NPDES Industrial Permit Outfall Locations

These maps display the locations of the outfalls as well as the discharge sources, such as buildings, cooling towers, and power plants.

EXHIBIT
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Where are the NPDES industrial outfalls?

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Outfall 001

Outfall 001
for the
TA-3-22
Power Plant

Description	The discharge of about 300,000 gallons of treated water per day from Outfall 001 creates a continuous flowing perennial reach in upper Sandia Canyon and supports a 3-acre wetland. Water meets all regulatory standards. Most of the water comes from the Co-Generating Power and Steam Plant, which provides heating to buildings at TA-3 in addition to steam for process needs and to produce electricity in one 10-megawatt and two 5-megawatt steam turbines/generators.
Permitted Discharge	Cooling towers, boiler blow-down drains, demineralizer backwash, R/O reject, floor and sink drains and treated sanitary re-use
Receiving Stream	Upper Sandia Canyon, Segment Number 20.6.4.126
Constituent Monitoring	Flow, TSS, E Coli, Total Residual Chlorine, Metals, pH, Temperature, PCBs, WET
Monitoring Frequency	Variable 1/week, 1/month, 1/year
Reporting Frequency	Monthly and annual Discharge Monitoring Reports (DMRs)

Outfall 13S

Outfall 13S *for the* TA-46-347 Sanitary Wastewater System (SWWS) Plant	
Description	Wastewater from sanitary sewer, other non-radiological drains and storm water from technical areas throughout the Laboratory are treated at the Sanitary Waste Water System Plant. Currently, no water is discharged at Outfall 13s. Treated sanitary effluent is pumped either to Outfall 001, or to the Sanitary Effluent Reclamation Facility (SERF) for tertiary treatment and reuse at the Strategic Computing Complex cooling towers. Outfall 13s is a sampling point after final treatment processes prior to pumping to Outfall 001 or to the SERF.
Permitted Discharge	Treated sanitary wastewater
Receiving Stream	Upper Sandia Canyon in Segment Numbers 20.6.4.126 or Canada Del Buey, Segment Number 20.6.4.128
Constituent Monitoring	Flow, BOD5, TSS, E. Coli, Total Residual Chlorine, pH, PCBs, and WET
Monitoring Frequency	Variable 1/week, 1/month, 1/year
Reporting Frequency	Monthly and annual Discharge Monitoring Reports (DMRs)

Outfall 051

Outfall 051 *for the* TA-50-1 Radioactive	

Liquid Waste Treatment Facility (RLWTF)	
Description	The Radioactive Liquid Waste Treatment Facility treats low level and transuranic radioactive liquid wastewater. A mechanical evaporator was installed so no water has been discharged at Outfall 015 since November 2010. Should the evaporator be offline, wastewater would then treated and discharged in batches to Mortandad Canyon. Discharged water meets all regulatory standards.
Permitted Discharge	Treated radioactive liquid waste
Receiving Stream	Ephemeral reach of Effluent Canyon, tributary to Mortandad Canyon, Segment Number 20.6.4.128
Constituent Monitoring	Flow, COD, TSS, Total Toxic Organics, Metals, Total residual Chlorine, pH, Perchlorate, PCBs, and WET
Monitoring Frequency	Variable 1/week, 1/month, 1/year
Reporting Frequency	Monthly, quarterly and annual Discharge Monitoring Reports (DMRs)

Outfall 05A055

Outfall 05A055 *for the* **TA-16-1508 High Explosives Wastewater Treatment Facility (HEWTF)**	
Description	The High Explosive Wastewater Treatment Facility (HEWTF) treats high explosive contaminated wastewater, storm water, and cooling tower blow-down from various sites in the southeast section of the Laboratory. Since

	an evaporator is normally used, the HEWTF has not discharged since November 2007. Should this malfunction, high explosives wastewater influent is effectively treated through multiple processes before being discharged into Cañon de Valle.
Permitted Discharge	Treated high explosives wastewater, storm water, and cooling tower blow-down
Receiving Stream	Ephemeral tributary to Canon de Valle, Segment Number 20.6.4.128
Constituent Monitoring	Flow, COD, TSS, Oil & Grease, Total Toxic Organics, TNT, RDX, Perchlorate, pH and WET
Monitoring Frequency	Variable 1/week, 1/month, 1/quarter, 1/year
Reporting Frequency	Monthly, quarterly and annual Discharge Monitoring Reports (DMRs)

