

DEPURADORA DE PORTINATX (IBIZA)

ESTUDIO DE DILUCIÓN DEL EMISARIO SUBMARINO DE PORTINATX

DICIEMBRE 2015

PROES

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1. OBJETO

En este documento se muestran los resultados de la modelación numérica de la dilución producida en campo cercano por la conducción de vertido del emisario submarino de la EDAR de Sant Joan de Lebritja y la verificación de la normativa respecto a emisarios submarinos y el cumplimiento con la legislación en lo relativo a la calidad de las aguas de baño.

Se ha revisado el funcionamiento del tramo difusor de este emisario con su configuración actual y con los caudales de salida previstos en el proyecto para la modificación de la EDAR, mediante el uso del software de simulación numérica especializada CORMIX, de reconocida solvencia.

En este estudio, se ha considerado la información proporcionada por el Ayuntamiento de Sant Joan de Labritja relativa al estado actual del emisario submarino existente de Portimatx y al proyecto constructivo de la EDAR de Portinatx.

2. MODELO DE DILUCIÓN

Para el desarrollo de este estudio de dilución en campo cercano se ha hecho uso de CORMIX, una herramienta informática diseñada específicamente como ayuda en la toma de decisiones relativas al diseño de tramos difusores para vertidos de efluentes líquidos en medios acuosos.

El CORMIX (*CORnell MIXing Zone Expert System*) fue desarrollado en la Universidad de Cornell (USA) por G. H. Jirka y R. L. Doneker y presenta un sistema eficiente de modelado tridimensional que representa numerosos procesos de mezcla y transporte con un alto detalle espacial y para múltiples sistemas complejos de descarga sometidos a diferentes condiciones ambientales.

CORMIX es adecuado para predecir los impactos producidos en el campo cercano por descargas de fuente puntual y sus repercusiones en la calidad del agua del medio receptor.

Su eficiencia y facilidad de uso lo han convertido en la herramienta estándar para los estudios de impacto ambiental de vertidos de la U.S. E.P.A, así como en un referente internacional en la materia.

CORMIX permite simular la descarga de:

- Aguas residuales convencionales
- Vertidos industriales
- Vertidos térmicos
- Salmueras de rechazo de desalinizadoras.

3. LOCALIZACIÓN Y CARACTERÍSTICAS DE LA PLANTA

El emisario de vertido de efluentes de Portinatx, se encuentra en la cala del mismo nombre y perteneciente al término municipal de Sant Joan de Labritja, en la zona norte de la isla de Eivissa. Las coordenadas donde se produce el vertido de las aguas residuales son 39° 06,988' N; 1° 30,723' E y una profundidad de 32,2 metros.

La descarga de los efluentes del proceso, se realiza en forma gravitacional por vasos comunicantes y mediante un emisario submarino en PVC de diámetro 400, que parte desde la estación de bombeo en tierra con un tramo terrestre de aproximadamente 300 metros y, posteriormente discurre con un trazado marino de 900 metros que sale perpendicular a la línea de costa. En el extremo final del emisario se encuentra un difusor en forma de "T" con dos salidas para verter el agua residual sobre el medio receptor.

El fondo marino en el punto de vertido se compone de arena, si bien en la primera mitad del tramo marino, el más próximo a la costa, hay posidonias.

El emisario submarino consta de los siguientes cinco tramos:

- Tramo I: Comprende desde la lengua de mar hasta 200 m. mar adentro. Este tramo es el que tiene una mayor cantidad de sustrato (roca madre, arena, cantos rodados y Posidonia oceánica).
- Tramos II: Comprende el tramo entre 200 m. y 400 m. El fondo es arena y grupos de Posidonia Oceánica a excepción de una pequeña zona (en torno a los 355 m.) que hay roca madre.
- Tramo III: Comprende el tramo entre 400 m y 600 m. El fondo, en la primera mitad del tramo, se compone de arena junto con grupos de Posidonia Oceánica y en la segunda mitad del tramo únicamente hay arena. A los 485 m, se le une una tubería procedente de una cala cercana "el club", que posee numerosas e importantes fugas, por lo que no se tiene en cuenta en este estudio.
- Tramo IV: Comprende de los 600 m a 800m. El fondo se compone de arena, por lo que existe movimiento de sustrato con la corriente marina. Este hecho facilita que se encuentren mayor número de fugas, al ser más visibles, y de cierta importancia.
- Tramo V: Comprende de los 800 m y 900 m. El emisario tiene su fin a una cota de -32,2m. El fondo se compone de arena. En el extremo final se pueden apreciar numerosos restos de tubería, lastres, cabos, etc..

La estación depuradora se encuentra aproximadamente a 1500 metros tierra adentro a una elevación de 65,15 metros.

La Estación depuradora tiene una alta temporalidad, ya que al estar localizada en una zona turística, durante el verano tiene un aumento considerable de aguas residuales, y por tanto de aguas a verter.

Los caudales de vertido registrados en los últimos años son:

- En verano (julio y agosto): 1300 m³/día
- En invierno: entre 200 y 400 m³/día

Los datos previstos en el proyecto para la nueva EDAR, en que se aumenta el caudal de diseño del emisario, son los siguientes:

			Unidad
	Verano	Invierno	
Población de diseño	11667	583	Hab. Equiv.
Dotación	171	171	l/hab/dia
Caudal medio diario	2000	100	m ³ /dia
Caudal medio horario	83,33	4,17	m ³ /hora
Caudal máximo horario	250	12,50	m ³ /hora
Caudal máximo de diseño de los colectores emisarios	338,83	16,94	m ³ /hora
Caudal máximo diseño emisario horario	0,0941	0,0941	m ³ /s
Temperatura del proceso para diseño volumen	18	12	°C
Temperatura del proceso para necesidades Oxígeno	22	18	°C

Tabla 1. Datos de la nueva EDAR de Sant Joan de Labritja.

Por tanto, para el presente estudio se analizará la dilución en campo cercano para un caudal de diseño de la nueva planta de 0,0941 m³/s.

4. PARÁMETROS DE ENTRADA

Para definir el escenario de trabajo en CORMIX y realizar el análisis de dilución en campo cercano es necesario introducir los siguientes parámetros de entrada.

Para el medio receptor:

- Profundidad del fondo marino en el punto medio del difusor (m).
- Velocidad del viento en la superficie (m/s).
- Densidad media del medio receptor (kg/m³).
- Velocidad de la componente horizontal de la corriente ambiental (m/s).
- Pendiente del fondo marino (°).

Para el efluente:

- Caudal de vertido del efluente (m^3/s).
- Densidad del efluente (kg/m^3).
- Concentración de coliformes (NMP/100 ml)
- Tasa de decaimiento (h)

Para el difusor propuesto, que en nuestro caso será simple por tratarse de un difusor con un solo elevador:

- Distancia desde tierra al inicio y al final del difusor.
- Lado del difusor más próximo a tierra.
- Altura del punto de descarga con respecto al fondo marino (m).
- Superficie de salida del puerto de descarga (m), que será el correspondiente a la superficie total de los dos puertos del difusor en forma de "T" del presente emisario.
- Contracción del puerto.
- Orientación de la corriente ambiental en relación al difusor ($^\circ$).
- Ángulo entre el eje del puerto o chorro y el eje del difusor ($^\circ$).
- Ángulo vertical de salida del puerto con respecto al plano horizontal ($^\circ$).

Para el presente estudio, los datos de partida en la elaboración del análisis de dilución del sistema difusor del emisario submarino han sido los siguientes:

- Condiciones ambientales del medio receptor:
 - Profundidad del fondo marino en la zona de vertido: 32,2 m.
 - Densidad del medio marino: 1029 kg/m^3
 - Velocidad de la corriente del mar: 0,1 m/s.
 - Velocidad del viento en la superficie: 0 m/s.
- Datos del efluente:
 - Caudal de diseño de vertido: 0,095 m^3/s
 - Densidad del agua de vertido: 1004 kg/m^3
 - Concentración de contaminantes microbianos:
 - Entrecocos intestinales 10⁸ UFC /100 ml
 - Escherina coli. 10⁸ UFC /100 ml

- Tasa de decaimiento: 1,1 hora
- Datos del difusor:
 - Difusor simple.
 - Distancia desde tierra al difusor: 900 m.
 - Lado del difusor más próximo a tierra: lado izquierdo.
 - Altura del punto de descarga con respecto al fondo marino: 0.30 m.
 - Superficie de salida del puerto de descarga: 0.0629 m².
 - Contracción del puerto: 1.
 - Orientación de la corriente ambiental en relación al difusor: 90 °.
 - Ángulo vertical de salida del puerto respecto al plano horizontal 90°.

5. REQUERIMIENTOS DE CALIDAD PARA LOS EFLUENTES

En la práctica del diseño de emisarios, los condicionantes normativos habituales consisten en el cumplimiento simultáneo de tres criterios de calidad:

- Cargas contaminantes máximas del efluente. Se refiere a las características del efluente a salida de planta, antes de su descarga al mar.
- Dilución inicial mínima. Dilución a conseguir por efecto del tramo difusor.
- Umbrales de calidad del agua. Valores exigibles para las propiedades físico-químicas del medio receptor en una zona determinada. La prognosis del cumplimiento de los umbrales en el medio receptor se efectúa mediante modelos numéricos de evolución en campo lejano (fuera del alcance de este estudio).

En la dilución de un emisario submarino de vertido de aguas residuales, en que se descarga al mar a través de las boquillas de un difusor, existen tres mecanismos que producen la reducción de coliformes al entrar en contacto las aguas evacuadas con las aguas del cuerpo receptor, que son, dilución inicial, difusión horizontal y decaimiento de coliformes, teniendo éste último un efecto mucho mayor.

La capacidad de transmitir infecciones del agua residual se caracteriza mediante la concentración de bacterias coliformes, en n° unidades/100 cm³, principalmente de la "Escherichia Coli", que vive en el intestino, y que indica la presencia de

contaminación de aguas fecales. Las bacterias fecales, presentan altas tasas de mortalidad en el entorno marino debido principalmente a la incidencia de la luz, especialmente la frecuencia ultravioleta, la salinidad, nutrientes e interacciones ecológicas con otras especies. La tasa de decaimiento conjuga todos estos factores y estima la rapidez con que el ambiente es capaz de neutralizar la contaminación bacteriana, y se expresa internacionalmente a través del T-90, que representa el tiempo en el cual "decae" en una unidad logarítmica el número de bacterias presentes en el medio marino, lo que finalmente se traduce en el tiempo en que se ha eliminado el 90% de las bacterias. La constante de decaimiento se obtiene por regresión lineal de cuentas de bacteria en el tiempo, y normalmente se expresa en términos del tiempo, horas, requerido para que la bacteria decrezca hasta 1/10 de su número original.

La dilución inicial es el principal criterio de diseño usado para establecer la configuración del difusor, la longitud del emisor, y acotar la profundidad de descarga. En este caso al tratarse de una conducción existente todos estos parámetros están predeterminados conforme a lo indicado en el apartado anterior. A su vez, es el único criterio que se puede analizar mediante el estudio de dilución en campo cercano.

Asimismo, conforme a la Orden de 23 de julio de 1993 por la que se aprueba la "instrucción para el proyecto de conducciones de vertidos desde tierra al mar", y a falta de otras referencias, el criterio de diseño habitual en emisarios de aguas residuales es exigir una dilución de 1:100 en el límite del campo cercano, cuando el medio receptor no se encuentra estratificado, como es en el caso del emisario de Portinatx.

Dado que el objetivo del trabajo es comprobar un cierto grado de dilución y no un valor absoluto de concentración, se ha efectuado el estudio en términos relativos, es decir, suponiendo un exceso del 100% de concentración del efluente sobre la del medio receptor y analizar las diluciones obtenidas y el porcentaje de dilución en el límite del campo cercano.

En una segunda fase del presente estudio, se va a analizar la dilución inicial en términos absolutos de concentración de los parámetros considerados para el control

de la calidad de las aguas de baño, conforme a lo indicado en el Real Decreto 1341/2007, sobre la gestión de la calidad de las aguas de baño, y en el Plan Hidrológico de las Islas Baleares del 2015, anejo 3, en que se disponen los siguientes parámetros obligatorios y valores para aguas costeras y de transición:

	Calidad		Unidad
	Suficiente (percentil 90)	Buena (percentil 95)	
Enterococos intestinales	185	200	UFC o NMP/100 ml.
Escherichia coli.	500	500	UFC o NMP/100 ml.

Tabla 2. Parámetros de calidad de las aguas.

6. SALIDA DEL CORMIX PARA EL DIFUSOR EXISTENTE

6.1. Dilución relativa en campo cercano

```

Report nueva EDAR max vertido dil100
CORMIX SESSION REPORT:
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
CORMIX MIXING ZONE EXPERT SYSTEM
CORMIX Version 9.0G
HYDRO1:Version-9.0.0.0 September,2014
SITE NAME/LABEL: Portinatx
DESIGN CASE: EDAR Portinatx
FILE NAME: X:\2015\15083 EMISARIO PORTINATX\03
CALCULOS\Dilucion\EDAR nueva-rel dil100.prd
Using subsystem CORMIX1: Single Port Discharges
Start of session: 12/01/2015--11:27:14
*****
SUMMARY OF INPUT DATA:
-----
AMBIENT PARAMETERS:
Cross-section = unbounded
Average depth HA = 32.20 m
Depth at discharge HD = 31.90 m
Ambient velocity UA = 0.1 m/s
Darcy-Weisbach friction factor F = 0.2469
Calculated from Manning's n = 0.1
Wind velocity UW = 0 m/s
Stratification Type STRCND = U
Surface density RHOAS = 1029 kg/m^3
Bottom density RHOAB = 1029 kg/m^3
-----
DISCHARGE PARAMETERS: Single Port Discharge
Nearest bank = left
Distance to bank DISTB = 900 m
Port diameter DO = 0.1414 m
Port cross-sectional area AO = 0.0157 m^2
Discharge velocity UO = 6.05 m/s
Discharge flowrate QO = 0.095 m^3/s
Discharge port height HO = 0.3 m
Vertical discharge angle THETA = 90 deg
Horizontal discharge angle SIGMA = 0 deg
Discharge temperature (freshwater) = 18 degC
Corresponding density RHOO = 998.5967 kg/m^3
Density difference DRHO = 30.4033 kg/m^3
Buoyant acceleration GPO = 0.2898 m/s^2
Discharge concentration CO = 100 %
Surface heat exchange coeff. KS = 0 m/s
Coefficient of decay KD = 0 /s
-----
DISCHARGE/ENVIRONMENT LENGTH SCALES:
LQ = 0.13 m Lm = 7.58 m Lb = 27.53 m
LM = 3.98 m Lm' = 99999 m Lb' = 99999 m
-----
NON-DIMENSIONAL PARAMETERS:
Port densimetric Froude number FRO = 29.90
Velocity ratio R = 60.51
-----
MIXING ZONE / TOXIC DILUTION ZONE / AREA OF INTEREST PARAMETERS:
Toxic discharge = no
Water quality standard specified = yes
Water quality standard CSTD = 1 %
Regulatory mixing zone = yes
Regulatory mixing zone specification = distance
Regulatory mixing zone value = 900 m (m^2 if area)
Region of interest = 1700 m
*****
HYDRODYNAMIC CLASSIFICATION:
-----*
| FLOW CLASS = V3 |
-----*
This flow configuration applies to a layer corresponding to the full water
depth at the discharge site.
Applicable layer depth = water depth = 31.90 m
Página 1

```


Report nueva EDAR max vertido dil100

 MIXING ZONE EVALUATION (hydrodynamic and regulatory summary):

 X-Y-Z Coordinate system:

Origin is located at the BOTTOM below the port/diffuser center:
 900 m from the left bank/shore.
 Number of display steps NSTEP = 500 per module.

 NEAR-FIELD REGION (NFR) CONDITIONS :

Note: The NFR is the zone of strong initial mixing. It has no regulatory implication. However, this information may be useful for the discharge designer because the mixing in the NFR is usually sensitive to the discharge design conditions.

Pollutant concentration at NFR edge c = 0.4248 %

Dilution at edge of NFR s = 235.4

NFR Location: x = 27.00 m

(centerline coordinates) y = 0 m

z = 31.90 m

NFR plume dimensions: half-width (bh) = 28.34 m

thickness (bv) = 3.95 m

Cumulative travel time: 197.3242 sec.

 Buoyancy assessment:

The effluent density is less than the surrounding ambient water density at the discharge level.

Therefore, the effluent is POSITIVELY BUOYANT and will tend to rise towards the surface.

 UPSTREAM INTRUSION SUMMARY:

Plume exhibits upstream intrusion due to low ambient velocity or strong discharge buoyancy.

Intrusion length = 19.99 m

Intrusion stagnation point = -7.17 m

Intrusion thickness = 3.95 m

Intrusion half width at impingement = 28.34 m

Intrusion half thickness at impingement = 3.95 m

 PLUME BANK CONTACT SUMMARY:

Plume in unbounded section does not contact bank in this simulation.

***** TOXIC DILUTION ZONE SUMMARY *****

No TDZ was specified for this simulation.

***** REGULATORY MIXING ZONE SUMMARY *****

The plume conditions at the boundary of the specified RMZ are as follows:

Pollutant concentration c = 0.021051 %

Corresponding dilution s = 4750.4

Plume location: x = 900 m

(centerline coordinates) y = 0 m

z = 31.90 m

Plume dimensions: half-width (bh) = 232.75 m

thickness (bv) = 9.69 m

Cumulative travel time: 8927.3447 sec.

Note:

Plume concentration c and dilution s values are reported based on prediction file values - assuming linear interpolation between predicted points just before and just after the RMZ boundary has been detected.

Please ensure a small step size is used in the prediction file to account for this linear interpolation. Step size can be controlled by increasing (reduces the prediction step size) or decreasing (increases the prediction step size) the - Output Steps per Module - in CORMIX input.

At this position, the plume is NOT IN CONTACT with any bank.

