04	480.41	18.80	479.91	20.45	478.63	18.03	477.67	
13	4/28/20 to 4/29/20	26.51	480.94	18.18	480.53	20.22	478.86	17.76	477.94	
14	10/20/20 to 10/21/20	27.59	479.86	19.68	479.03	21.55	477.53	19.33	476.37	
15	4/13/21 to 4/14/21	27.54	479.91	18.83	479.88	21.29	477.79	18.81	476.89	
16	10/19/21 to 10/20/21	27.34	480.11	18.89	479.82	20.20	478.88	18.44	477.26	
17	4/13/22 to 4/14/22	27.23	480.56	18.24	480.72	20.81	478.27	17.99	477.71	
18	10/25/22 to 10/26/22	28.02	479.77	20.01	478.95	21.90	477.18	20.07	475.63	

btoc = below top of casing msl = mean sea level

TABLE 1 Groundwater Elevations Summary
CPS Energy - Calaveras Power Station
Evaporation Pond

		JKS-47 Upg	gradient (1)	JKS-63 U	pgradient	JKS-63R U	pgradient	JKS-64 Downgradient		
		TOC Elevation	513.63	TOC Elevation	526.86	TOC Elevation	522.27	TOC Elevation	507.84	
Sampling Event	Sampling Event Dates	Depth to Water	Water Level	Depth to Water	Water Level	Depth to Water	Water Level	Depth to Water	Water Level	
Sampling Event	Sampling Event Dates	(feet btoc)	(msl)	(feet btoc)	(msl)	(feet btoc)	(msl)	(feet btoc)	(msl)	
1	12/6/16 to 12/8/16	30.98	482.65	44.45	482.41	(4)	(4)	24.98	482.86	
2	2/21/17 to 2/23/17	30.64	482.99	44.25	482.61	(4)	(4)	24.24	483.60	
3	3/28/17 to 3/30/17	30.47	483.16	44.12	482.74	(4)	(4)	24.21	483.63	
4	5/2/17 to 5/4/17	30.29	483.34	43.89	482.97	(4)	(4)	24.46	483.38	
5	6/20/17 to 6/21/17	30.40	483.23	43.85	483.01	(4)	(4)	24.40	483.44	
6	7/25/17 to 7/26/17	30.62	483.01	44.00	482.86	(4)	(4)	24.78	483.06	
7	8/29/17 to 8/30/17	30.50	483.13	43.90	482.96	(4)	(4)	25.70	482.14	
8	10/10/17 to 10/11/17	30.71	482.92	44.05	482.81	(4)	(4)	24.95	482.89	
9	4/4/18 to 4/5/18	30.42	483.21	43.81	483.05	(4)	(4)	24.67	483.17	
10	10/30/18 to 10/31/18	30.90	482.73	(2)	(2)	(4)	(4)	25.46	482.38	
11	4/9/19 to 4/10/19	30.17	483.46	(2)	(2)	39.27 (5)	483.00	24.50	483.34	
12	10/22/19 to 10/23/19	30.87	482.76	(3)	(3)	39.48	482.79	25.30	482.54	
13	4/28/20 to 4/29/20	30.60	483.03	(3)	(3)	39.36	482.91	25.15	482.69	
14	10/20/20 to 10/21/20	31.28	482.35	(3)	(3)	40.25 (6)	482.02	25.88	481.96	
15	4/13/21 to 4/14/21	31.24	482.39	(3)	(3)	39.85	482.42	25.88	481.96	
16	10/19/21 to 10/20/21	31.12	482.51	(3)	(3)	39.91	482.36	25.12	482.72	
17	4/13/22 to 4/14/22	31.26	482.37	(3)	(3)	39.90	482.37	29.58	478.26	
18	10/13/22 to 10/14/22	31.73	481.90	(3)	(3)	40.32	481.95	26.20	481.64	