Outfall 03A022

Outfall 03A022 *for the* TA-3-2274 Sigma Cooling Tower

Description	Water discharged here includes treated cooling tower blow-down water and storm water from roof drains which is then discharged into Mortandad Canyon. Discharged water meets all regulatory standards. Under emergency facility shut down due to a power outage emergency cooling water, which is potable, overflows from the circulating water pump basin directly to this outfall.
Permitted Discharge	Cooling tower blow-down, storm water, emergency cooling water (potable water)
Receiving Stream	Ephemeral reach of Mortandad Canyon, Segment Number 20.6.4.128

Constituent Monitoring	Flow, TSS, Total Residual Chlorine, Phosphorus, Metals, pH and WET
Monitoring Frequency	Variable 1/day, 1/week, 1/quarter, 1/year
Reporting Frequency	Monthly, quarterly and annual Discharge Monitoring Reports (DMRs)

Outfall 03A181

Outfall 03A181 *for the* TA-55-6 Cooling Tower

Description	Treated blow-down water from the Plutonium Facility cooling tower is discharged into Mortandad Canyon. Discharged water meets all regulatory standards.
Permitted Discharge	Cooling tower blow-down and other wastewater
Receiving Stream	Ephemeral reach of Mortandad Canyon, Segment Number 20.6.4.128
Constituent Monitoring	Flow, TSS, Total Residual Chlorine, Metals, pH and WET
Monitoring Frequency	Variable 1/day, 1/week, 1/month, 1/quarter, 1/year
Reporting Frequency	Monthly, quarterly and annual Discharge Monitoring Reports (DMRs)

Outfall 03A027

Outfall 03A027 *for the* TA-3-285 & 23127 Strategic Computing Complex (SCC) Cooling Towers

Description	The Strategic Computing Center cooling towers use treated effluent from the SERF facility to conserve potable water resources. The cooling tower blow-down consists of circulation water from the potable water system treated to remove minerals and biota and/or treated effluent from SERF. Water which meets all regulatory standards is then discharged into Sandia Canyon.
Permitted Discharge	Cooling tower blow-down and tertiary treated sanitary wastewater from SERF
Receiving Stream	Upper Sandia Canyon, Segment Number 20.6.4.126
Constituent Monitoring	Flow, TSS, E Coli, Total Residual Chlorine, Phosphorus, Metals, pH and WET
Monitoring Frequency	Variable 1/day, 1/week, 1/quarter and 1/year
Reporting Frequency	Monthly, quarterly and annual Discharge Monitoring Reports (DMRs)

Outfall 03A113

Outfall 03A113
for the
TA-53 Low Energy Demonstration Accelerator (LEDA) Cooling Towers

Description	Treated water from cooling tower blow-down and storm water from parking lots and roof drains is discharged into Sandia Canyon. Discharged water meets all regulatory standards.
Permitted Discharge	Cooling tower blow-down, and storm water runoff
Receiving Stream	Ephemeral tributary to Sandia Canyon, Segment Number 20.6.4.128

Towers

Description	Cooling towers for the Los Alamos Neutron Science Center provide cooling to equipment and systems at the accelerator facility. The treated water discharged into Los Alamos Canyon meets all regulatory standards.
Permitted Discharge	Cooling tower blow-down
Receiving Stream	Ephemeral tributary to Los Alamos Canyon, Segment Number 20.6.4.128
Constituent Monitoring	Flow, TSS, Total Residual Chlorine, Phosphorous, Metals, pH and WET
Monitoring Frequency	Variable 1/day, 1/week, 1/month, 1/quarter
Reporting Frequency	Monthly and quarterly Discharge Monitoring Reports (DMRs)

Outfall 03A160

Outfall 03A160
for the
TA-35-124/595 National High Magnetic Field Laboratory (NHMFL) Cooling Tower

Description	A cooling tower provides water cooling to equipment and systems at the National High Magnetic Field Laboratory. The water is treated using a corrosion inhibitor then batched into two storage tanks. Water from these tanks is treated to remove copper prior to discharge into Ten-Site Canyon. Discharged water meets all regulatory standards.
Permitted Discharge	Cooling tower blow-down
Receiving Stream	Ephemeral tributary of Ten Site Canyon, Segment Number 20.6.4.128

Constituent Monitoring	Flow, TSS, Phosphorous, Metals, pH and WET
Monitoring Frequency	Variable 1/day, 1/week, 1/month1 /quarter
Reporting Frequency	Monthly and quarterly Discharge Monitoring Reports (DMRs)