Furthermore, the specified water quality standard has indeed been met within the RMZ. In particular:

The ambient water quality standard was encountered at the following plume position:

```
Report nueva EDAR max vertido dil100
water quality standard      = 1 %
Corresponding dilution    s = 100.0
Plume location:            x = 9.58 m
    (centerline coordinates) y = 0 m
                                z = 23.63 m
Plume dimension:          half-width (bh) = 3.29 m
***** FINAL DESIGN ADVICE AND COMMENTS *****
EMINDER: The user must take note that HYDRODYNAMIC MODELING by any known
technique is NOT AN EXACT SCIENCE.
xtensive comparison with field and laboratory data has shown that the
CORMIX predictions on dilutions and concentrations (with associated
plume geometries) are reliable for the majority of cases and are accurate
to within about +/-50% (standard deviation).
s a further safeguard, CORMIX will not give predictions whenever it judges
the design configuration as highly complex and uncertain for prediction.
```


6.2. Dilución absoluta en campo cercano

```

Report nueva EDAR coli
CORMIX SESSION REPORT:
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
CORMIX MIXING ZONE EXPERT SYSTEM
CORMIX Version 9.0G
HYDRO1:Version-9.0.0.0 September,2014
SITE NAME/LABEL: Portinatx
DESIGN CASE: EDAR Portinatx
FILE NAME: X:\2015\15083 EMISARIO PORTINATX\03
CALCULOS\Dilucion\EDAR nueva-coli.prd
Using subsystem CORMIX1: Single Port Discharges
Start of session: 12/01/2015--10:39:36
*****
SUMMARY OF INPUT DATA:
-----AMB
IENT PARAMETERS:
Cross-section = unbounded
Average depth HA = 32.20 m
Depth at discharge HD = 31.90 m
Ambient velocity UA = 0.1 m/s
Darcy-Weisbach friction factor F = 0.2469
Calculated from Manning's n = 0.1
Wind velocity UW = 0 m/s
Stratification Type STRCND = U
Surface density RHOAS = 1029 kg/m^3
Bottom density RHOAB = 1029 kg/m^3
-----
DISCHARGE PARAMETERS: Single Port Discharge
Nearest bank = left
Distance to bank DISTB = 900 m
Port diameter DO = 0.1414 m
Port cross-sectional area AO = 0.0157 m^2
Discharge velocity UO = 6.05 m/s
Discharge flowrate QO = 0.095 m^3/s
Discharge port height HO = 0.3 m
Vertical discharge angle THETA = 90 deg
Horizontal discharge angle SIGMA = 0 deg
Discharge temperature (freshwater) = 18 degC
Corresponding density RHOO = 998.5967 kg/m^3
Density difference DRHO = 30.4033 kg/m^3
Buoyant acceleration GPO = 0.2898 m/s^2
Discharge concentration CO = 1000000 bacteria-counts
Surface heat exchange coeff. KS = 0 m/s
Coefficient of decay KD = 0.000306 /s
-----
DISCHARGE/ENVIRONMENT LENGTH SCALES:
LQ = 0.13 m Lm = 7.58 m Lb = 27.53 m
LM = 3.98 m Lm' = 99999 m Lb' = 99999 m
-----
NON-DIMENSIONAL PARAMETERS:
Port densimetric Froude number FRO = 29.90
Velocity ratio R = 60.51
-----
MIXING ZONE / TOXIC DILUTION ZONE / AREA OF INTEREST PARAMETERS:
Toxic discharge = no
Water quality standard specified = yes
Water quality standard CSTD = 500 bacteria-counts
Regulatory mixing zone = yes
Regulatory mixing zone specification = distance
Regulatory mixing zone value = 900 m (m^2 if area)
Region of interest = 1700 m
*****
HYDRODYNAMIC CLASSIFICATION:
*-----*
| FLOW CLASS = V3 |
*-----*
This flow configuration applies to a layer corresponding to the full water
depth at the discharge site.
Applicable layer depth = water depth = 31.90 m
Página 1

```

Report nueva EDAR coli

 MIXING ZONE EVALUATION (hydrodynamic and regulatory summary):

 X-Y-Z Coordinate system:

Origin is located at the BOTTOM below the port/diffuser center:

900 m from the left bank/shore.

Number of display steps NSTEP = 500 per module.

 NEAR-FIELD REGION (NFR) CONDITIONS :

Note: The NFR is the zone of strong initial mixing. It has no regulatory implication. However, this information may be useful for the discharge designer because the mixing in the NFR is usually sensitive to the discharge design conditions.

Pollutant concentration at NFR edge c = 3999.488500 bacteria-counts

Dilution at edge of NFR s = 235.4

NFR Location: x = 27.00 m

(centerline coordinates) y = 0 m

z = 31.90 m

NFR plume dimensions: half-width (bh) = 28.34 m

thickness (bv) = 3.95 m

Cumulative travel time: 197.3242 sec.

 Buoyancy assessment:

The effluent density is less than the surrounding ambient water density at the discharge level.

Therefore, the effluent is POSITIVELY BUOYANT and will tend to rise towards the surface.

 UPSTREAM INTRUSION SUMMARY:

Plume exhibits upstream intrusion due to low ambient velocity or strong discharge buoyancy.

Intrusion length = 19.99 m

Intrusion stagnation point = -7.17 m

Intrusion thickness = 3.95 m

Intrusion half width at impingement = 28.34 m

Intrusion half thickness at impingement = 3.95 m

 PLUME BANK CONTACT SUMMARY:

Plume in unbounded section does not contact bank in this simulation.

***** TOXIC DILUTION ZONE SUMMARY *****

No TDZ was specified for this simulation.

***** REGULATORY MIXING ZONE SUMMARY *****

The plume conditions at the boundary of the specified RMZ are as follows:

Pollutant concentration c = 13.759439 bacteria-counts

Corresponding dilution s = 4750.4

Plume location: x = 900 m

(centerline coordinates) y = 0 m

z = 31.90 m

Plume dimensions: half-width (bh) = 232.75 m

thickness (bv) = 9.69 m

Cumulative travel time: 8927.3447 sec.

Note:

Plume concentration c and dilution s values are reported based on prediction file values - assuming linear interpolation between predicted points just before and just after the RMZ boundary has been detected.

Please ensure a small step size is used in the prediction file to account for this linear interpolation. Step size can be controlled by increasing (reduces the prediction step size) or decreasing (increases the prediction step size) the - Output Steps per Module - in CORMIX input.

At this position, the plume is NOT IN CONTACT with any bank.

Furthermore, the specified water quality standard has indeed been met within the RMZ. In particular:

The ambient water quality standard was encountered at the following plume position:

```
Report nueva EDAR coli
Water quality standard      = 500 bacteria-counts
Corresponding dilution     s = 759.2
Plume location:            x = 324.27 m
  (centerline coordinates) y = 0 m
                          z = 31.90 m
Plume dimensions:          half-width (bh) = 119.67 m
                          thickness (bv) = 3.01 m
***** FINAL DESIGN ADVICE AND COMMENTS *****
REMINDER: The user must take note that HYDRODYNAMIC MODELING by any known
technique is NOT AN EXACT SCIENCE.
Extensive comparison with field and laboratory data has shown that the
CORMIX predictions on dilutions and concentrations (with associated
plume geometries) are reliable for the majority of cases and are accurate
to within about +/-50% (standard deviation).
As a further safeguard, CORMIX will not give predictions whenever it judges
the design configuration as highly complex and uncertain for prediction.
```


7. RESUMEN DE RESULTADOS Y CONCLUSIONES

El resumen de los resultados obtenidos por CORMIX y mostrados en el apartado anterior, para la dilución relativa, son los siguientes:

	Límite del campo cercano			Punto donde se obtiene una dilución 1:100
	Concentración de contaminantes (%)	Dilución	Distancia (m)	Distancia (m)
Con corriente de 0,1 m/s	0.0479	2086.2	57.65	9.58

Tabla 3. Resumen de los resultados del CORMIX para dilución relativa.

El resumen de los resultados obtenidos por CORMIX y mostrados en el apartado anterior, para la dilución absoluta, son los siguientes:

	Límite del campo cercano			Punto donde se obtiene una dilución de 500 NMP/100ml
	Concentración de contaminantes (NMP/100ml)	Dilución	Distancia (m)	Distancia (m)
Con corriente de 0,1 m/s	3999.49	235.4	27.00	324.27

Tabla 4. Resumen de los resultados del CORMIX para dilución absoluta.

De los resultados arrojados por CORMIX, se tiene que para el emisario submarino de Portinatx utilizado como emisario para la nueva planta de aguas residuales de Sant Joan de Labritja, que el límite del campo cercano se encuentra a unos 58 m del punto de vertido con una dilución de 1:2086. Recordemos que en esta zona es donde se producen los fenómenos principales de mezcla debidos a la expulsión del vertido, **y se cumple la exigencia de tener una dilución mayor a 1:100 en el límite del campo cercano. Además se cumple que en la zona de baño de la costa, la calidad de las aguas es buena conforme a la normativa existente,**

ya que los parámetros de calidad de agua se mejoran a una distancia de 325 metros desde el punto de vertido, mientras que la costa se encuentra a 900 metros.

Todo esto nos lleva a concluir que se trata de un emisario submarino con un funcionamiento adecuado para la nueva EDAR de Sant Joan de Labritja.

Anejo 1 – Informe Cormix dilución relativa en campo cercano

Prediction nueva EDAR max vertido dil 100

X	Y	Z	S	C	B	Uc	TT
0.00	0.00	0.30	1.0	0.100E+03	0.07	6.051	.00000E+00

END OF MOD101: DISCHARGE MODULE

BEGIN CORJET (MOD110): JET/PLUME NEAR-FIELD MIXING REGION

Jet/plume transition motion in weak crossflow.

Zone of flow establishment: THETA E= 89.61 SIGMA E= 0.00
 LE = 0.67 XE = 0.00 YE = 0.00 ZE = 0.97

Profile definitions:

B = Gaussian 1/e (37%) half-width, normal to trajectory
 S = hydrodynamic centerline dilution
 C = centerline concentration (includes reaction effects, if any)
 Uc = Local centerline excess velocity (above ambient)
 TT = Cumulative travel time

X	Y	Z	S	C	B	Uc	TT
0.00	0.00	0.30	1.0	0.100E+03	0.07	6.051	.00000E+00
0.00	0.00	0.97	1.0	0.100E+03	0.08	6.051	.17483E-01
0.00	0.00	1.09	1.2	0.860E+02	0.10	6.051	.37799E-01
0.01	0.00	1.22	1.3	0.753E+02	0.11	5.413	.60939E-01
0.01	0.00	1.35	1.5	0.670E+02	0.13	4.825	.86895E-01
0.01	0.00	1.47	1.7	0.602E+02	0.14	4.353	.11566E+00
0.01	0.00	1.60	1.8	0.547E+02	0.15	3.967	.14721E+00
0.02	0.00	1.72	2.0	0.501E+02	0.17	3.645	.18155E+00
0.02	0.00	1.85	2.2	0.461E+02	0.18	3.372	.21867E+00
0.03	0.00	1.97	2.3	0.428E+02	0.20	3.137	.25854E+00
0.04	0.00	2.10	2.5	0.398E+02	0.21	2.934	.30115E+00
0.04	0.00	2.22	2.7	0.372E+02	0.22	2.757	.34650E+00
0.05	0.00	2.35	2.9	0.349E+02	0.24	2.600	.39456E+00
0.06	0.00	2.47	3.0	0.329E+02	0.25	2.461	.44533E+00
0.07	0.00	2.60	3.2	0.311E+02	0.26	2.336	.49878E+00
0.08	0.00	2.72	3.4	0.294E+02	0.28	2.224	.55490E+00
0.09	0.00	2.85	3.6	0.279E+02	0.29	2.123	.61367E+00
0.10	0.00	2.97	3.8	0.265E+02	0.31	2.031	.67508E+00
0.11	0.00	3.10	4.0	0.253E+02	0.32	1.947	.73911E+00
0.12	0.00	3.22	4.1	0.241E+02	0.33	1.870	.80574E+00
0.13	0.00	3.35	4.3	0.230E+02	0.35	1.799	.87495E+00
0.15	0.00	3.47	4.5	0.220E+02	0.36	1.734	.94673E+00
0.16	0.00	3.59	4.7	0.211E+02	0.38	1.674	.10211E+01
0.18	0.00	3.72	4.9	0.203E+02	0.39	1.618	.10979E+01
0.19	0.00	3.84	5.1	0.195E+02	0.41	1.566	.11773E+01
0.21	0.00	3.97	5.3	0.187E+02	0.42	1.517	.12591E+01
0.22	0.00	4.09	5.6	0.180E+02	0.43	1.472	.13435E+01
0.24	0.00	4.22	5.8	0.173E+02	0.45	1.429	.14303E+01
0.26	0.00	4.34	6.0	0.167E+02	0.46	1.389	.15195E+01
0.28	0.00	4.46	6.2	0.161E+02	0.48	1.352	.16111E+01
0.30	0.00	4.59	6.4	0.156E+02	0.49	1.316	.17052E+01
0.32	0.00	4.71	6.6	0.151E+02	0.51	1.283	.18016E+01
0.34	0.00	4.83	6.9	0.146E+02	0.52	1.251	.19004E+01
0.36	0.00	4.96	7.1	0.141E+02	0.54	1.221	.20015E+01
0.38	0.00	5.08	7.3	0.136E+02	0.55	1.193	.21050E+01
0.40	0.00	5.20	7.6	0.132E+02	0.57	1.166	.22108E+01
0.43	0.00	5.33	7.8	0.128E+02	0.58	1.140	.23189E+01
0.45	0.00	5.45	8.1	0.124E+02	0.60	1.116	.24292E+01
0.47	0.00	5.57	8.3	0.120E+02	0.61	1.093	.25418E+01
0.50	0.00	5.70	8.6	0.117E+02	0.63	1.070	.26567E+01
0.53	0.00	5.82	8.8	0.113E+02	0.64	1.049	.27737E+01
0.55	0.00	5.94	9.1	0.110E+02	0.66	1.029	.28930E+01
0.58	0.00	6.06	9.3	0.107E+02	0.67	1.009	.30145E+01
0.61	0.00	6.19	9.6	0.104E+02	0.69	0.991	.31382E+01
0.63	0.00	6.31	9.9	0.101E+02	0.70	0.973	.32640E+01

Predicti on nueva EDAR max verti do di l 100							
0.66	0.00	6.43	10.2	0.984E+01	0.72	0.956	.33919E+01
0.69	0.00	6.55	10.4	0.958E+01	0.73	0.939	.35220E+01
0.72	0.00	6.67	10.7	0.932E+01	0.75	0.923	.36542E+01
0.75	0.00	6.80	11.0	0.908E+01	0.76	0.908	.37885E+01
0.78	0.00	6.92	11.3	0.884E+01	0.78	0.893	.39249E+01
0.81	0.00	7.04	11.6	0.861E+01	0.79	0.879	.40634E+01
0.85	0.00	7.16	11.9	0.840E+01	0.81	0.865	.42039E+01
0.88	0.00	7.28	12.2	0.818E+01	0.83	0.852	.43464E+01
0.91	0.00	7.40	12.5	0.798E+01	0.84	0.840	.44910E+01
0.95	0.00	7.52	12.8	0.779E+01	0.86	0.827	.46376E+01
0.98	0.00	7.64	13.2	0.760E+01	0.87	0.815	.47862E+01
1.01	0.00	7.76	13.5	0.741E+01	0.89	0.804	.49368E+01
1.05	0.00	7.88	13.8	0.724E+01	0.91	0.792	.50894E+01
1.09	0.00	8.00	14.2	0.707E+01	0.92	0.782	.52439E+01
1.12	0.00	8.12	14.5	0.690E+01	0.94	0.771	.54004E+01
1.16	0.00	8.24	14.8	0.674E+01	0.95	0.761	.55588E+01
1.20	0.00	8.36	15.2	0.659E+01	0.97	0.751	.57192E+01
1.23	0.00	8.48	15.5	0.644E+01	0.99	0.741	.58814E+01
1.27	0.00	8.60	15.9	0.629E+01	1.00	0.732	.60456E+01
1.31	0.00	8.72	16.3	0.615E+01	1.02	0.723	.62117E+01
1.35	0.00	8.84	16.6	0.602E+01	1.04	0.714	.63796E+01
1.39	0.00	8.96	17.0	0.588E+01	1.05	0.705	.65494E+01
1.43	0.00	9.08	17.4	0.576E+01	1.07	0.697	.67211E+01
1.47	0.00	9.20	17.8	0.563E+01	1.09	0.689	.68946E+01
1.51	0.00	9.31	18.1	0.551E+01	1.10	0.681	.70700E+01
1.56	0.00	9.43	18.5	0.539E+01	1.12	0.673	.72472E+01
1.60	0.00	9.55	18.9	0.528E+01	1.14	0.666	.74262E+01
1.64	0.00	9.67	19.3	0.517E+01	1.15	0.658	.76071E+01
1.68	0.00	9.79	19.7	0.506E+01	1.17	0.651	.77897E+01
1.73	0.00	9.90	20.2	0.496E+01	1.19	0.644	.79741E+01
1.77	0.00	10.02	20.6	0.486E+01	1.21	0.637	.81603E+01
1.82	0.00	10.14	21.0	0.476E+01	1.22	0.630	.83483E+01
1.86	0.00	10.25	21.4	0.467E+01	1.24	0.624	.85380E+01
1.91	0.00	10.37	21.9	0.457E+01	1.26	0.618	.87295E+01
1.95	0.00	10.49	22.3	0.448E+01	1.28	0.611	.89228E+01
2.00	0.00	10.60	22.7	0.440E+01	1.29	0.605	.91177E+01
2.04	0.00	10.72	23.2	0.431E+01	1.31	0.599	.93145E+01
2.09	0.00	10.84	23.6	0.423E+01	1.33	0.593	.95129E+01
2.14	0.00	10.95	24.1	0.415E+01	1.35	0.588	.97130E+01
2.19	0.00	11.07	24.6	0.407E+01	1.36	0.582	.99148E+01
2.24	0.00	11.18	25.0	0.400E+01	1.38	0.577	.10118E+02
2.28	0.00	11.30	25.5	0.392E+01	1.40	0.572	.10323E+02
2.33	0.00	11.41	26.0	0.385E+01	1.42	0.567	.10530E+02
2.38	0.00	11.53	26.4	0.378E+01	1.43	0.562	.10738E+02
2.43	0.00	11.64	26.9	0.372E+01	1.45	0.557	.10948E+02
2.48	0.00	11.76	27.4	0.365E+01	1.47	0.553	.11159E+02
2.53	0.00	11.87	27.9	0.359E+01	1.48	0.548	.11372E+02
2.59	0.00	11.99	28.3	0.353E+01	1.50	0.544	.11586E+02
2.64	0.00	12.10	28.8	0.347E+01	1.52	0.540	.11801E+02
2.69	0.00	12.22	29.3	0.341E+01	1.54	0.536	.12018E+02
2.74	0.00	12.33	29.8	0.336E+01	1.55	0.532	.12237E+02
2.79	0.00	12.44	30.3	0.330E+01	1.57	0.528	.12457E+02
2.85	0.00	12.56	30.8	0.325E+01	1.59	0.524	.12678E+02
2.90	0.00	12.67	31.3	0.320E+01	1.60	0.520	.12901E+02
2.95	0.00	12.78	31.8	0.315E+01	1.62	0.517	.13124E+02
3.01	0.00	12.90	32.3	0.310E+01	1.64	0.513	.13350E+02
3.06	0.00	13.01	32.8	0.305E+01	1.65	0.510	.13576E+02
3.11	0.00	13.12	33.3	0.300E+01	1.67	0.506	.13804E+02
3.17	0.00	13.24	33.8	0.296E+01	1.69	0.503	.14033E+02
3.22	0.00	13.35	34.4	0.291E+01	1.70	0.500	.14264E+02
3.28	0.00	13.46	34.9	0.287E+01	1.72	0.496	.14496E+02
3.33	0.00	13.57	35.4	0.283E+01	1.74	0.493	.14728E+02
3.39	0.00	13.69	35.9	0.278E+01	1.75	0.490	.14963E+02
3.45	0.00	13.80	36.5	0.274E+01	1.77	0.487	.15198E+02
3.50	0.00	13.91	37.0	0.270E+01	1.79	0.484	.15435E+02
3.56	0.00	14.02	37.5	0.266E+01	1.80	0.481	.15673E+02
3.62	0.00	14.13	38.1	0.263E+01	1.82	0.478	.15912E+02
3.67	0.00	14.24	38.6	0.259E+01	1.83	0.476	.16152E+02