		JKS-36 Downgradient		JKS-61 Do	wngradient	JKS-62 Downgradient		
		TOC Elevation	508.51	TOC Elevation	505.51	TOC Elevation	509.84	
Sampling Event	Sampling Event Dates	Depth to Water	Water Level	Depth to Water	Water Level	Depth to Water	Water Level	
Sampling Event	Sampling Event Dates	(feet btoc)	(msl)	(feet btoc)	(msl)	(feet btoc)	(msl)	
1	12/6/16 to 12/8/16	25.99	482.42	23.95	481.56	28.63	481.21	
2	2/21/17 to 2/23/17	25.78	482.63	23.31	482.20	28.30	481.54	
3	3/28/17 to 3/30/17	25.37	483.04	23.10	482.41	28.42	481.42	
4	5/2/17 to 5/4/17	43.89	464.52	22.85	482.66	28.00	481.84	
5	6/20/17 to 6/21/17	25.40	483.01	22.05	483.46	28.05	481.79	
6	7/25/17 to 7/26/17	25.62	482.79	23.50	482.01	28.12	481.72	
7	8/29/17 to 8/30/17	25.70	482.71	23.60	481.91	28.12	481.72	
8	10/10/17 to 10/11/17	25.91	482.50	23.97	481.54	28.00	481.84	
9	4/4/18 to 4/5/18	25.46	482.95	23.08	482.43	27.66	482.18	
10	10/30/18 to 10/31/18	25.90	482.51	23.94	481.57	28.33	481.51	
11	4/9/19 to 4/10/19	25.23	483.18	22.97	482.54	27.52	482.32	
12	10/22/19 to 10/23/19	25.90	482.51	24.20	481.31	27.85	481.99	
13	4/28/20 to 4/29/20	25.45	482.96	23.74	481.77	27.78	482.06	
14	10/20/20 to 10/21/20	26.03	482.38	24.60	480.91	29.10 (6)	480.74	
15	4/13/21 to 4/14/21	26.08	482.33	24.54	480.97	28.56	481.28	
16	10/19/21 to 10/20/21	26.14	482.27	24.05	481.46	28.19	481.65	
17	4/13/22 to 4/14/22	26.28	482.23	23.93	481.58	28.25	481.59	
18	10/13/22 to 10/14/22	26.44	482.07	25.37	480.14	28.95	480.89	

btoc = below top of casing

msl = mean sea level

- (1) JKS-47 was re-sampled on 2/28/17.

- (1) JNS-47 Was re-sample on 2/25/17.
 (2) Blockage in JKS-63 well casing.
 (3) JKS-63 was plugged and abandoned on 5/2/19
 (4) JKS-63R was installed on 5/2/19.
 (5) JKS-63R water level was initially measured on 8/20/19.
- (6) JKS-62 and JKS-63R were gauged on 11/17/20, due to a blockage encountered in the well casing during Event 14 (October 2020)

TABLE 1 Groundwater Elevations Summary
CPS Energy - Calaveras Power Station
Plant Drains Pond

l		JKS-66 Upgradient		JKS-65 Downgradient		JKS-67 Downgradient		JKS-68 Downgradient		JKS-69 Downgradient	
		TOC Elevation	517.65	TOC Elevation	518.53	TOC Elevation	503.29	TOC Elevation	506.34	TOC Elevation	515.82
Monitoring Event	Monitoring Event Dates	Depth to Water	Water Level	Depth to Water	Water Level	Depth to Water	Water Level	Depth to Water	Water Level	Depth to Water	Water Level
		(feet btoc)	(msl)	(feet btoc)	(msl)	(feet btoc)	(msl)	(feet btoc)	(msl)	(feet btoc)	(msl)
1	10/15/2020	28.02	489.63	30.30	488.23	16.64	486.65	NM		NM	1
2	04/08/2021	28.53	489.12	30.70	487.83	16.85	486.44	NM		NM	
3	10/05/2021	28.28	489.37	37.20	481.33	15.24	488.05	NM		NM	
4	04/07/2022	29.17	488.48	30.88	487.65	16.33	486.96	NM		NM	
5	10/13/2022	29.16	488.49	31.22	487.31	17.32	485.97	19.84	486.50	28.28	487.54

btoc = below top of casing
msl = mean sea level
NM = Not measured (JKS-68 and JKS-69 installed in July 2022)

ERM

TABLE 1 Groundwater Elevations Summary CPS Energy - Calaveras Power Station Bottom Ash Ponds