Predicti on nueva EDAR max verti do di l 100							
3. 73	0. 00	14. 36	39. 2	0. 255E+01	1. 85	0. 473	. 16393E+02
3. 79	0. 00	14. 47	39. 7	0. 252E+01	1. 87	0. 470	. 16636E+02
3. 85	0. 00	14. 58	40. 3	0. 248E+01	1. 88	0. 468	. 16879E+02
3. 91	0. 00	14. 69	40. 8	0. 245E+01	1. 90	0. 465	. 17124E+02
3. 96	0. 00	14. 80	41. 4	0. 242E+01	1. 92	0. 462	. 17370E+02
4. 02	0. 00	14. 91	41. 9	0. 238E+01	1. 93	0. 460	. 17617E+02
4. 08	0. 00	15. 02	42. 5	0. 235E+01	1. 95	0. 457	. 17865E+02
4. 14	0. 00	15. 13	43. 1	0. 232E+01	1. 97	0. 455	. 18115E+02
4. 20	0. 00	15. 24	43. 6	0. 229E+01	1. 98	0. 453	. 18365E+02
4. 26	0. 00	15. 35	44. 2	0. 226E+01	2. 00	0. 450	. 18616E+02
4. 32	0. 00	15. 46	44. 8	0. 223E+01	2. 01	0. 448	. 18869E+02
4. 38	0. 00	15. 57	45. 4	0. 220E+01	2. 03	0. 446	. 19123E+02
4. 44	0. 00	15. 68	46. 0	0. 218E+01	2. 05	0. 443	. 19377E+02
4. 50	0. 00	15. 79	46. 6	0. 215E+01	2. 06	0. 441	. 19633E+02
4. 56	0. 00	15. 90	47. 2	0. 212E+01	2. 08	0. 439	. 19890E+02
4. 62	0. 00	16. 01	47. 8	0. 209E+01	2. 10	0. 437	. 20148E+02
4. 69	0. 00	16. 12	48. 4	0. 207E+01	2. 11	0. 435	. 20407E+02
4. 75	0. 00	16. 23	49. 0	0. 204E+01	2. 13	0. 433	. 20667E+02
4. 81	0. 00	16. 34	49. 6	0. 202E+01	2. 15	0. 430	. 20928E+02
4. 87	0. 00	16. 45	50. 2	0. 199E+01	2. 16	0. 428	. 21190E+02
4. 93	0. 00	16. 55	50. 8	0. 197E+01	2. 18	0. 426	. 21453E+02
5. 00	0. 00	16. 66	51. 4	0. 195E+01	2. 19	0. 424	. 21717E+02
5. 06	0. 00	16. 77	52. 0	0. 192E+01	2. 21	0. 422	. 21982E+02
5. 12	0. 00	16. 88	52. 6	0. 190E+01	2. 23	0. 420	. 22248E+02
5. 19	0. 00	16. 99	53. 3	0. 188E+01	2. 24	0. 419	. 22515E+02
5. 25	0. 00	17. 10	53. 9	0. 186E+01	2. 26	0. 417	. 22783E+02
5. 31	0. 00	17. 20	54. 5	0. 183E+01	2. 28	0. 415	. 23052E+02
5. 38	0. 00	17. 31	55. 2	0. 181E+01	2. 29	0. 413	. 23322E+02
5. 44	0. 00	17. 42	55. 8	0. 179E+01	2. 31	0. 411	. 23592E+02
5. 51	0. 00	17. 53	56. 4	0. 177E+01	2. 32	0. 409	. 23864E+02
5. 57	0. 00	17. 63	57. 1	0. 175E+01	2. 34	0. 408	. 24137E+02
5. 63	0. 00	17. 74	57. 7	0. 173E+01	2. 36	0. 406	. 24411E+02
5. 70	0. 00	17. 85	58. 4	0. 171E+01	2. 37	0. 404	. 24686E+02
5. 76	0. 00	17. 96	59. 1	0. 169E+01	2. 39	0. 402	. 24961E+02
5. 83	0. 00	18. 06	59. 7	0. 167E+01	2. 41	0. 401	. 25238E+02
5. 90	0. 00	18. 17	60. 4	0. 166E+01	2. 42	0. 399	. 25516E+02
5. 96	0. 00	18. 28	61. 0	0. 164E+01	2. 44	0. 397	. 25794E+02
6. 03	0. 00	18. 38	61. 7	0. 162E+01	2. 46	0. 396	. 26074E+02
6. 09	0. 00	18. 49	62. 4	0. 160E+01	2. 47	0. 394	. 26354E+02
6. 16	0. 00	18. 60	63. 1	0. 159E+01	2. 49	0. 392	. 26635E+02
6. 23	0. 00	18. 70	63. 7	0. 157E+01	2. 50	0. 391	. 26917E+02
6. 29	0. 00	18. 81	64. 4	0. 155E+01	2. 52	0. 389	. 27201E+02
6. 36	0. 00	18. 91	65. 1	0. 154E+01	2. 54	0. 388	. 27485E+02
6. 43	0. 00	19. 02	65. 8	0. 152E+01	2. 55	0. 386	. 27769E+02
6. 49	0. 00	19. 13	66. 5	0. 150E+01	2. 57	0. 385	. 28055E+02
6. 56	0. 00	19. 23	67. 2	0. 149E+01	2. 59	0. 383	. 28342E+02
6. 63	0. 00	19. 34	67. 9	0. 147E+01	2. 60	0. 382	. 28630E+02
6. 70	0. 00	19. 44	68. 6	0. 146E+01	2. 62	0. 380	. 28918E+02
6. 76	0. 00	19. 55	69. 3	0. 144E+01	2. 64	0. 379	. 29207E+02
6. 83	0. 00	19. 65	70. 0	0. 143E+01	2. 65	0. 377	. 29498E+02
6. 90	0. 00	19. 76	70. 7	0. 141E+01	2. 67	0. 376	. 29789E+02
6. 97	0. 00	19. 86	71. 4	0. 140E+01	2. 68	0. 374	. 30081E+02
7. 04	0. 00	19. 97	72. 2	0. 139E+01	2. 70	0. 373	. 30374E+02
7. 10	0. 00	20. 07	72. 9	0. 137E+01	2. 72	0. 372	. 30668E+02
7. 17	0. 00	20. 18	73. 6	0. 136E+01	2. 73	0. 370	. 30962E+02
7. 24	0. 00	20. 28	74. 3	0. 135E+01	2. 75	0. 369	. 31258E+02
7. 31	0. 00	20. 39	75. 1	0. 133E+01	2. 77	0. 367	. 31554E+02
7. 38	0. 00	20. 49	75. 8	0. 132E+01	2. 78	0. 366	. 31851E+02
7. 45	0. 00	20. 60	76. 6	0. 131E+01	2. 80	0. 365	. 32149E+02
7. 52	0. 00	20. 70	77. 3	0. 129E+01	2. 82	0. 363	. 32448E+02
7. 59	0. 00	20. 80	78. 1	0. 128E+01	2. 83	0. 362	. 32748E+02
7. 66	0. 00	20. 91	78. 8	0. 127E+01	2. 85	0. 361	. 33048E+02
7. 73	0. 00	21. 01	79. 6	0. 126E+01	2. 87	0. 359	. 33350E+02
7. 80	0. 00	21. 11	80. 3	0. 125E+01	2. 88	0. 358	. 33652E+02
7. 87	0. 00	21. 22	81. 1	0. 123E+01	2. 90	0. 357	. 33955E+02
7. 94	0. 00	21. 32	81. 8	0. 122E+01	2. 91	0. 356	. 34259E+02
8. 01	0. 00	21. 43	82. 6	0. 121E+01	2. 93	0. 354	. 34564E+02
8. 08	0. 00	21. 53	83. 4	0. 120E+01	2. 95	0. 353	. 34870E+02

Prediction nueva EDAR max vertido di l 100

8.15	0.00	21.63	84.2	0.119E+01	2.96	0.352	.35176E+02
8.23	0.00	21.73	84.9	0.118E+01	2.98	0.351	.35483E+02
8.30	0.00	21.84	85.7	0.117E+01	3.00	0.350	.35791E+02
8.37	0.00	21.94	86.5	0.116E+01	3.01	0.348	.36100E+02
8.44	0.00	22.04	87.3	0.115E+01	3.03	0.347	.36410E+02
8.51	0.00	22.15	88.1	0.114E+01	3.05	0.346	.36720E+02
8.58	0.00	22.25	88.9	0.113E+01	3.06	0.345	.37032E+02
8.66	0.00	22.35	89.7	0.112E+01	3.08	0.344	.37344E+02
8.73	0.00	22.45	90.5	0.111E+01	3.10	0.343	.37657E+02
8.80	0.00	22.56	91.3	0.110E+01	3.11	0.341	.37970E+02
8.87	0.00	22.66	92.1	0.109E+01	3.13	0.340	.38285E+02
8.95	0.00	22.76	92.9	0.108E+01	3.15	0.339	.38600E+02
9.02	0.00	22.86	93.7	0.107E+01	3.16	0.338	.38916E+02
9.09	0.00	22.96	94.5	0.106E+01	3.18	0.337	.39233E+02
9.17	0.00	23.07	95.3	0.105E+01	3.19	0.336	.39551E+02
9.24	0.00	23.17	96.2	0.104E+01	3.21	0.335	.39869E+02
9.31	0.00	23.27	97.0	0.103E+01	3.23	0.334	.40189E+02
9.39	0.00	23.37	97.8	0.102E+01	3.24	0.333	.40509E+02
9.46	0.00	23.47	98.7	0.101E+01	3.26	0.332	.40830E+02
9.53	0.00	23.57	99.5	0.100E+01	3.28	0.331	.41151E+02

WATER QUALITY STANDARD OR CCC HAS BEEN FOUND

The pollutant concentration in the plume falls below water quality standard or CCC value of 0.100E+01 in the current prediction interval.

This is the spatial extent of concentrations exceeding the water quality standard or CCC value.

9.61	0.00	23.67	100.3	0.997E+00	3.29	0.329	.41474E+02
9.68	0.00	23.77	101.2	0.988E+00	3.31	0.328	.41797E+02
9.76	0.00	23.88	102.0	0.980E+00	3.33	0.327	.42121E+02
9.83	0.00	23.98	102.9	0.972E+00	3.34	0.326	.42445E+02
9.90	0.00	24.08	103.7	0.964E+00	3.36	0.325	.42771E+02
9.98	0.00	24.18	104.6	0.956E+00	3.38	0.324	.43097E+02
10.05	0.00	24.28	105.5	0.948E+00	3.39	0.323	.43424E+02
10.13	0.00	24.38	106.3	0.940E+00	3.41	0.322	.43752E+02
10.20	0.00	24.48	107.2	0.933E+00	3.43	0.321	.44080E+02
10.28	0.00	24.58	108.1	0.925E+00	3.44	0.320	.44410E+02
10.35	0.00	24.68	108.9	0.918E+00	3.46	0.319	.44740E+02
10.43	0.00	24.78	109.8	0.911E+00	3.48	0.318	.45070E+02
10.51	0.00	24.88	110.7	0.903E+00	3.49	0.318	.45402E+02
10.58	0.00	24.98	111.6	0.896E+00	3.51	0.317	.45734E+02
10.66	0.00	25.08	112.5	0.889E+00	3.53	0.316	.46067E+02
10.73	0.00	25.18	113.4	0.882E+00	3.54	0.315	.46401E+02
10.81	0.00	25.28	114.3	0.875E+00	3.56	0.314	.46735E+02
10.88	0.00	25.38	115.2	0.868E+00	3.58	0.313	.47071E+02
10.96	0.00	25.48	116.1	0.862E+00	3.59	0.312	.47407E+02
11.04	0.00	25.58	117.0	0.855E+00	3.61	0.311	.47743E+02
11.11	0.00	25.68	117.9	0.848E+00	3.63	0.310	.48081E+02
11.19	0.00	25.78	118.8	0.842E+00	3.64	0.309	.48419E+02
11.27	0.00	25.87	119.7	0.835E+00	3.66	0.308	.48758E+02
11.34	0.00	25.97	120.6	0.829E+00	3.68	0.307	.49098E+02
11.42	0.00	26.07	121.5	0.823E+00	3.69	0.307	.49438E+02
11.50	0.00	26.17	122.5	0.817E+00	3.71	0.306	.49779E+02
11.58	0.00	26.27	123.4	0.810E+00	3.73	0.305	.50121E+02
11.65	0.00	26.37	124.3	0.804E+00	3.74	0.304	.50464E+02
11.73	0.00	26.47	125.3	0.798E+00	3.76	0.303	.50807E+02
11.81	0.00	26.57	126.2	0.792E+00	3.78	0.302	.51151E+02
11.89	0.00	26.66	127.1	0.786E+00	3.79	0.301	.51496E+02
11.96	0.00	26.76	128.1	0.781E+00	3.81	0.300	.51841E+02
12.04	0.00	26.86	129.0	0.775E+00	3.83	0.300	.52187E+02
12.12	0.00	26.96	130.0	0.769E+00	3.84	0.299	.52534E+02
12.20	0.00	27.06	130.9	0.764E+00	3.86	0.298	.52882E+02
12.28	0.00	27.15	131.9	0.758E+00	3.88	0.297	.53230E+02
12.35	0.00	27.25	132.9	0.753E+00	3.89	0.296	.53579E+02
12.43	0.00	27.35	133.8	0.747E+00	3.91	0.296	.53929E+02
12.51	0.00	27.45	134.8	0.742E+00	3.93	0.295	.54279E+02
12.59	0.00	27.54	135.8	0.737E+00	3.94	0.294	.54630E+02
12.67	0.00	27.64	136.7	0.731E+00	3.96	0.293	.54982E+02
12.75	0.00	27.74	137.7	0.726E+00	3.98	0.292	.55335E+02
12.83	0.00	27.84	138.5	0.722E+00	3.99	0.292	.55604E+02

Prediction nueva EDAR max vertido di 100
 Cumulative travel time = 55.6042 sec (0.02 hrs)

END OF CORJET (MOD110): JET/PLUME NEAR-FIELD MIXING REGION

BEGIN MOD132: LAYER BOUNDARY IMPINGEMENT/UPSTREAM SPREADING

Vertical angle of layer/boundary impingement = 50.91 deg
 Horizontal angle of layer/boundary impingement = 0.00 deg

UPSTREAM INTRUSION PROPERTIES:
 Upstream intrusion length = 19.99 m
 X-position of upstream stagnation point = -7.17 m
 Thickness in intrusion region = 3.94 m
 Half-width at downstream end = 28.34 m
 Thickness at downstream end = 3.94 m

Control volume inflow:
 X Y Z S C B TT
 12.83 0.00 27.84 138.5 0.722E+00 3.99 .55604E+02

Profile definitions:
 BV = top-hat thickness, measured vertically
 BH = top-hat half-width, measured horizontally in Y-direction
 ZU = upper plume boundary (Z-coordinate)
 ZL = lower plume boundary (Z-coordinate)
 S = hydrodynamic average (bulk) dilution
 C = average (bulk) concentration (includes reaction effects, if any)
 TT = Cumulative travel time

	X	Y	Z	S	C	BV	BH	ZU	ZL
TT									
-7.17	0.00	31.90	9999.9	0.000E+00	0.00	0.00	0.00	31.90	31.90
.19732E+03									
-6.48	0.00	31.90	597.8	0.167E+00	0.91	4.01	31.90	30.99	
.55604E+02									
-3.13	0.00	31.90	248.1	0.403E+00	2.20	9.74	31.90	29.70	
.55604E+02									
0.21	0.00	31.90	187.1	0.535E+00	2.92	13.17	31.90	28.98	
.55604E+02									
3.56	0.00	31.90	160.3	0.624E+00	3.41	15.88	31.90	28.49	
.55604E+02									
6.91	0.00	31.90	146.5	0.683E+00	3.73	18.19	31.90	28.17	
.55604E+02									
10.26	0.00	31.90	139.9	0.715E+00	3.90	20.24	31.90	28.00	
.55604E+02									
13.61	0.00	31.90	139.6	0.716E+00	3.94	22.10	31.90	27.96	
.63403E+02									
16.95	0.00	31.90	166.4	0.601E+00	3.94	23.82	31.90	27.96	
.96883E+02									
20.30	0.00	31.90	203.6	0.491E+00	3.94	25.41	31.90	27.96	
.13036E+03									
23.65	0.00	31.90	226.0	0.442E+00	3.94	26.92	31.90	27.96	
.16384E+03									
27.00	0.00	31.90	235.4	0.425E+00	3.94	28.34	31.90	27.96	
.19732E+03									
Cumulative travel time = 197.3242 sec (0.05 hrs)									

END OF MOD132: LAYER BOUNDARY IMPINGEMENT/UPSTREAM SPREADING

** End of NEAR-FIELD REGION (NFR) **

BEGIN MOD141: BUOYANT AMBIENT SPREADING

Prediction nueva EDAR max vertido di l 100

Profile definitions:

- BV = top-hat thickness, measured vertically
- BH = top-hat half-width, measured horizontally in Y-direction
- ZU = upper plume boundary (Z-coordinate)
- ZL = lower plume boundary (Z-coordinate)
- S = hydrodynamic average (bulk) dilution
- C = average (bulk) concentration (includes reaction effects, if any)
- TT = Cumulative travel time

Plume Stage 1 (not bank attached):

	X	Y	Z	S	C	BV	BH	ZU	ZL
TT									
27.00	0.00	31.90	235.4	0.425E+00	3.94	28.34	31.90	27.96	
.19732E+03	30.34	0.00	31.90	239.3	0.418E+00	3.79	29.97	31.90	28.11
.23078E+03	33.69	0.00	31.90	243.0	0.412E+00	3.66	31.54	31.90	28.24
.26424E+03	37.04	0.00	31.90	246.5	0.406E+00	3.54	33.08	31.90	28.36
.29770E+03	40.38	0.00	31.90	250.0	0.400E+00	3.43	34.59	31.90	28.47
.33116E+03	43.73	0.00	31.90	253.5	0.395E+00	3.34	36.06	31.90	28.56
.36462E+03	47.07	0.00	31.90	256.8	0.389E+00	3.25	37.50	31.90	28.65
.39808E+03	50.42	0.00	31.90	260.2	0.384E+00	3.18	38.92	31.90	28.72
.43154E+03	53.77	0.00	31.90	263.5	0.380E+00	3.11	40.30	31.90	28.79
.46500E+03	57.11	0.00	31.90	266.8	0.375E+00	3.04	41.67	31.90	28.86
.49846E+03	60.46	0.00	31.90	270.1	0.370E+00	2.98	43.01	31.90	28.92
.53192E+03	63.80	0.00	31.90	273.3	0.366E+00	2.93	44.33	31.90	28.97
.56538E+03	67.15	0.00	31.90	276.6	0.362E+00	2.88	45.64	31.90	29.02
.59884E+03	70.50	0.00	31.90	279.9	0.357E+00	2.83	46.92	31.90	29.07
.63230E+03	73.84	0.00	31.90	283.3	0.353E+00	2.79	48.19	31.90	29.11
.66576E+03	77.19	0.00	31.90	286.6	0.349E+00	2.75	49.43	31.90	29.15
.69922E+03	80.53	0.00	31.90	290.0	0.345E+00	2.72	50.67	31.90	29.18
.73268E+03	83.88	0.00	31.90	293.4	0.341E+00	2.69	51.89	31.90	29.21
.76614E+03	87.23	0.00	31.90	296.9	0.337E+00	2.66	53.09	31.90	29.24
.79960E+03	90.57	0.00	31.90	300.4	0.333E+00	2.63	54.28	31.90	29.27
.83306E+03	93.92	0.00	31.90	303.9	0.329E+00	2.60	55.46	31.90	29.30
.86652E+03	97.26	0.00	31.90	307.5	0.325E+00	2.58	56.62	31.90	29.32
.89998E+03	100.61	0.00	31.90	311.2	0.321E+00	2.56	57.77	31.90	29.34
.93344E+03	103.96	0.00	31.90	314.9	0.318E+00	2.54	58.91	31.90	29.36
.96690E+03	107.30	0.00	31.90	318.7	0.314E+00	2.52	60.04	31.90	29.38
.10004E+04	110.65	0.00	31.90	322.5	0.310E+00	2.50	61.16	31.90	29.40
.10338E+04	113.99	0.00	31.90	326.4	0.306E+00	2.49	62.27	31.90	29.41
.10673E+04	117.34	0.00	31.90	330.4	0.303E+00	2.48	63.37	31.90	29.42
.11007E+04									

		Predicti on nueva EDAR max verti do di l 100						
120.69	0.00	31.90	334.4	0.299E+00	2.46	64.46	31.90	29.44
.11342E+04								
124.03	0.00	31.90	338.5	0.295E+00	2.45	65.54	31.90	29.45
.11677E+04								
127.38	0.00	31.90	342.7	0.292E+00	2.44	66.61	31.90	29.46
.12011E+04								
130.72	0.00	31.90	346.9	0.288E+00	2.44	67.67	31.90	29.46
.12346E+04								
134.07	0.00	31.90	351.3	0.285E+00	2.43	68.72	31.90	29.47
.12680E+04								
137.42	0.00	31.90	355.7	0.281E+00	2.42	69.77	31.90	29.48
.13015E+04								
140.76	0.00	31.90	360.2	0.278E+00	2.42	70.80	31.90	29.48
.13350E+04								
144.11	0.00	31.90	364.7	0.274E+00	2.41	71.83	31.90	29.49
.13684E+04								
147.45	0.00	31.90	369.4	0.271E+00	2.41	72.85	31.90	29.49
.14019E+04								
150.80	0.00	31.90	374.1	0.267E+00	2.41	73.87	31.90	29.49
.14353E+04								
154.15	0.00	31.90	378.9	0.264E+00	2.40	74.88	31.90	29.50
.14688E+04								
157.49	0.00	31.90	383.8	0.261E+00	2.40	75.88	31.90	29.50
.15023E+04								
160.84	0.00	31.90	388.8	0.257E+00	2.40	76.87	31.90	29.50
.15357E+04								
164.18	0.00	31.90	393.9	0.254E+00	2.40	77.86	31.90	29.50
.15692E+04								
167.53	0.00	31.90	399.1	0.251E+00	2.40	78.84	31.90	29.50
.16026E+04								
170.88	0.00	31.90	404.4	0.247E+00	2.41	79.81	31.90	29.49
.16361E+04								
174.22	0.00	31.90	409.7	0.244E+00	2.41	80.78	31.90	29.49
.16696E+04								
177.57	0.00	31.90	415.2	0.241E+00	2.41	81.74	31.90	29.49
.17030E+04								
180.91	0.00	31.90	420.7	0.238E+00	2.42	82.70	31.90	29.48
.17365E+04								
184.26	0.00	31.90	426.4	0.235E+00	2.42	83.65	31.90	29.48
.17699E+04								
187.61	0.00	31.90	432.1	0.231E+00	2.43	84.60	31.90	29.47
.18034E+04								
190.95	0.00	31.90	437.9	0.228E+00	2.43	85.54	31.90	29.47
.18369E+04								
194.30	0.00	31.90	443.9	0.225E+00	2.44	86.48	31.90	29.46
.18703E+04								
197.64	0.00	31.90	449.9	0.222E+00	2.44	87.41	31.90	29.46
.19038E+04								
200.99	0.00	31.90	456.0	0.219E+00	2.45	88.33	31.90	29.45
.19372E+04								
204.34	0.00	31.90	462.3	0.216E+00	2.46	89.25	31.90	29.44
.19707E+04								
207.68	0.00	31.90	468.6	0.213E+00	2.47	90.17	31.90	29.43
.20042E+04								
211.03	0.00	31.90	475.1	0.211E+00	2.48	91.08	31.90	29.42
.20376E+04								
214.37	0.00	31.90	481.6	0.208E+00	2.49	91.99	31.90	29.41
.20711E+04								
217.72	0.00	31.90	488.3	0.205E+00	2.50	92.89	31.90	29.40
.21045E+04								
221.07	0.00	31.90	495.0	0.202E+00	2.51	93.78	31.90	29.39
.21380E+04								
224.41	0.00	31.90	501.9	0.199E+00	2.52	94.68	31.90	29.38
.21715E+04								
227.76	0.00	31.90	508.9	0.197E+00	2.53	95.57	31.90	29.37
.22049E+04								
231.10	0.00	31.90	515.9	0.194E+00	2.54	96.45	31.90	29.36
.22384E+04								

	Predicti on nueva EDAR max verti do di l 100							
234. 45	0. 00	31. 90	523. 1	0. 191E+00	2. 55	97. 33	31. 90	29. 35
. 22718E+04								
237. 80	0. 00	31. 90	530. 4	0. 189E+00	2. 57	98. 21	31. 90	29. 33
. 23053E+04								
241. 14	0. 00	31. 90	537. 8	0. 186E+00	2. 58	99. 08	31. 90	29. 32
. 23388E+04								
244. 49	0. 00	31. 90	545. 4	0. 183E+00	2. 59	99. 95	31. 90	29. 31
. 23722E+04								
247. 83	0. 00	31. 90	553. 0	0. 181E+00	2. 61	100. 81	31. 90	29. 29
. 24057E+04								
251. 18	0. 00	31. 90	560. 7	0. 178E+00	2. 62	101. 68	31. 90	29. 28
. 24391E+04								
254. 53	0. 00	31. 90	568. 6	0. 176E+00	2. 63	102. 53	31. 90	29. 27
. 24726E+04								
257. 87	0. 00	31. 90	576. 6	0. 173E+00	2. 65	103. 39	31. 90	29. 25
. 25061E+04								
261. 22	0. 00	31. 90	584. 6	0. 171E+00	2. 66	104. 24	31. 90	29. 24
. 25395E+04								
264. 56	0. 00	31. 90	592. 9	0. 169E+00	2. 68	105. 09	31. 90	29. 22
. 25730E+04								
267. 91	0. 00	31. 90	601. 2	0. 166E+00	2. 70	105. 93	31. 90	29. 20
. 26064E+04								
271. 26	0. 00	31. 90	609. 6	0. 164E+00	2. 71	106. 77	31. 90	29. 19
. 26399E+04								
274. 60	0. 00	31. 90	618. 2	0. 162E+00	2. 73	107. 61	31. 90	29. 17
. 26734E+04								
277. 95	0. 00	31. 90	626. 8	0. 160E+00	2. 75	108. 44	31. 90	29. 15
. 27068E+04								
281. 29	0. 00	31. 90	635. 6	0. 157E+00	2. 76	109. 27	31. 90	29. 14
. 27403E+04								
284. 64	0. 00	31. 90	644. 5	0. 155E+00	2. 78	110. 10	31. 90	29. 12
. 27737E+04								
287. 99	0. 00	31. 90	653. 5	0. 153E+00	2. 80	110. 92	31. 90	29. 10
. 28072E+04								
291. 33	0. 00	31. 90	662. 7	0. 151E+00	2. 82	111. 74	31. 90	29. 08
. 28407E+04								
294. 68	0. 00	31. 90	671. 9	0. 149E+00	2. 84	112. 56	31. 90	29. 06
. 28741E+04								
298. 02	0. 00	31. 90	681. 3	0. 147E+00	2. 85	113. 38	31. 90	29. 05
. 29076E+04								
301. 37	0. 00	31. 90	690. 8	0. 145E+00	2. 87	114. 19	31. 90	29. 03
. 29410E+04								
304. 72	0. 00	31. 90	700. 5	0. 143E+00	2. 89	115. 00	31. 90	29. 01
. 29745E+04								
308. 06	0. 00	31. 90	710. 2	0. 141E+00	2. 91	115. 80	31. 90	28. 99
. 30080E+04								
311. 41	0. 00	31. 90	720. 1	0. 139E+00	2. 93	116. 61	31. 90	28. 97
. 30414E+04								
314. 75	0. 00	31. 90	730. 1	0. 137E+00	2. 95	117. 41	31. 90	28. 95
. 30749E+04								
318. 10	0. 00	31. 90	740. 2	0. 135E+00	2. 97	118. 21	31. 90	28. 93
. 31083E+04								
321. 45	0. 00	31. 90	750. 5	0. 133E+00	3. 00	119. 00	31. 90	28. 90
. 31418E+04								
324. 79	0. 00	31. 90	760. 9	0. 131E+00	3. 02	119. 79	31. 90	28. 88
. 31753E+04								
328. 14	0. 00	31. 90	771. 4	0. 130E+00	3. 04	120. 59	31. 90	28. 86
. 32087E+04								
331. 48	0. 00	31. 90	782. 0	0. 128E+00	3. 06	121. 37	31. 90	28. 84
. 32422E+04								
334. 83	0. 00	31. 90	792. 7	0. 126E+00	3. 08	122. 16	31. 90	28. 82
. 32756E+04								
338. 18	0. 00	31. 90	803. 6	0. 124E+00	3. 10	122. 94	31. 90	28. 80
. 33091E+04								
341. 52	0. 00	31. 90	814. 6	0. 123E+00	3. 13	123. 72	31. 90	28. 77
. 33426E+04								
344. 87	0. 00	31. 90	825. 8	0. 121E+00	3. 15	124. 50	31. 90	28. 75
. 33760E+04								

		Predicti on nueva EDAR max verti do di l 100							
348.21	0.00	31.90	837.0	0.119E+00	3.17	125.27	31.90	28.73	
.34095E+04									
351.56	0.00	31.90	848.4	0.118E+00	3.20	126.05	31.90	28.70	
.34430E+04									
354.91	0.00	31.90	860.0	0.116E+00	3.22	126.82	31.90	28.68	
.34764E+04									
358.25	0.00	31.90	871.6	0.115E+00	3.25	127.59	31.90	28.65	
.35099E+04									
361.60	0.00	31.90	883.4	0.113E+00	3.27	128.35	31.90	28.63	
.35433E+04									
364.94	0.00	31.90	895.3	0.112E+00	3.29	129.12	31.90	28.61	
.35768E+04									
368.29	0.00	31.90	907.4	0.110E+00	3.32	129.88	31.90	28.58	
.36103E+04									
371.64	0.00	31.90	919.6	0.109E+00	3.34	130.64	31.90	28.56	
.36437E+04									
374.98	0.00	31.90	931.9	0.107E+00	3.37	131.39	31.90	28.53	
.36772E+04									
378.33	0.00	31.90	944.3	0.106E+00	3.39	132.15	31.90	28.51	
.37106E+04									
381.67	0.00	31.90	956.9	0.105E+00	3.42	132.90	31.90	28.48	
.37441E+04									
385.02	0.00	31.90	969.6	0.103E+00	3.45	133.65	31.90	28.45	
.37776E+04									
388.37	0.00	31.90	982.5	0.102E+00	3.47	134.40	31.90	28.43	
.38110E+04									
391.71	0.00	31.90	995.5	0.100E+00	3.50	135.15	31.90	28.40	
.38445E+04									
395.06	0.00	31.90	1008.6	0.991E-01	3.53	135.89	31.90	28.37	
.38779E+04									
398.40	0.00	31.90	1021.9	0.979E-01	3.55	136.63	31.90	28.35	
.39114E+04									
401.75	0.00	31.90	1035.3	0.966E-01	3.58	137.37	31.90	28.32	
.39449E+04									
405.10	0.00	31.90	1048.8	0.953E-01	3.61	138.11	31.90	28.29	
.39783E+04									
408.44	0.00	31.90	1062.5	0.941E-01	3.63	138.85	31.90	28.27	
.40118E+04									
411.79	0.00	31.90	1076.3	0.929E-01	3.66	139.58	31.90	28.24	
.40452E+04									
415.13	0.00	31.90	1090.2	0.917E-01	3.69	140.32	31.90	28.21	
.40787E+04									
418.48	0.00	31.90	1104.3	0.906E-01	3.72	141.05	31.90	28.18	
.41122E+04									
421.83	0.00	31.90	1118.5	0.894E-01	3.75	141.78	31.90	28.15	
.41456E+04									
425.17	0.00	31.90	1132.9	0.883E-01	3.78	142.50	31.90	28.12	
.41791E+04									
428.52	0.00	31.90	1147.4	0.872E-01	3.81	143.23	31.90	28.09	
.42125E+04									
431.86	0.00	31.90	1162.0	0.861E-01	3.83	143.95	31.90	28.07	
.42460E+04									
435.21	0.00	31.90	1176.8	0.850E-01	3.86	144.67	31.90	28.04	
.42795E+04									
438.56	0.00	31.90	1191.7	0.839E-01	3.89	145.39	31.90	28.01	
.43129E+04									
441.90	0.00	31.90	1206.8	0.829E-01	3.92	146.11	31.90	27.98	
.43464E+04									
445.25	0.00	31.90	1222.0	0.818E-01	3.95	146.83	31.90	27.95	
.43798E+04									
448.59	0.00	31.90	1237.3	0.808E-01	3.98	147.54	31.90	27.92	
.44133E+04									
451.94	0.00	31.90	1252.8	0.798E-01	4.01	148.26	31.90	27.89	
.44468E+04									
455.29	0.00	31.90	1268.5	0.788E-01	4.04	148.97	31.90	27.86	
.44802E+04									
458.63	0.00	31.90	1284.2	0.779E-01	4.08	149.68	31.90	27.82	
.45137E+04									