		JKS-49 Downgradient		JKS-51 U	pgradient	JKS-48 Dov	vngradient	JKS-50R Downgradient		
		TOC Elevation	498.63	TOC Elevation	496.92	TOC Elevation	497.19	TOC Elevation	498.48	
Sampling Event	Sampling Event Dates	Depth to Water (feet btoc)	Water Level (msl)	Depth to Water (feet btoc)	Water Level (msl)	Depth to Water (feet btoc)	Water Level (msl)	Depth to Water (feet btoc)	Water Level (msl)	
1	12/6/16 to 12/8/16	8.81	489.82	10.76	486.16	11.47	485.72	12.50	485.98	
2	2/21/17 to 2/23/17	8.56	490.07	10.80	486.12	11.80	485.39	12.70	485.78	
3	3/28/17 to 3/30/17	8.90	489.73	10.59	486.33	11.64	485.55	12.32	486.16	
4	5/2/17 to 5/4/17	8.85	489.78	10.56	486.36	11.72	485.47	12.49	485.99	
5	6/20/17 to 6/21/17	8.75	489.88	10.56	486.36	12.00	485.19	12.81	485.67	
6	7/25/17 to 7/26/17	8.46	490.17	10.68	486.24	11.91	485.28	12.78	485.70	
7	8/29/17 to 8/30/17	7.21	491.42	10.48	486.44	11.77	485.42	12.53	485.95	
8	10/10/17 to 10/11/17	11.17	487.46	10.98	485.94	12.24	484.95	13.44	485.04	
9	4/4/18 to 4/5/18	9.00	489.63	10.93	485.99	12.15	485.04	14.03	484.45	
10	10/30/18 to 10/31/18	6.88	491.75	10.45	486.47	11.73	485.46	12.08	486.40	
11	4/9/19 to 4/10/19	12.52	486.11	11.02	485.90	11.80	485.39	13.10	485.38	
12	10/22/19 to 10/23/19	14.84	483.79	12.00	484.92	12.57	484.62	14.10	484.38	
13	4/28/20 to 4/29/20	13.58	485.05	11.79	485.13	12.41	484.78	13.66	484.82	
14	10/20/20 to 10/21/20	14.42	484.21	12.11	484.81	12.39	484.80	13.98	484.50	
15	4/13/21 to 4/14/21	13.60	485.03	11.80	485.12	12.33	484.86	13.73	484.75	
16	10/19/21 to 10/20/21	13.33	485.30	11.67	485.25	12.20	484.99	12.77	485.71	
17	4/13/22 to 4/14/22	14.16	484.47	12.25	484.67	12.60	484.59	14.19	484.29	
18	10/25/22 to 10/26/22	14.81	483.82	12.53	484.39	12.48	484.71	14.17	484.31	

		JKS-52 Dov	wngradient	JKS-55 Do	wngradient	JKS-56 Downgradient		
		TOC Elevation	493.15	TOC Elevation	493.81	TOC Elevation	496.66	
Sampling Event	Sampling Event Dates	Depth to Water (feet btoc)	Water Level (msl)	Depth to Water (feet btoc)	Water Level (msl)	Depth to Water (feet btoc)	Water Level (msl)	
1	12/6/16 to 12/8/16	7.53	485.62	8.15	485.66	11.12	485.54	
2	2/21/17 to 2/23/17	7.43	485.72	8.51	485.30	10.90	485.76	
3	3/28/17 to 3/30/17	7.33	485.82	8.25	485.56	10.50	486.16	
4	5/2/17 to 5/4/17	7.35	485.80	8.40	485.41	10.65	486.01	
5	6/20/17 to 6/21/17	7.46	485.69	8.79	485.02	11.00	485.66	
6	7/25/17 to 7/26/17	7.50	485.65	8.77	485.04	10.95	485.71	
7	8/29/17 to 8/30/17	7.40	485.75	8.59	485.22	10.72	485.94	
8	10/10/17 to 10/11/17	7.53	485.62	8.92	484.89	11.61	485.05	
9	4/4/18 to 4/5/18	8.48	484.67	8.90	484.91	11.13	485.53	
10	10/30/18 to 10/31/18	8.33	484.82	8.25	485.56	10.27	486.39	
11	4/9/19 to 4/10/19	7.65	485.50	8.60	485.21	11.30	485.36	
12	10/22/19 to 10/23/19	9.40	483.75	9.64	484.17	12.34	484.32	
13	4/28/20 to 4/29/20	8.20	484.95	9.19	484.62	11.78	484.88	
14	10/20/20 to 10/21/20	8.07	485.08	9.49	484.32	12.10	484.56	
15	4/13/21 to 4/14/21	8.04	485.11	9.19	484.62	11.85	484.81	
16	10/19/21 to 10/20/2021	7.99	485.16	9.13	484.68	11.77	484.89	
17	4/13/22 to 4/14/22	8.34	484.81	9.61	484.20	12.42	484.24	
18	10/25/22 to 10/26/22	8.19	484.96	9.62	484.19	12.60	484.06	

btoc = below top of casing msl = mean sea level

TABLE 1 Groundwater Elevations Summary CPS Energy - Calaveras Power Station SRH Pond