		Predicti on nueva EDAR max verti do di l 100							
461.98	0.00	31.90	1300.2	0.769E-01	4.11	150.38	31.90	27.79	
.45471E+04									
465.32	0.00	31.90	1316.2	0.760E-01	4.14	151.09	31.90	27.76	
.45806E+04									
468.67	0.00	31.90	1332.4	0.751E-01	4.17	151.80	31.90	27.73	
.46141E+04									
472.02	0.00	31.90	1348.8	0.741E-01	4.20	152.50	31.90	27.70	
.46475E+04									
475.36	0.00	31.90	1365.3	0.732E-01	4.23	153.20	31.90	27.67	
.46810E+04									
478.71	0.00	31.90	1381.9	0.724E-01	4.27	153.90	31.90	27.63	
.47144E+04									
482.05	0.00	31.90	1398.7	0.715E-01	4.30	154.60	31.90	27.60	
.47479E+04									
485.40	0.00	31.90	1415.7	0.706E-01	4.33	155.30	31.90	27.57	
.47814E+04									
488.75	0.00	31.90	1432.7	0.698E-01	4.36	155.99	31.90	27.54	
.48148E+04									
492.09	0.00	31.90	1450.0	0.690E-01	4.40	156.68	31.90	27.50	
.48483E+04									
495.44	0.00	31.90	1467.4	0.681E-01	4.43	157.38	31.90	27.47	
.48817E+04									
498.78	0.00	31.90	1484.9	0.673E-01	4.46	158.07	31.90	27.44	
.49152E+04									
502.13	0.00	31.90	1502.6	0.666E-01	4.50	158.76	31.90	27.40	
.49487E+04									
505.48	0.00	31.90	1520.4	0.658E-01	4.53	159.45	31.90	27.37	
.49821E+04									
508.82	0.00	31.90	1538.3	0.650E-01	4.56	160.13	31.90	27.34	
.50156E+04									
512.17	0.00	31.90	1556.5	0.642E-01	4.60	160.82	31.90	27.30	
.50490E+04									
515.51	0.00	31.90	1574.7	0.635E-01	4.63	161.50	31.90	27.27	
.50825E+04									
518.86	0.00	31.90	1593.2	0.628E-01	4.67	162.18	31.90	27.23	
.51160E+04									
522.21	0.00	31.90	1611.7	0.620E-01	4.70	162.86	31.90	27.20	
.51494E+04									
525.55	0.00	31.90	1630.4	0.613E-01	4.74	163.54	31.90	27.16	
.51829E+04									
528.90	0.00	31.90	1649.3	0.606E-01	4.77	164.22	31.90	27.13	
.52163E+04									
532.24	0.00	31.90	1668.3	0.599E-01	4.81	164.90	31.90	27.09	
.52498E+04									
535.59	0.00	31.90	1687.5	0.593E-01	4.84	165.57	31.90	27.06	
.52833E+04									
538.94	0.00	31.90	1706.8	0.586E-01	4.88	166.25	31.90	27.02	
.53167E+04									
542.28	0.00	31.90	1726.3	0.579E-01	4.91	166.92	31.90	26.99	
.53502E+04									
545.63	0.00	31.90	1745.9	0.573E-01	4.95	167.59	31.90	26.95	
.53836E+04									
548.98	0.00	31.90	1765.7	0.566E-01	4.98	168.26	31.90	26.92	
.54171E+04									
552.32	0.00	31.90	1785.7	0.560E-01	5.02	168.93	31.90	26.88	
.54506E+04									
555.67	0.00	31.90	1805.8	0.554E-01	5.06	169.59	31.90	26.84	
.54840E+04									
559.01	0.00	31.90	1826.0	0.548E-01	5.09	170.26	31.90	26.81	
.55175E+04									
562.36	0.00	31.90	1846.4	0.542E-01	5.13	170.93	31.90	26.77	
.55509E+04									
565.71	0.00	31.90	1867.0	0.536E-01	5.17	171.59	31.90	26.73	
.55844E+04									
569.05	0.00	31.90	1887.7	0.530E-01	5.21	172.25	31.90	26.69	
.56179E+04									
572.40	0.00	31.90	1908.5	0.524E-01	5.24	172.91	31.90	26.66	
.56513E+04									

		Predicti on nueva EDAR max verti do di l 100							
575.74	0.00	31.90	1929.5	0.518E-01	5.28	173.57	31.90	26.62	
.56848E+04									
579.09	0.00	31.90	1950.7	0.513E-01	5.32	174.23	31.90	26.58	
.57182E+04									
582.44	0.00	31.90	1972.0	0.507E-01	5.36	174.89	31.90	26.54	
.57517E+04									
585.78	0.00	31.90	1993.5	0.502E-01	5.39	175.54	31.90	26.51	
.57852E+04									
589.13	0.00	31.90	2015.2	0.496E-01	5.43	176.20	31.90	26.47	
.58186E+04									
592.47	0.00	31.90	2037.0	0.491E-01	5.47	176.85	31.90	26.43	
.58521E+04									
595.82	0.00	31.90	2058.9	0.486E-01	5.51	177.50	31.90	26.39	
.58855E+04									
599.17	0.00	31.90	2081.1	0.481E-01	5.55	178.16	31.90	26.35	
.59190E+04									
602.51	0.00	31.90	2103.3	0.475E-01	5.59	178.81	31.90	26.31	
.59525E+04									
605.86	0.00	31.90	2125.8	0.470E-01	5.63	179.45	31.90	26.27	
.59859E+04									
609.20	0.00	31.90	2148.4	0.465E-01	5.67	180.10	31.90	26.23	
.60194E+04									
612.55	0.00	31.90	2171.1	0.461E-01	5.71	180.75	31.90	26.19	
.60528E+04									
615.90	0.00	31.90	2194.0	0.456E-01	5.75	181.39	31.90	26.15	
.60863E+04									
619.24	0.00	31.90	2217.1	0.451E-01	5.79	182.04	31.90	26.11	
.61198E+04									
622.59	0.00	31.90	2240.3	0.446E-01	5.83	182.68	31.90	26.07	
.61532E+04									
625.93	0.00	31.90	2263.7	0.442E-01	5.87	183.32	31.90	26.03	
.61867E+04									
629.28	0.00	31.90	2287.3	0.437E-01	5.91	183.97	31.90	25.99	
.62201E+04									
632.63	0.00	31.90	2311.0	0.433E-01	5.95	184.61	31.90	25.95	
.62536E+04									
635.97	0.00	31.90	2334.8	0.428E-01	5.99	185.24	31.90	25.91	
.62871E+04									
639.32	0.00	31.90	2358.9	0.424E-01	6.03	185.88	31.90	25.87	
.63205E+04									
642.66	0.00	31.90	2383.1	0.420E-01	6.07	186.52	31.90	25.83	
.63540E+04									
646.01	0.00	31.90	2407.4	0.415E-01	6.11	187.15	31.90	25.79	
.63874E+04									
649.36	0.00	31.90	2431.9	0.411E-01	6.15	187.79	31.90	25.75	
.64209E+04									
652.70	0.00	31.90	2456.6	0.407E-01	6.19	188.42	31.90	25.71	
.64544E+04									
656.05	0.00	31.90	2481.5	0.403E-01	6.23	189.06	31.90	25.67	
.64878E+04									
659.39	0.00	31.90	2506.5	0.399E-01	6.28	189.69	31.90	25.62	
.65213E+04									
662.74	0.00	31.90	2531.7	0.395E-01	6.32	190.32	31.90	25.58	
.65547E+04									
666.09	0.00	31.90	2557.0	0.391E-01	6.36	190.95	31.90	25.54	
.65882E+04									
669.43	0.00	31.90	2582.5	0.387E-01	6.40	191.58	31.90	25.50	
.66217E+04									
672.78	0.00	31.90	2608.2	0.383E-01	6.45	192.20	31.90	25.45	
.66551E+04									
676.12	0.00	31.90	2634.0	0.380E-01	6.49	192.83	31.90	25.41	
.66886E+04									
679.47	0.00	31.90	2660.0	0.376E-01	6.53	193.45	31.90	25.37	
.67220E+04									
682.82	0.00	31.90	2686.1	0.372E-01	6.57	194.08	31.90	25.33	
.67555E+04									
686.16	0.00	31.90	2712.5	0.369E-01	6.62	194.70	31.90	25.28	
.67890E+04									

		Predicti on nueva EDAR max verti do di l 100							
689.51	0.00	31.90	2739.0	0.365E-01	6.66	195.33	31.90	25.24	
.68224E+04									
692.85	0.00	31.90	2765.6	0.362E-01	6.70	195.95	31.90	25.20	
.68559E+04									
696.20	0.00	31.90	2792.4	0.358E-01	6.75	196.57	31.90	25.15	
.68893E+04									
699.55	0.00	31.90	2819.4	0.355E-01	6.79	197.19	31.90	25.11	
.69228E+04									
702.89	0.00	31.90	2846.6	0.351E-01	6.84	197.81	31.90	25.06	
.69563E+04									
706.24	0.00	31.90	2873.9	0.348E-01	6.88	198.42	31.90	25.02	
.69897E+04									
709.58	0.00	31.90	2901.4	0.345E-01	6.92	199.04	31.90	24.98	
.70232E+04									
712.93	0.00	31.90	2929.1	0.341E-01	6.97	199.66	31.90	24.93	
.70566E+04									
716.28	0.00	31.90	2956.9	0.338E-01	7.01	200.27	31.90	24.89	
.70901E+04									
719.62	0.00	31.90	2984.9	0.335E-01	7.06	200.88	31.90	24.84	
.71236E+04									
722.97	0.00	31.90	3013.0	0.332E-01	7.10	201.50	31.90	24.80	
.71570E+04									
726.31	0.00	31.90	3041.4	0.329E-01	7.15	202.11	31.90	24.75	
.71905E+04									
729.66	0.00	31.90	3069.9	0.326E-01	7.19	202.72	31.90	24.71	
.72239E+04									
733.01	0.00	31.90	3098.6	0.323E-01	7.24	203.33	31.90	24.66	
.72574E+04									
736.35	0.00	31.90	3127.4	0.320E-01	7.28	203.94	31.90	24.62	
.72909E+04									
739.70	0.00	31.90	3156.4	0.317E-01	7.33	204.55	31.90	24.57	
.73243E+04									
743.04	0.00	31.90	3185.6	0.314E-01	7.38	205.16	31.90	24.52	
.73578E+04									
746.39	0.00	31.90	3214.9	0.311E-01	7.42	205.76	31.90	24.48	
.73912E+04									
749.74	0.00	31.90	3244.5	0.308E-01	7.47	206.37	31.90	24.43	
.74247E+04									
753.08	0.00	31.90	3274.2	0.305E-01	7.51	206.97	31.90	24.39	
.74582E+04									
756.43	0.00	31.90	3304.0	0.303E-01	7.56	207.58	31.90	24.34	
.74916E+04									
759.77	0.00	31.90	3334.1	0.300E-01	7.61	208.18	31.90	24.29	
.75251E+04									
763.12	0.00	31.90	3364.3	0.297E-01	7.65	208.78	31.90	24.25	
.75585E+04									
766.47	0.00	31.90	3394.6	0.295E-01	7.70	209.39	31.90	24.20	
.75920E+04									
769.81	0.00	31.90	3425.2	0.292E-01	7.75	209.99	31.90	24.15	
.76255E+04									
773.16	0.00	31.90	3455.9	0.289E-01	7.80	210.59	31.90	24.10	
.76589E+04									
776.50	0.00	31.90	3486.8	0.287E-01	7.84	211.19	31.90	24.06	
.76924E+04									
779.85	0.00	31.90	3517.9	0.284E-01	7.89	211.78	31.90	24.01	
.77258E+04									
783.20	0.00	31.90	3549.1	0.282E-01	7.94	212.38	31.90	23.96	
.77593E+04									
786.54	0.00	31.90	3580.6	0.279E-01	7.99	212.98	31.90	23.91	
.77928E+04									
789.89	0.00	31.90	3612.1	0.277E-01	8.03	213.57	31.90	23.87	
.78262E+04									
793.23	0.00	31.90	3643.9	0.274E-01	8.08	214.17	31.90	23.82	
.78597E+04									
796.58	0.00	31.90	3675.9	0.272E-01	8.13	214.76	31.90	23.77	
.78931E+04									
799.93	0.00	31.90	3708.0	0.270E-01	8.18	215.36	31.90	23.72	
.79266E+04									

Predicti on nueva EDAR max verti do di l 100								
803. 27	0. 00	31. 90	3740. 3	0. 267E-01	8. 23	215. 95	31. 90	23. 67
. 79601E+04								
806. 62	0. 00	31. 90	3772. 7	0. 265E-01	8. 28	216. 54	31. 90	23. 62
. 79935E+04								
809. 96	0. 00	31. 90	3805. 4	0. 263E-01	8. 32	217. 13	31. 90	23. 58
. 80270E+04								
813. 31	0. 00	31. 90	3838. 2	0. 261E-01	8. 37	217. 72	31. 90	23. 53
. 80604E+04								
816. 66	0. 00	31. 90	3871. 2	0. 258E-01	8. 42	218. 31	31. 90	23. 48
. 80939E+04								
820. 00	0. 00	31. 90	3904. 3	0. 256E-01	8. 47	218. 90	31. 90	23. 43
. 81274E+04								
823. 35	0. 00	31. 90	3937. 7	0. 254E-01	8. 52	219. 49	31. 90	23. 38
. 81608E+04								
826. 69	0. 00	31. 90	3971. 2	0. 252E-01	8. 57	220. 07	31. 90	23. 33
. 81943E+04								
830. 04	0. 00	31. 90	4004. 9	0. 250E-01	8. 62	220. 66	31. 90	23. 28
. 82277E+04								
833. 39	0. 00	31. 90	4038. 8	0. 248E-01	8. 67	221. 25	31. 90	23. 23
. 82612E+04								
836. 73	0. 00	31. 90	4072. 8	0. 246E-01	8. 72	221. 83	31. 90	23. 18
. 82947E+04								
840. 08	0. 00	31. 90	4107. 1	0. 243E-01	8. 77	222. 41	31. 90	23. 13
. 83281E+04								
843. 42	0. 00	31. 90	4141. 5	0. 241E-01	8. 82	223. 00	31. 90	23. 08
. 83616E+04								
846. 77	0. 00	31. 90	4176. 1	0. 239E-01	8. 87	223. 58	31. 90	23. 03
. 83950E+04								
850. 12	0. 00	31. 90	4210. 8	0. 237E-01	8. 92	224. 16	31. 90	22. 98
. 84285E+04								
853. 46	0. 00	31. 90	4245. 8	0. 236E-01	8. 97	224. 74	31. 90	22. 93
. 84620E+04								
856. 81	0. 00	31. 90	4280. 9	0. 234E-01	9. 02	225. 32	31. 90	22. 88
. 84954E+04								
860. 15	0. 00	31. 90	4316. 2	0. 232E-01	9. 08	225. 90	31. 90	22. 82
. 85289E+04								
863. 50	0. 00	31. 90	4351. 7	0. 230E-01	9. 13	226. 48	31. 90	22. 77
. 85623E+04								
866. 85	0. 00	31. 90	4387. 3	0. 228E-01	9. 18	227. 06	31. 90	22. 72
. 85958E+04								
870. 19	0. 00	31. 90	4423. 2	0. 226E-01	9. 23	227. 64	31. 90	22. 67
. 86293E+04								
873. 54	0. 00	31. 90	4459. 2	0. 224E-01	9. 28	228. 21	31. 90	22. 62
. 86627E+04								
876. 88	0. 00	31. 90	4495. 4	0. 222E-01	9. 33	228. 79	31. 90	22. 57
. 86962E+04								
880. 23	0. 00	31. 90	4531. 8	0. 221E-01	9. 38	229. 37	31. 90	22. 52
. 87296E+04								
883. 58	0. 00	31. 90	4568. 3	0. 219E-01	9. 44	229. 94	31. 90	22. 46
. 87631E+04								
886. 92	0. 00	31. 90	4605. 1	0. 217E-01	9. 49	230. 51	31. 90	22. 41
. 87966E+04								
890. 27	0. 00	31. 90	4642. 0	0. 215E-01	9. 54	231. 09	31. 90	22. 36
. 88300E+04								
893. 61	0. 00	31. 90	4679. 1	0. 214E-01	9. 59	231. 66	31. 90	22. 31
. 88635E+04								
896. 96	0. 00	31. 90	4716. 4	0. 212E-01	9. 65	232. 23	31. 90	22. 25
. 88969E+04								
** REGULATORY MIXING ZONE BOUNDARY **								
In this prediction interval the plume DOWNSTREAM distance meets or exceeds the regulatory value = 900.00 m.								
This is the extent of the REGULATORY MIXING ZONE.								
900. 31	0. 00	31. 90	4753. 9	0. 210E-01	9. 70	232. 80	31. 90	22. 20
. 89304E+04								
903. 65	0. 00	31. 90	4791. 5	0. 209E-01	9. 75	233. 37	31. 90	22. 15
. 89639E+04								
907. 00	0. 00	31. 90	4829. 4	0. 207E-01	9. 81	233. 94	31. 90	22. 09
. 89973E+04								

		Predicti on nueva EDAR max verti do di l 100							
910.34	0.00	31.90	4867.4	0.205E-01	9.86	234.51	31.90	22.04	
.90308E+04									
913.69	0.00	31.90	4905.6	0.204E-01	9.91	235.08	31.90	21.99	
.90642E+04									
917.04	0.00	31.90	4944.0	0.202E-01	9.97	235.65	31.90	21.93	
.90977E+04									
920.38	0.00	31.90	4982.5	0.201E-01	10.02	236.21	31.90	21.88	
.91312E+04									
923.73	0.00	31.90	5021.3	0.199E-01	10.07	236.78	31.90	21.83	
.91646E+04									
927.07	0.00	31.90	5060.2	0.198E-01	10.13	237.35	31.90	21.77	
.91981E+04									
930.42	0.00	31.90	5099.3	0.196E-01	10.18	237.91	31.90	21.72	
.92315E+04									
933.77	0.00	31.90	5138.6	0.195E-01	10.24	238.48	31.90	21.66	
.92650E+04									
937.11	0.00	31.90	5178.1	0.193E-01	10.29	239.04	31.90	21.61	
.92985E+04									
940.46	0.00	31.90	5217.8	0.192E-01	10.34	239.60	31.90	21.56	
.93319E+04									
943.80	0.00	31.90	5257.6	0.190E-01	10.40	240.17	31.90	21.50	
.93654E+04									
947.15	0.00	31.90	5297.7	0.189E-01	10.45	240.73	31.90	21.45	
.93988E+04									
950.50	0.00	31.90	5337.9	0.187E-01	10.51	241.29	31.90	21.39	
.94323E+04									
953.84	0.00	31.90	5378.3	0.186E-01	10.56	241.85	31.90	21.34	
.94658E+04									
957.19	0.00	31.90	5418.9	0.185E-01	10.62	242.41	31.90	21.28	
.94992E+04									
960.53	0.00	31.90	5459.7	0.183E-01	10.67	242.97	31.90	21.23	
.95327E+04									
963.88	0.00	31.90	5500.7	0.182E-01	10.73	243.53	31.90	21.17	
.95661E+04									
967.23	0.00	31.90	5541.8	0.180E-01	10.78	244.08	31.90	21.12	
.95996E+04									
970.57	0.00	31.90	5583.2	0.179E-01	10.84	244.64	31.90	21.06	
.96331E+04									
973.92	0.00	31.90	5624.7	0.178E-01	10.90	245.20	31.90	21.00	
.96665E+04									
977.26	0.00	31.90	5666.4	0.176E-01	10.95	245.75	31.90	20.95	
.97000E+04									
980.61	0.00	31.90	5708.3	0.175E-01	11.01	246.31	31.90	20.89	
.97334E+04									
983.96	0.00	31.90	5750.4	0.174E-01	11.06	246.86	31.90	20.84	
.97669E+04									
987.30	0.00	31.90	5792.7	0.173E-01	11.12	247.42	31.90	20.78	
.98004E+04									
990.65	0.00	31.90	5835.2	0.171E-01	11.18	247.97	31.90	20.72	
.98338E+04									
993.99	0.00	31.90	5877.8	0.170E-01	11.23	248.53	31.90	20.67	
.98673E+04									
997.34	0.00	31.90	5920.7	0.169E-01	11.29	249.08	31.90	20.61	
.99007E+04									
1000.69	0.00	31.90	5963.7	0.168E-01	11.35	249.63	31.90	20.55	
.99342E+04									
1004.03	0.00	31.90	6006.9	0.166E-01	11.40	250.18	31.90	20.50	
.99677E+04									
1007.38	0.00	31.90	6050.4	0.165E-01	11.46	250.73	31.90	20.44	
.10001E+05									
1010.72	0.00	31.90	6094.0	0.164E-01	11.52	251.28	31.90	20.38	
.10035E+05									
1014.07	0.00	31.90	6137.7	0.163E-01	11.58	251.83	31.90	20.32	
.10068E+05									
1017.42	0.00	31.90	6181.7	0.162E-01	11.63	252.38	31.90	20.27	
.10102E+05									
1020.76	0.00	31.90	6225.9	0.161E-01	11.69	252.93	31.90	20.21	
.10135E+05									

		Predicti on nueva EDAR max verti do di l 100							
1024. 11	0. 00	31. 90	6270. 3	0. 159E-01	11. 75	253. 48	31. 90	20. 15	
. 10168E+05									
1027. 45	0. 00	31. 90	6314. 8	0. 158E-01	11. 81	254. 02	31. 90	20. 09	
. 10202E+05									
1030. 80	0. 00	31. 90	6359. 6	0. 157E-01	11. 87	254. 57	31. 90	20. 03	
. 10235E+05									
1034. 15	0. 00	31. 90	6404. 5	0. 156E-01	11. 92	255. 12	31. 90	19. 98	
. 10269E+05									
1037. 49	0. 00	31. 90	6449. 6	0. 155E-01	11. 98	255. 66	31. 90	19. 92	
. 10302E+05									
1040. 84	0. 00	31. 90	6494. 9	0. 154E-01	12. 04	256. 21	31. 90	19. 86	
. 10336E+05									
1044. 18	0. 00	31. 90	6540. 4	0. 153E-01	12. 10	256. 75	31. 90	19. 80	
. 10369E+05									
1047. 53	0. 00	31. 90	6586. 1	0. 152E-01	12. 16	257. 29	31. 90	19. 74	
. 10403E+05									
1050. 88	0. 00	31. 90	6632. 0	0. 151E-01	12. 22	257. 84	31. 90	19. 68	
. 10436E+05									
1054. 22	0. 00	31. 90	6678. 1	0. 150E-01	12. 28	258. 38	31. 90	19. 62	
. 10470E+05									
1057. 57	0. 00	31. 90	6724. 4	0. 149E-01	12. 34	258. 92	31. 90	19. 56	
. 10503E+05									
1060. 91	0. 00	31. 90	6770. 9	0. 148E-01	12. 40	259. 46	31. 90	19. 50	
. 10536E+05									
1064. 26	0. 00	31. 90	6817. 5	0. 147E-01	12. 45	260. 00	31. 90	19. 45	
. 10570E+05									
1067. 61	0. 00	31. 90	6864. 4	0. 146E-01	12. 51	260. 54	31. 90	19. 39	
. 10603E+05									
1070. 95	0. 00	31. 90	6911. 4	0. 145E-01	12. 57	261. 08	31. 90	19. 33	
. 10637E+05									
1074. 30	0. 00	31. 90	6958. 7	0. 144E-01	12. 63	261. 62	31. 90	19. 27	
. 10670E+05									
1077. 64	0. 00	31. 90	7006. 1	0. 143E-01	12. 69	262. 16	31. 90	19. 21	
. 10704E+05									
1080. 99	0. 00	31. 90	7053. 7	0. 142E-01	12. 75	262. 70	31. 90	19. 15	
. 10737E+05									
1084. 34	0. 00	31. 90	7101. 6	0. 141E-01	12. 81	263. 24	31. 90	19. 09	
. 10771E+05									
1087. 68	0. 00	31. 90	7149. 6	0. 140E-01	12. 87	263. 77	31. 90	19. 03	
. 10804E+05									
1091. 03	0. 00	31. 90	7197. 8	0. 139E-01	12. 94	264. 31	31. 90	18. 96	
. 10838E+05									
1094. 37	0. 00	31. 90	7246. 2	0. 138E-01	13. 00	264. 85	31. 90	18. 90	
. 10871E+05									
1097. 72	0. 00	31. 90	7294. 8	0. 137E-01	13. 06	265. 38	31. 90	18. 84	
. 10905E+05									
1101. 06	0. 00	31. 90	7343. 6	0. 136E-01	13. 12	265. 92	31. 90	18. 78	
. 10938E+05									
1104. 41	0. 00	31. 90	7392. 6	0. 135E-01	13. 18	266. 45	31. 90	18. 72	
. 10971E+05									
1107. 76	0. 00	31. 90	7441. 8	0. 134E-01	13. 24	266. 99	31. 90	18. 66	
. 11005E+05									
1111. 10	0. 00	31. 90	7491. 1	0. 133E-01	13. 30	267. 52	31. 90	18. 60	
. 11038E+05									
1114. 45	0. 00	31. 90	7540. 7	0. 133E-01	13. 36	268. 05	31. 90	18. 54	
. 11072E+05									
1117. 79	0. 00	31. 90	7590. 5	0. 132E-01	13. 42	268. 58	31. 90	18. 48	
. 11105E+05									
1121. 14	0. 00	31. 90	7640. 5	0. 131E-01	13. 49	269. 12	31. 90	18. 41	
. 11139E+05									
1124. 49	0. 00	31. 90	7690. 6	0. 130E-01	13. 55	269. 65	31. 90	18. 35	
. 11172E+05									
1127. 83	0. 00	31. 90	7741. 0	0. 129E-01	13. 61	270. 18	31. 90	18. 29	
. 11206E+05									
1131. 18	0. 00	31. 90	7791. 6	0. 128E-01	13. 67	270. 71	31. 90	18. 23	
. 11239E+05									
1134. 52	0. 00	31. 90	7842. 3	0. 128E-01	13. 73	271. 24	31. 90	18. 17	
. 11273E+05									

		Predicti on nueva EDAR max verti do di l 100							
1137.87	0.00	31.90	7893.3	0.127E-01	13.80	271.77	31.90	18.10	
. 11306E+05									
1141.22	0.00	31.90	7944.4	0.126E-01	13.86	272.30	31.90	18.04	
. 11340E+05									
1144.56	0.00	31.90	7995.8	0.125E-01	13.92	272.82	31.90	17.98	
. 11373E+05									
1147.91	0.00	31.90	8047.3	0.124E-01	13.98	273.35	31.90	17.92	
. 11406E+05									
1151.25	0.00	31.90	8099.1	0.123E-01	14.05	273.88	31.90	17.85	
. 11440E+05									
1154.60	0.00	31.90	8151.0	0.123E-01	14.11	274.41	31.90	17.79	
. 11473E+05									
1157.95	0.00	31.90	8203.1	0.122E-01	14.17	274.93	31.90	17.73	
. 11507E+05									
1161.29	0.00	31.90	8255.5	0.121E-01	14.24	275.46	31.90	17.66	
. 11540E+05									
1164.64	0.00	31.90	8308.0	0.120E-01	14.30	275.98	31.90	17.60	
. 11574E+05									
1167.98	0.00	31.90	8360.8	0.120E-01	14.36	276.51	31.90	17.54	
. 11607E+05									
1171.33	0.00	31.90	8413.7	0.119E-01	14.43	277.03	31.90	17.47	
. 11641E+05									
1174.68	0.00	31.90	8466.8	0.118E-01	14.49	277.56	31.90	17.41	
. 11674E+05									
1178.02	0.00	31.90	8520.2	0.117E-01	14.55	278.08	31.90	17.35	
. 11708E+05									
1181.37	0.00	31.90	8573.7	0.117E-01	14.62	278.60	31.90	17.28	
. 11741E+05									
1184.71	0.00	31.90	8627.4	0.116E-01	14.68	279.12	31.90	17.22	
. 11774E+05									
1188.06	0.00	31.90	8681.4	0.115E-01	14.75	279.65	31.90	17.15	
. 11808E+05									
1191.41	0.00	31.90	8735.5	0.114E-01	14.81	280.17	31.90	17.09	
. 11841E+05									
1194.75	0.00	31.90	8789.8	0.114E-01	14.87	280.69	31.90	17.03	
. 11875E+05									
1198.10	0.00	31.90	8844.4	0.113E-01	14.94	281.21	31.90	16.96	
. 11908E+05									
1201.44	0.00	31.90	8899.1	0.112E-01	15.00	281.73	31.90	16.90	
. 11942E+05									
1204.79	0.00	31.90	8954.1	0.112E-01	15.07	282.25	31.90	16.83	
. 11975E+05									
1208.14	0.00	31.90	9009.2	0.111E-01	15.13	282.77	31.90	16.77	
. 12009E+05									
1211.48	0.00	31.90	9064.5	0.110E-01	15.20	283.29	31.90	16.70	
. 12042E+05									
1214.83	0.00	31.90	9120.1	0.110E-01	15.26	283.80	31.90	16.64	
. 12076E+05									
1218.17	0.00	31.90	9175.8	0.109E-01	15.33	284.32	31.90	16.57	
. 12109E+05									
1221.52	0.00	31.90	9231.8	0.108E-01	15.40	284.84	31.90	16.50	
. 12143E+05									
1224.86	0.00	31.90	9287.9	0.108E-01	15.46	285.35	31.90	16.44	
. 12176E+05									
1228.21	0.00	31.90	9344.3	0.107E-01	15.53	285.87	31.90	16.37	
. 12209E+05									
1231.56	0.00	31.90	9400.8	0.106E-01	15.59	286.39	31.90	16.31	
. 12243E+05									
1234.90	0.00	31.90	9457.6	0.106E-01	15.66	286.90	31.90	16.24	
. 12276E+05									
1238.25	0.00	31.90	9514.5	0.105E-01	15.72	287.42	31.90	16.18	
. 12310E+05									
1241.59	0.00	31.90	9571.7	0.104E-01	15.79	287.93	31.90	16.11	
. 12343E+05									
1244.94	0.00	31.90	9629.1	0.104E-01	15.86	288.44	31.90	16.04	
. 12377E+05									
1248.29	0.00	31.90	9686.7	0.103E-01	15.92	288.96	31.90	15.98	
. 12410E+05									

		Predicti on nueva EDAR max verti do di l 100							
1251.63	0.00	31.90	9744.4	0.103E-01	15.99	289.47	31.90	15.91	
.12444E+05									
1254.98	0.00	31.90	9802.4	0.102E-01	16.06	289.98	31.90	15.84	
.12477E+05									
1258.32	0.00	31.90	9860.6	0.101E-01	16.12	290.50	31.90	15.78	
.12511E+05									
1261.67	0.00	31.90	9919.0	0.101E-01	16.19	291.01	31.90	15.71	
.12544E+05									
1265.02	0.00	31.90	9977.6	0.100E-01	16.26	291.52	31.90	15.64	
.12578E+05									
1268.36	0.00	31.90	10036.4	0.996E-02	16.32	292.03	31.90	15.58	
.12611E+05									
1271.71	0.00	31.90	10095.4	0.991E-02	16.39	292.54	31.90	15.51	
.12644E+05									
1275.05	0.00	31.90	10154.6	0.985E-02	16.46	293.05	31.90	15.44	
.12678E+05									
1278.40	0.00	31.90	10214.0	0.979E-02	16.53	293.56	31.90	15.37	
.12711E+05									
1281.75	0.00	31.90	10273.6	0.973E-02	16.59	294.07	31.90	15.31	
.12745E+05									
1285.09	0.00	31.90	10333.4	0.968E-02	16.66	294.58	31.90	15.24	
.12778E+05									
1288.44	0.00	31.90	10393.4	0.962E-02	16.73	295.09	31.90	15.17	
.12812E+05									
1291.78	0.00	31.90	10453.7	0.957E-02	16.80	295.59	31.90	15.10	
.12845E+05									
1295.13	0.00	31.90	10514.1	0.951E-02	16.87	296.10	31.90	15.03	
.12879E+05									
1298.48	0.00	31.90	10574.8	0.946E-02	16.93	296.61	31.90	14.97	
.12912E+05									
1301.82	0.00	31.90	10635.6	0.940E-02	17.00	297.11	31.90	14.90	
.12946E+05									
1305.17	0.00	31.90	10696.7	0.935E-02	17.07	297.62	31.90	14.83	
.12979E+05									
1308.51	0.00	31.90	10758.0	0.930E-02	17.14	298.13	31.90	14.76	
.13012E+05									
1311.86	0.00	31.90	10819.4	0.924E-02	17.21	298.63	31.90	14.69	
.13046E+05									
1315.21	0.00	31.90	10881.1	0.919E-02	17.28	299.14	31.90	14.62	
.13079E+05									
1318.55	0.00	31.90	10943.0	0.914E-02	17.35	299.64	31.90	14.55	
.13113E+05									
1321.90	0.00	31.90	11005.1	0.909E-02	17.42	300.14	31.90	14.48	
.13146E+05									
1325.24	0.00	31.90	11067.4	0.904E-02	17.49	300.65	31.90	14.41	
.13180E+05									
1328.59	0.00	31.90	11129.9	0.898E-02	17.56	301.15	31.90	14.34	
.13213E+05									
1331.94	0.00	31.90	11192.6	0.893E-02	17.62	301.65	31.90	14.28	
.13247E+05									
1335.28	0.00	31.90	11255.6	0.888E-02	17.69	302.16	31.90	14.21	
.13280E+05									
1338.63	0.00	31.90	11318.7	0.883E-02	17.76	302.66	31.90	14.14	
.13314E+05									
1341.97	0.00	31.90	11382.0	0.879E-02	17.83	303.16	31.90	14.07	
.13347E+05									
1345.32	0.00	31.90	11445.6	0.874E-02	17.90	303.66	31.90	14.00	
.13381E+05									
1348.67	0.00	31.90	11509.4	0.869E-02	17.97	304.16	31.90	13.93	
.13414E+05									
1352.01	0.00	31.90	11573.3	0.864E-02	18.04	304.66	31.90	13.86	
.13447E+05									
1355.36	0.00	31.90	11637.5	0.859E-02	18.11	305.16	31.90	13.79	
.13481E+05									
1358.70	0.00	31.90	11701.9	0.855E-02	18.18	305.66	31.90	13.72	
.13514E+05									
1362.05	0.00	31.90	11766.5	0.850E-02	18.26	306.16	31.90	13.64	
.13548E+05									