		JKS-49 Unclassifed		JKS-51 Upgradient		JKS-52 Downgradient		JKS-53 Downgradient		JKS-54 Dow	ngradient
		TOC Elevation	498.63	TOC Elevation	496.92	TOC Elevation	493.15	TOC Elevation	494.74	TOC Elevation	496.40
Sampling Event	Sampling Event Dates	Depth to Water	Water Level	Depth to Water	Water Level	Depth to Water	Water Level	Depth to Water	Water Level	Depth to Water	Water Level
	10/0/10 / 10/0/10	(feet btoc)	(msl)	(feet btoc)	(msl)	(feet btoc)	(msl)	(feet btoc)	(msl)	(feet btoc)	(msl)
1	12/6/16 to 12/8/16	8.81	489.82	10.76	486.16	7.53	485.62	7.70	487.04	10.19	486.21
2	2/21/17 to 2/23/17	8.56	490.07	10.80	486.12	7.43	485.72	8.52	486.22	10.48	485.92
3	3/28/17 to 3/30/17	8.90	489.73	10.59	486.33	7.33	485.82	8.95	485.79	10.64	485.76
4	5/2/17 to 5/4/17	8.85	489.78	10.56	486.36	7.35	485.80	8.74	486.00	10.64	485.76
5	6/20/17 to 6/21/17	8.75	489.88	10.56	486.36	7.46	485.69	8.47	486.27	10.71	485.69
6	7/25/17 to 7/26/17	8.46	490.17	10.68	486.24	7.50	485.65	8.85	485.89	10.85	485.55
7	8/29/17 to 8/30/17	7.21	491.42	10.48	486.44	7.40	485.75	8.55	486.19	9.50	486.90
8	10/10/17 to 10/11/17	11.17	487.46	10.98	485.94	7.53	485.62	9.21	485.53	11.17	485.23
9	4/4/18 to 4/5/18	9.00	489.63	10.93	485.99	8.48	484.67	8.90	485.84	10.76	485.64
10	10/30/18 to 10/31/18	6.88	491.75	10.45	486.47	8.33	484.82	8.40	486.34	10.55	485.85
11	4/9/19 to 4/10/19	12.52	486.11	11.02	485.90	7.65	485.50	8.96	485.78	10.75	485.65
12	10/22/19 to 10/23/19	14.84	483.79	12.00	484.92	9.40	483.75	9.91	484.83	11.47	484.93
13	4/28/20 to 4/29/20	13.58	485.05	11.79	485.13	8.20	484.95	9.75	484.99	11.33	485.07
14	10/20/20 to 10/21/20	14.42	484.21	12.11	484.81	8.07	485.08	9.73	485.01	11.47	484.93
15	4/13/20 to 4/14/21	13.60	485.03	11.80	485.12	8.04	485.11	9.59	485.15	11.29	485.11
16	10/19/21 to 10/20/21	13.33	485.30	11.67	485.25	7.99	485.16	9.43	485.31	11.10	485.30
17	4/13/22 to 4/14/22	14.16	484.47	12.25	484.67	8.34	484.81	10.00	484.74	11.55	484.85
18	10/25/22 to 10/26/22	14.81	483.82	12.53	484.39	8.19	484.96	9.78	484.96	11.60	484.80

btoc = below top of casing msl = mean sea level



www.erm.com Version: 1.0 Project No.: 0681818 Client: CPS Energy August 18, 2023

GROUNDWATER MONITORING SYSTEM CERTIFICATION

Calaveras Power Station San Antonio, Texas

The owner or operator must obtain a certification from a qualified professional engineer stating that the groundwater monitoring system has been designed and constructed to meet the requirements of 40 CFR §257.91 and 30 TAC §352.911.

According to 40 CFR §257.91(a), the groundwater monitoring system must consist of a sufficient number of wells, installed at appropriate locations and depths, to yield groundwater samples from the uppermost aquifer that:

1. Accurately represent the quality of background groundwater that has not been affected by leakage from a CCR unit; and

2. Accurately represent the quality of groundwater passing the waste boundary of the CCR unit.

40 CFR §257.91(b) states that the number, spacing, and depths of groundwater monitoring system must be determined based upon site-specific technical information that must include a characterization of:

(1) Aquifer thickness, groundwater flow rate, groundwater flow direction; and

(2) Saturated and unsaturated geologic units and fill materials overlying the uppermost aquifer, materials comprising the uppermost aquifer, and materials comprising the confining unit defining the lower boundary of the uppermost aquifer.

30 TAC §352.911 states that

- (a) Texas Commission on Environmental Quality adopts reference 40 CFR §257.91; and
- (d) Installation, plugging, and abandonment of wells or borings must be done in accordance with 16 TAC §76.

CERTIFICATION

I hereby certify that the groundwater monitoring systems for the CCR units located at the Calaveras Power Station have been designed and constructed to meet the requirements of 40 CFR §257.91 and 30 TAC §352.911.

Jeffery L. Mauguss, P.E.

Texas Licensed Professional Engineer No. 86195



ERM has over 160 offices across the following countries and territories worldwide

Argentina The Netherlands Australia New Zealand Belgium Norway Brazil Panama Canada Peru Chile Poland China Portugal Colombia Puerto Rico France Romania Germany Russia Ghana Senegal Guyana Singapore South Africa Hong Kong South Korea India Indonesia Spain Ireland Sweden Italy Switzerland Taiwan Japan Kazakhstan Tanzania Kenya Thailand Malaysia UAE Mexico UK Mozambique US Myanmar Vietnam

ERM's Houston Office

CityCentre Four 840 West Sam Houston Parkway North, Suite 600 Houston, Texas 77024 281-600-1000 (T)

www.erm.com