		Predicti on nueva EDAR max verti do di l 100							
1365.39	0.00	31.90	11831.3	0.845E-02	18.33	306.66	31.90	13.57	
.13581E+05									
1368.74	0.00	31.90	11896.3	0.841E-02	18.40	307.16	31.90	13.50	
.13615E+05									
1372.09	0.00	31.90	11961.6	0.836E-02	18.47	307.65	31.90	13.43	
.13648E+05									
1375.43	0.00	31.90	12027.0	0.831E-02	18.54	308.15	31.90	13.36	
.13682E+05									
1378.78	0.00	31.90	12092.7	0.827E-02	18.61	308.65	31.90	13.29	
.13715E+05									
1382.12	0.00	31.90	12158.5	0.822E-02	18.68	309.15	31.90	13.22	
.13749E+05									
1385.47	0.00	31.90	12224.6	0.818E-02	18.75	309.64	31.90	13.15	
.13782E+05									
1388.82	0.00	31.90	12290.9	0.814E-02	18.82	310.14	31.90	13.08	
.13816E+05									
1392.16	0.00	31.90	12357.4	0.809E-02	18.90	310.63	31.90	13.00	
.13849E+05									
1395.51	0.00	31.90	12424.1	0.805E-02	18.97	311.13	31.90	12.93	
.13882E+05									
1398.85	0.00	31.90	12491.0	0.801E-02	19.04	311.62	31.90	12.86	
.13916E+05									
1402.20	0.00	31.90	12558.1	0.796E-02	19.11	312.12	31.90	12.79	
.13949E+05									
1405.55	0.00	31.90	12625.5	0.792E-02	19.18	312.61	31.90	12.72	
.13983E+05									
1408.89	0.00	31.90	12693.0	0.788E-02	19.26	313.11	31.90	12.64	
.14016E+05									
1412.24	0.00	31.90	12760.8	0.784E-02	19.33	313.60	31.90	12.57	
.14050E+05									
1415.58	0.00	31.90	12828.8	0.779E-02	19.40	314.09	31.90	12.50	
.14083E+05									
1418.93	0.00	31.90	12897.0	0.775E-02	19.47	314.58	31.90	12.43	
.14117E+05									
1422.28	0.00	31.90	12965.4	0.771E-02	19.55	315.08	31.90	12.35	
.14150E+05									
1425.62	0.00	31.90	13034.0	0.767E-02	19.62	315.57	31.90	12.28	
.14184E+05									
1428.97	0.00	31.90	13102.8	0.763E-02	19.69	316.06	31.90	12.21	
.14217E+05									
1432.31	0.00	31.90	13171.9	0.759E-02	19.77	316.55	31.90	12.13	
.14250E+05									
1435.66	0.00	31.90	13241.2	0.755E-02	19.84	317.04	31.90	12.06	
.14284E+05									
1439.01	0.00	31.90	13310.6	0.751E-02	19.91	317.53	31.90	11.99	
.14317E+05									
1442.35	0.00	31.90	13380.3	0.747E-02	19.99	318.02	31.90	11.91	
.14351E+05									
1445.70	0.00	31.90	13450.2	0.743E-02	20.06	318.51	31.90	11.84	
.14384E+05									
1449.04	0.00	31.90	13520.3	0.740E-02	20.13	319.00	31.90	11.77	
.14418E+05									
1452.39	0.00	31.90	13590.7	0.736E-02	20.21	319.49	31.90	11.69	
.14451E+05									
1455.74	0.00	31.90	13661.2	0.732E-02	20.28	319.98	31.90	11.62	
.14485E+05									
1459.08	0.00	31.90	13732.0	0.728E-02	20.35	320.46	31.90	11.55	
.14518E+05									
1462.43	0.00	31.90	13802.9	0.724E-02	20.43	320.95	31.90	11.47	
.14552E+05									
1465.77	0.00	31.90	13874.1	0.721E-02	20.50	321.44	31.90	11.40	
.14585E+05									
1469.12	0.00	31.90	13945.5	0.717E-02	20.58	321.92	31.90	11.32	
.14619E+05									
1472.47	0.00	31.90	14017.1	0.713E-02	20.65	322.41	31.90	11.25	
.14652E+05									
1475.81	0.00	31.90	14089.0	0.710E-02	20.73	322.90	31.90	11.17	
.14685E+05									

		Predicti on nueva EDAR max verti do di l 100							
1479.16	0.00	31.90	14161.0	0.706E-02	20.80	323.38	31.90	11.10	
. 14719E+05									
1482.50	0.00	31.90	14233.3	0.703E-02	20.88	323.87	31.90	11.02	
. 14752E+05									
1485.85	0.00	31.90	14305.8	0.699E-02	20.95	324.35	31.90	10.95	
. 14786E+05									
1489.19	0.00	31.90	14378.5	0.695E-02	21.03	324.84	31.90	10.87	
. 14819E+05									
1492.54	0.00	31.90	14451.4	0.692E-02	21.10	325.32	31.90	10.80	
. 14853E+05									
1495.89	0.00	31.90	14524.5	0.688E-02	21.18	325.81	31.90	10.72	
. 14886E+05									
1499.23	0.00	31.90	14597.9	0.685E-02	21.25	326.29	31.90	10.65	
. 14920E+05									
1502.58	0.00	31.90	14671.4	0.682E-02	21.33	326.77	31.90	10.57	
. 14953E+05									
1505.92	0.00	31.90	14745.2	0.678E-02	21.40	327.26	31.90	10.50	
. 14987E+05									
1509.27	0.00	31.90	14819.2	0.675E-02	21.48	327.74	31.90	10.42	
. 15020E+05									
1512.62	0.00	31.90	14893.4	0.671E-02	21.55	328.22	31.90	10.35	
. 15054E+05									
1515.96	0.00	31.90	14967.9	0.668E-02	21.63	328.70	31.90	10.27	
. 15087E+05									
1519.31	0.00	31.90	15042.5	0.665E-02	21.71	329.18	31.90	10.19	
. 15120E+05									
1522.65	0.00	31.90	15117.4	0.661E-02	21.78	329.67	31.90	10.12	
. 15154E+05									
1526.00	0.00	31.90	15192.5	0.658E-02	21.86	330.15	31.90	10.04	
. 15187E+05									
1529.35	0.00	31.90	15267.8	0.655E-02	21.93	330.63	31.90	9.97	
. 15221E+05									
1532.69	0.00	31.90	15343.3	0.652E-02	22.01	331.11	31.90	9.89	
. 15254E+05									
1536.04	0.00	31.90	15419.0	0.649E-02	22.09	331.59	31.90	9.81	
. 15288E+05									
1539.38	0.00	31.90	15495.0	0.645E-02	22.16	332.07	31.90	9.74	
. 15321E+05									
1542.73	0.00	31.90	15571.2	0.642E-02	22.24	332.55	31.90	9.66	
. 15355E+05									
1546.08	0.00	31.90	15647.6	0.639E-02	22.32	333.02	31.90	9.58	
. 15388E+05									
1549.42	0.00	31.90	15724.2	0.636E-02	22.40	333.50	31.90	9.50	
. 15422E+05									
1552.77	0.00	31.90	15801.0	0.633E-02	22.47	333.98	31.90	9.43	
. 15455E+05									
1556.11	0.00	31.90	15878.1	0.630E-02	22.55	334.46	31.90	9.35	
. 15488E+05									
1559.46	0.00	31.90	15955.4	0.627E-02	22.63	334.94	31.90	9.27	
. 15522E+05									
1562.81	0.00	31.90	16032.9	0.624E-02	22.71	335.41	31.90	9.19	
. 15555E+05									
1566.15	0.00	31.90	16110.6	0.621E-02	22.78	335.89	31.90	9.12	
. 15589E+05									
1569.50	0.00	31.90	16188.5	0.618E-02	22.86	336.37	31.90	9.04	
. 15622E+05									
1572.84	0.00	31.90	16266.7	0.615E-02	22.94	336.84	31.90	8.96	
. 15656E+05									
1576.19	0.00	31.90	16345.0	0.612E-02	23.02	337.32	31.90	8.88	
. 15689E+05									
1579.54	0.00	31.90	16423.6	0.609E-02	23.09	337.79	31.90	8.81	
. 15723E+05									
1582.88	0.00	31.90	16502.5	0.606E-02	23.17	338.27	31.90	8.73	
. 15756E+05									
1586.23	0.00	31.90	16581.5	0.603E-02	23.25	338.74	31.90	8.65	
. 15790E+05									
1589.57	0.00	31.90	16660.8	0.600E-02	23.33	339.22	31.90	8.57	
. 15823E+05									

		Prediction nueva EDAR max vertido di l 100							
1592.92	0.00	31.90	16740.2	0.597E-02	23.41	339.69	31.90	8.49	
.15857E+05									
1596.27	0.00	31.90	16819.9	0.595E-02	23.49	340.17	31.90	8.41	
.15890E+05									
1599.61	0.00	31.90	16899.9	0.592E-02	23.57	340.64	31.90	8.33	
.15923E+05									
1602.96	0.00	31.90	16980.0	0.589E-02	23.64	341.11	31.90	8.26	
.15957E+05									
1606.30	0.00	31.90	17060.4	0.586E-02	23.72	341.59	31.90	8.18	
.15990E+05									
1609.65	0.00	31.90	17141.0	0.583E-02	23.80	342.06	31.90	8.10	
.16024E+05									
1612.99	0.00	31.90	17221.8	0.581E-02	23.88	342.53	31.90	8.02	
.16057E+05									
1616.34	0.00	31.90	17302.8	0.578E-02	23.96	343.00	31.90	7.94	
.16091E+05									
1619.69	0.00	31.90	17384.1	0.575E-02	24.04	343.47	31.90	7.86	
.16124E+05									
1623.03	0.00	31.90	17465.6	0.573E-02	24.12	343.94	31.90	7.78	
.16158E+05									
1626.38	0.00	31.90	17547.3	0.570E-02	24.20	344.42	31.90	7.70	
.16191E+05									
1629.72	0.00	31.90	17629.2	0.567E-02	24.28	344.89	31.90	7.62	
.16225E+05									
1633.07	0.00	31.90	17711.3	0.565E-02	24.36	345.36	31.90	7.54	
.16258E+05									
1636.42	0.00	31.90	17793.7	0.562E-02	24.44	345.83	31.90	7.46	
.16292E+05									
1639.76	0.00	31.90	17876.3	0.559E-02	24.52	346.30	31.90	7.38	
.16325E+05									
1643.11	0.00	31.90	17959.1	0.557E-02	24.60	346.77	31.90	7.30	
.16358E+05									
1646.45	0.00	31.90	18042.2	0.554E-02	24.68	347.23	31.90	7.22	
.16392E+05									
1649.80	0.00	31.90	18125.4	0.552E-02	24.76	347.70	31.90	7.14	
.16425E+05									
1653.15	0.00	31.90	18208.9	0.549E-02	24.84	348.17	31.90	7.06	
.16459E+05									
1656.49	0.00	31.90	18292.6	0.547E-02	24.92	348.64	31.90	6.98	
.16492E+05									
1659.84	0.00	31.90	18376.6	0.544E-02	25.00	349.11	31.90	6.90	
.16526E+05									
1663.18	0.00	31.90	18460.7	0.542E-02	25.08	349.57	31.90	6.82	
.16559E+05									
1666.53	0.00	31.90	18545.1	0.539E-02	25.17	350.04	31.90	6.73	
.16593E+05									
1669.88	0.00	31.90	18629.7	0.537E-02	25.25	350.51	31.90	6.65	
.16626E+05									
1673.22	0.00	31.90	18714.6	0.534E-02	25.33	350.98	31.90	6.57	
.16660E+05									
1676.57	0.00	31.90	18799.6	0.532E-02	25.41	351.44	31.90	6.49	
.16693E+05									
1679.91	0.00	31.90	18884.9	0.530E-02	25.49	351.91	31.90	6.41	
.16726E+05									
1683.26	0.00	31.90	18970.4	0.527E-02	25.57	352.37	31.90	6.33	
.16760E+05									
1686.61	0.00	31.90	19056.2	0.525E-02	25.65	352.84	31.90	6.25	
.16793E+05									
1689.95	0.00	31.90	19142.1	0.522E-02	25.74	353.30	31.90	6.16	
.16827E+05									
1693.30	0.00	31.90	19228.3	0.520E-02	25.82	353.77	31.90	6.08	
.16860E+05									
1696.64	0.00	31.90	19314.7	0.518E-02	25.90	354.23	31.90	6.00	
.16894E+05									
1699.99	0.00	31.90	19401.4	0.515E-02	25.98	354.70	31.90	5.92	
.16927E+05									
Cumulative travel time = 16927.3438 sec (4.70 hrs)									

END OF MOD141: BUOYANT AMBIENT SPREADING

Página 22

Anejo 2 – Informe Cormix dilución absoluto en campo cercano

Prediction nueva EDAR coli							
X	Y	Z	S	C	B	Uc	TT
0.00	0.00	0.30	1.0	0.100E+07	0.07	6.051	.00000E+00

END OF MOD101: DISCHARGE MODULE

BEGIN CORJET (MOD110): JET/PLUME NEAR-FIELD MIXING REGION

Jet/plume transition motion in weak crossflow.

Zone of flow establishment:	THETA E=	89.61	SIGMA E=	0.00
LE = 0.67 XE = 0.00 YE = 0.00 ZE = 0.97				

Profile definitions:

B = Gaussian 1/e (37%) half-width, normal to trajectory
 S = hydrodynamic centerline dilution
 C = centerline concentration (includes reaction effects, if any)
 Uc = Local centerline excess velocity (above ambient)
 TT = Cumulative travel time

X	Y	Z	S	C	B	Uc	TT
0.00	0.00	0.30	1.0	0.100E+07	0.07	6.051	.00000E+00
0.00	0.00	0.97	1.0	0.100E+07	0.08	6.051	.17483E-01
0.00	0.00	1.09	1.2	0.860E+06	0.10	6.051	.37799E-01
0.01	0.00	1.22	1.3	0.753E+06	0.11	5.413	.60939E-01
0.01	0.00	1.35	1.5	0.670E+06	0.13	4.825	.86895E-01
0.01	0.00	1.47	1.7	0.602E+06	0.14	4.353	.11566E+00
0.01	0.00	1.60	1.8	0.547E+06	0.15	3.967	.14721E+00
0.02	0.00	1.72	2.0	0.501E+06	0.17	3.645	.18155E+00
0.02	0.00	1.85	2.2	0.461E+06	0.18	3.372	.21867E+00
0.03	0.00	1.97	2.3	0.428E+06	0.20	3.137	.25854E+00
0.04	0.00	2.10	2.5	0.398E+06	0.21	2.934	.30115E+00
0.04	0.00	2.22	2.7	0.372E+06	0.22	2.757	.34650E+00
0.05	0.00	2.35	2.9	0.349E+06	0.24	2.600	.39456E+00
0.06	0.00	2.47	3.0	0.329E+06	0.25	2.461	.44533E+00
0.07	0.00	2.60	3.2	0.311E+06	0.26	2.336	.49878E+00
0.08	0.00	2.72	3.4	0.294E+06	0.28	2.224	.55490E+00
0.09	0.00	2.85	3.6	0.279E+06	0.29	2.123	.61367E+00
0.10	0.00	2.97	3.8	0.265E+06	0.31	2.031	.67508E+00
0.11	0.00	3.10	4.0	0.253E+06	0.32	1.947	.73911E+00
0.12	0.00	3.22	4.1	0.241E+06	0.33	1.870	.80574E+00
0.13	0.00	3.35	4.3	0.230E+06	0.35	1.799	.87495E+00
0.15	0.00	3.47	4.5	0.220E+06	0.36	1.734	.94673E+00
0.16	0.00	3.59	4.7	0.211E+06	0.38	1.674	.10211E+01
0.18	0.00	3.72	4.9	0.203E+06	0.39	1.618	.10979E+01
0.19	0.00	3.84	5.1	0.195E+06	0.41	1.566	.11773E+01
0.21	0.00	3.97	5.3	0.187E+06	0.42	1.517	.12591E+01
0.22	0.00	4.09	5.6	0.180E+06	0.43	1.472	.13435E+01
0.24	0.00	4.22	5.8	0.173E+06	0.45	1.429	.14303E+01
0.26	0.00	4.34	6.0	0.167E+06	0.46	1.389	.15195E+01
0.28	0.00	4.46	6.2	0.161E+06	0.48	1.352	.16111E+01
0.30	0.00	4.59	6.4	0.156E+06	0.49	1.316	.17052E+01
0.32	0.00	4.71	6.6	0.150E+06	0.51	1.283	.18016E+01
0.34	0.00	4.83	6.9	0.145E+06	0.52	1.251	.19004E+01
0.36	0.00	4.96	7.1	0.141E+06	0.54	1.221	.20015E+01
0.38	0.00	5.08	7.3	0.136E+06	0.55	1.193	.21050E+01
0.40	0.00	5.20	7.6	0.132E+06	0.57	1.166	.22108E+01
0.43	0.00	5.33	7.8	0.128E+06	0.58	1.140	.23189E+01
0.45	0.00	5.45	8.1	0.124E+06	0.60	1.116	.24292E+01
0.47	0.00	5.57	8.3	0.120E+06	0.61	1.093	.25418E+01
0.50	0.00	5.70	8.6	0.117E+06	0.63	1.070	.26567E+01
0.53	0.00	5.82	8.8	0.113E+06	0.64	1.049	.27737E+01
0.55	0.00	5.94	9.1	0.110E+06	0.66	1.029	.28930E+01
0.58	0.00	6.06	9.3	0.107E+06	0.67	1.009	.30145E+01
0.61	0.00	6.19	9.6	0.104E+06	0.69	0.991	.31382E+01
0.63	0.00	6.31	9.9	0.101E+06	0.70	0.973	.32640E+01

Prediction nueva EDAR coli

0.66	0.00	6.43	10.2	0.983E+05	0.72	0.956	.33919E+01
0.69	0.00	6.55	10.4	0.956E+05	0.73	0.939	.35220E+01
0.72	0.00	6.67	10.7	0.931E+05	0.75	0.923	.36542E+01
0.75	0.00	6.80	11.0	0.907E+05	0.76	0.908	.37885E+01
0.78	0.00	6.92	11.3	0.883E+05	0.78	0.893	.39249E+01
0.81	0.00	7.04	11.6	0.860E+05	0.79	0.879	.40634E+01
0.85	0.00	7.16	11.9	0.838E+05	0.81	0.865	.42039E+01
0.88	0.00	7.28	12.2	0.817E+05	0.83	0.852	.43464E+01
0.91	0.00	7.40	12.5	0.797E+05	0.84	0.840	.44910E+01
0.95	0.00	7.52	12.8	0.777E+05	0.86	0.827	.46376E+01
0.98	0.00	7.64	13.2	0.758E+05	0.87	0.815	.47862E+01
1.01	0.00	7.76	13.5	0.740E+05	0.89	0.804	.49368E+01
1.05	0.00	7.88	13.8	0.723E+05	0.91	0.792	.50894E+01
1.09	0.00	8.00	14.2	0.705E+05	0.92	0.782	.52439E+01
1.12	0.00	8.12	14.5	0.689E+05	0.94	0.771	.54004E+01
1.16	0.00	8.24	14.8	0.673E+05	0.95	0.761	.55588E+01
1.20	0.00	8.36	15.2	0.657E+05	0.97	0.751	.57192E+01
1.23	0.00	8.48	15.5	0.643E+05	0.99	0.741	.58814E+01
1.27	0.00	8.60	15.9	0.628E+05	1.00	0.732	.60456E+01
1.31	0.00	8.72	16.3	0.614E+05	1.02	0.723	.62117E+01
1.35	0.00	8.84	16.6	0.600E+05	1.04	0.714	.63796E+01
1.39	0.00	8.96	17.0	0.587E+05	1.05	0.705	.65494E+01
1.43	0.00	9.08	17.4	0.574E+05	1.07	0.697	.67211E+01
1.47	0.00	9.20	17.8	0.562E+05	1.09	0.689	.68946E+01
1.51	0.00	9.31	18.1	0.550E+05	1.10	0.681	.70700E+01
1.56	0.00	9.43	18.5	0.538E+05	1.12	0.673	.72472E+01
1.60	0.00	9.55	18.9	0.527E+05	1.14	0.666	.74262E+01
1.64	0.00	9.67	19.3	0.516E+05	1.15	0.658	.76071E+01
1.68	0.00	9.79	19.7	0.505E+05	1.17	0.651	.77897E+01
1.73	0.00	9.90	20.2	0.495E+05	1.19	0.644	.79741E+01
1.77	0.00	10.02	20.6	0.485E+05	1.21	0.637	.81603E+01
1.82	0.00	10.14	21.0	0.475E+05	1.22	0.630	.83483E+01
1.86	0.00	10.25	21.4	0.466E+05	1.24	0.624	.85380E+01
1.91	0.00	10.37	21.9	0.456E+05	1.26	0.618	.87295E+01
1.95	0.00	10.49	22.3	0.447E+05	1.28	0.611	.89228E+01
2.00	0.00	10.60	22.7	0.438E+05	1.29	0.605	.91177E+01
2.04	0.00	10.72	23.2	0.430E+05	1.31	0.599	.93145E+01
2.09	0.00	10.84	23.6	0.422E+05	1.33	0.593	.95129E+01
2.14	0.00	10.95	24.1	0.414E+05	1.35	0.588	.97130E+01
2.19	0.00	11.07	24.6	0.406E+05	1.36	0.582	.99148E+01
2.24	0.00	11.18	25.0	0.398E+05	1.38	0.577	.10118E+02
2.28	0.00	11.30	25.5	0.391E+05	1.40	0.572	.10323E+02
2.33	0.00	11.41	26.0	0.384E+05	1.42	0.567	.10530E+02
2.38	0.00	11.53	26.4	0.377E+05	1.43	0.562	.10738E+02
2.43	0.00	11.64	26.9	0.370E+05	1.45	0.557	.10948E+02
2.48	0.00	11.76	27.4	0.364E+05	1.47	0.553	.11159E+02
2.53	0.00	11.87	27.9	0.358E+05	1.48	0.548	.11372E+02
2.59	0.00	11.99	28.3	0.352E+05	1.50	0.544	.11586E+02
2.64	0.00	12.10	28.8	0.346E+05	1.52	0.540	.11801E+02
2.69	0.00	12.22	29.3	0.340E+05	1.54	0.536	.12018E+02
2.74	0.00	12.33	29.8	0.334E+05	1.55	0.532	.12237E+02
2.79	0.00	12.44	30.3	0.329E+05	1.57	0.528	.12457E+02
2.85	0.00	12.56	30.8	0.324E+05	1.59	0.524	.12678E+02
2.90	0.00	12.67	31.3	0.318E+05	1.60	0.520	.12901E+02
2.95	0.00	12.78	31.8	0.313E+05	1.62	0.517	.13124E+02
3.01	0.00	12.90	32.3	0.308E+05	1.64	0.513	.13350E+02
3.06	0.00	13.01	32.8	0.304E+05	1.65	0.510	.13576E+02
3.11	0.00	13.12	33.3	0.299E+05	1.67	0.506	.13804E+02
3.17	0.00	13.24	33.8	0.294E+05	1.69	0.503	.14033E+02
3.22	0.00	13.35	34.4	0.290E+05	1.70	0.500	.14264E+02
3.28	0.00	13.46	34.9	0.285E+05	1.72	0.496	.14496E+02
3.33	0.00	13.57	35.4	0.281E+05	1.74	0.493	.14728E+02
3.39	0.00	13.69	35.9	0.277E+05	1.75	0.490	.14963E+02
3.45	0.00	13.80	36.5	0.273E+05	1.77	0.487	.15198E+02
3.50	0.00	13.91	37.0	0.269E+05	1.79	0.484	.15435E+02
3.56	0.00	14.02	37.5	0.265E+05	1.80	0.481	.15673E+02
3.62	0.00	14.13	38.1	0.261E+05	1.82	0.478	.15912E+02
3.67	0.00	14.24	38.6	0.258E+05	1.83	0.476	.16152E+02

Prediction nueva EDAR coli

3.73	0.00	14.36	39.2	0.254E+05	1.85	0.473	.16393E+02
3.79	0.00	14.47	39.7	0.251E+05	1.87	0.470	.16636E+02
3.85	0.00	14.58	40.3	0.247E+05	1.88	0.468	.16879E+02
3.91	0.00	14.69	40.8	0.244E+05	1.90	0.465	.17124E+02
3.96	0.00	14.80	41.4	0.240E+05	1.92	0.462	.17370E+02
4.02	0.00	14.91	41.9	0.237E+05	1.93	0.460	.17617E+02
4.08	0.00	15.02	42.5	0.234E+05	1.95	0.457	.17865E+02
4.14	0.00	15.13	43.1	0.231E+05	1.97	0.455	.18115E+02
4.20	0.00	15.24	43.6	0.228E+05	1.98	0.453	.18365E+02
4.26	0.00	15.35	44.2	0.225E+05	2.00	0.450	.18616E+02
4.32	0.00	15.46	44.8	0.222E+05	2.01	0.448	.18869E+02
4.38	0.00	15.57	45.4	0.219E+05	2.03	0.446	.19123E+02
4.44	0.00	15.68	46.0	0.216E+05	2.05	0.443	.19377E+02
4.50	0.00	15.79	46.6	0.213E+05	2.06	0.441	.19633E+02
4.56	0.00	15.90	47.2	0.211E+05	2.08	0.439	.19890E+02
4.62	0.00	16.01	47.8	0.208E+05	2.10	0.437	.20148E+02
4.69	0.00	16.12	48.4	0.206E+05	2.11	0.435	.20407E+02
4.75	0.00	16.23	49.0	0.203E+05	2.13	0.433	.20667E+02
4.81	0.00	16.34	49.6	0.200E+05	2.15	0.430	.20928E+02
4.87	0.00	16.45	50.2	0.198E+05	2.16	0.428	.21190E+02
4.93	0.00	16.55	50.8	0.196E+05	2.18	0.426	.21453E+02
5.00	0.00	16.66	51.4	0.193E+05	2.19	0.424	.21717E+02
5.06	0.00	16.77	52.0	0.191E+05	2.21	0.422	.21982E+02
5.12	0.00	16.88	52.6	0.189E+05	2.23	0.420	.22248E+02
5.19	0.00	16.99	53.3	0.186E+05	2.24	0.419	.22515E+02
5.25	0.00	17.10	53.9	0.184E+05	2.26	0.417	.22783E+02
5.31	0.00	17.20	54.5	0.182E+05	2.28	0.415	.23052E+02
5.38	0.00	17.31	55.2	0.180E+05	2.29	0.413	.23322E+02
5.44	0.00	17.42	55.8	0.178E+05	2.31	0.411	.23592E+02
5.51	0.00	17.53	56.4	0.176E+05	2.32	0.409	.23864E+02
5.57	0.00	17.63	57.1	0.174E+05	2.34	0.408	.24137E+02
5.63	0.00	17.74	57.7	0.172E+05	2.36	0.406	.24411E+02
5.70	0.00	17.85	58.4	0.170E+05	2.37	0.404	.24686E+02
5.76	0.00	17.96	59.1	0.168E+05	2.39	0.402	.24961E+02
5.83	0.00	18.06	59.7	0.166E+05	2.41	0.401	.25238E+02
5.90	0.00	18.17	60.4	0.164E+05	2.42	0.399	.25516E+02
5.96	0.00	18.28	61.0	0.163E+05	2.44	0.397	.25794E+02
6.03	0.00	18.38	61.7	0.161E+05	2.46	0.396	.26074E+02
6.09	0.00	18.49	62.4	0.159E+05	2.47	0.394	.26354E+02
6.16	0.00	18.60	63.1	0.157E+05	2.49	0.392	.26635E+02
6.23	0.00	18.70	63.7	0.156E+05	2.50	0.391	.26917E+02
6.29	0.00	18.81	64.4	0.154E+05	2.52	0.389	.27201E+02
6.36	0.00	18.91	65.1	0.152E+05	2.54	0.388	.27485E+02
6.43	0.00	19.02	65.8	0.151E+05	2.55	0.386	.27769E+02
6.49	0.00	19.13	66.5	0.149E+05	2.57	0.385	.28055E+02
6.56	0.00	19.23	67.2	0.148E+05	2.59	0.383	.28342E+02
6.63	0.00	19.34	67.9	0.146E+05	2.60	0.382	.28630E+02
6.70	0.00	19.44	68.6	0.144E+05	2.62	0.380	.28918E+02
6.76	0.00	19.55	69.3	0.143E+05	2.64	0.379	.29207E+02
6.83	0.00	19.65	70.0	0.142E+05	2.65	0.377	.29498E+02
6.90	0.00	19.76	70.7	0.140E+05	2.67	0.376	.29789E+02
6.97	0.00	19.86	71.4	0.139E+05	2.68	0.374	.30081E+02
7.04	0.00	19.97	72.2	0.137E+05	2.70	0.373	.30374E+02
7.10	0.00	20.07	72.9	0.136E+05	2.72	0.372	.30668E+02
7.17	0.00	20.18	73.6	0.135E+05	2.73	0.370	.30962E+02
7.24	0.00	20.28	74.3	0.133E+05	2.75	0.369	.31258E+02
7.31	0.00	20.39	75.1	0.132E+05	2.77	0.367	.31554E+02
7.38	0.00	20.49	75.8	0.131E+05	2.78	0.366	.31851E+02
7.45	0.00	20.60	76.6	0.129E+05	2.80	0.365	.32149E+02
7.52	0.00	20.70	77.3	0.128E+05	2.82	0.363	.32448E+02
7.59	0.00	20.80	78.1	0.127E+05	2.83	0.362	.32748E+02
7.66	0.00	20.91	78.8	0.126E+05	2.85	0.361	.33048E+02
7.73	0.00	21.01	79.6	0.124E+05	2.87	0.359	.33350E+02
7.80	0.00	21.11	80.3	0.123E+05	2.88	0.358	.33652E+02
7.87	0.00	21.22	81.1	0.122E+05	2.90	0.357	.33955E+02
7.94	0.00	21.32	81.8	0.121E+05	2.91	0.356	.34259E+02
8.01	0.00	21.43	82.6	0.120E+05	2.93	0.354	.34564E+02
8.08	0.00	21.53	83.4	0.119E+05	2.95	0.353	.34870E+02

Prediction nueva EDAR coli							
8.15	0.00	21.63	84.2	0.118E+05	2.96	0.352	.35176E+02
8.23	0.00	21.73	84.9	0.116E+05	2.98	0.351	.35483E+02
8.30	0.00	21.84	85.7	0.115E+05	3.00	0.350	.35791E+02
8.37	0.00	21.94	86.5	0.114E+05	3.01	0.348	.36100E+02
8.44	0.00	22.04	87.3	0.113E+05	3.03	0.347	.36410E+02
8.51	0.00	22.15	88.1	0.112E+05	3.05	0.346	.36720E+02
8.58	0.00	22.25	88.9	0.111E+05	3.06	0.345	.37032E+02
8.66	0.00	22.35	89.7	0.110E+05	3.08	0.344	.37344E+02
8.73	0.00	22.45	90.5	0.109E+05	3.10	0.343	.37657E+02
8.80	0.00	22.56	91.3	0.108E+05	3.11	0.341	.37970E+02
8.87	0.00	22.66	92.1	0.107E+05	3.13	0.340	.38285E+02
8.95	0.00	22.76	92.9	0.106E+05	3.15	0.339	.38600E+02
9.02	0.00	22.86	93.7	0.105E+05	3.16	0.338	.38916E+02
9.09	0.00	22.96	94.5	0.105E+05	3.18	0.337	.39233E+02
9.17	0.00	23.07	95.3	0.104E+05	3.19	0.336	.39551E+02
9.24	0.00	23.17	96.2	0.103E+05	3.21	0.335	.39869E+02
9.31	0.00	23.27	97.0	0.102E+05	3.23	0.334	.40189E+02
9.39	0.00	23.37	97.8	0.101E+05	3.24	0.333	.40509E+02
9.46	0.00	23.47	98.7	0.100E+05	3.26	0.332	.40830E+02
9.53	0.00	23.57	99.5	0.992E+04	3.28	0.331	.41151E+02
9.61	0.00	23.67	100.3	0.984E+04	3.29	0.329	.41474E+02
9.68	0.00	23.77	101.2	0.976E+04	3.31	0.328	.41797E+02
9.76	0.00	23.88	102.0	0.967E+04	3.33	0.327	.42121E+02
9.83	0.00	23.98	102.9	0.959E+04	3.34	0.326	.42445E+02
9.90	0.00	24.08	103.7	0.951E+04	3.36	0.325	.42771E+02
9.98	0.00	24.18	104.6	0.943E+04	3.38	0.324	.43097E+02
10.05	0.00	24.28	105.5	0.936E+04	3.39	0.323	.43424E+02
10.13	0.00	24.38	106.3	0.928E+04	3.41	0.322	.43752E+02
10.20	0.00	24.48	107.2	0.920E+04	3.43	0.321	.44080E+02
10.28	0.00	24.58	108.1	0.913E+04	3.44	0.320	.44410E+02
10.35	0.00	24.68	108.9	0.905E+04	3.46	0.319	.44740E+02
10.43	0.00	24.78	109.8	0.898E+04	3.48	0.318	.45070E+02
10.51	0.00	24.88	110.7	0.891E+04	3.49	0.318	.45402E+02
10.58	0.00	24.98	111.6	0.884E+04	3.51	0.317	.45734E+02
10.66	0.00	25.08	112.5	0.877E+04	3.53	0.316	.46067E+02
10.73	0.00	25.18	113.4	0.870E+04	3.54	0.315	.46401E+02
10.81	0.00	25.28	114.3	0.863E+04	3.56	0.314	.46735E+02
10.88	0.00	25.38	115.2	0.856E+04	3.58	0.313	.47071E+02
10.96	0.00	25.48	116.1	0.849E+04	3.59	0.312	.47407E+02
11.04	0.00	25.58	117.0	0.843E+04	3.61	0.311	.47743E+02
11.11	0.00	25.68	117.9	0.836E+04	3.63	0.310	.48081E+02
11.19	0.00	25.78	118.8	0.829E+04	3.64	0.309	.48419E+02
11.27	0.00	25.87	119.7	0.823E+04	3.66	0.308	.48758E+02
11.34	0.00	25.97	120.6	0.817E+04	3.68	0.307	.49098E+02
11.42	0.00	26.07	121.5	0.810E+04	3.69	0.307	.49438E+02
11.50	0.00	26.17	122.5	0.804E+04	3.71	0.306	.49779E+02
11.58	0.00	26.27	123.4	0.798E+04	3.73	0.305	.50121E+02
11.65	0.00	26.37	124.3	0.792E+04	3.74	0.304	.50464E+02
11.73	0.00	26.47	125.3	0.786E+04	3.76	0.303	.50807E+02
11.81	0.00	26.57	126.2	0.780E+04	3.78	0.302	.51151E+02
11.89	0.00	26.66	127.1	0.774E+04	3.79	0.301	.51496E+02
11.96	0.00	26.76	128.1	0.768E+04	3.81	0.300	.51841E+02
12.04	0.00	26.86	129.0	0.763E+04	3.83	0.300	.52187E+02
12.12	0.00	26.96	130.0	0.757E+04	3.84	0.299	.52534E+02
12.20	0.00	27.06	130.9	0.751E+04	3.86	0.298	.52882E+02
12.28	0.00	27.15	131.9	0.746E+04	3.88	0.297	.53230E+02
12.35	0.00	27.25	132.9	0.740E+04	3.89	0.296	.53579E+02
12.43	0.00	27.35	133.8	0.735E+04	3.91	0.296	.53929E+02
12.51	0.00	27.45	134.8	0.730E+04	3.93	0.295	.54279E+02
12.59	0.00	27.54	135.8	0.724E+04	3.94	0.294	.54630E+02
12.67	0.00	27.64	136.7	0.719E+04	3.96	0.293	.54982E+02
12.75	0.00	27.74	137.7	0.714E+04	3.98	0.292	.55335E+02
12.83	0.00	27.84	138.5	0.710E+04	3.99	0.292	.55604E+02

Cumulative travel time = 55.6042 sec (0.02 hrs)

END OF CORJET (MOD110): JET/PLUME NEAR-FIELD MIXING REGION

Prediction nueva EDAR coli

BEGIN MOD132: LAYER BOUNDARY IMPINGEMENT/UPSTREAM SPREADING

Vertical angle of layer/boundary impingement = 50.91 deg
Horizontal angle of layer/boundary impingement = 0.00 deg

UPSTREAM INTRUSION PROPERTIES:

Upstream intrusion length = 19.99 m
X-position of upstream stagnation point = -7.17 m
Thickness in intrusion region = 3.94 m
Half-width at downstream end = 28.34 m
Thickness at downstream end = 3.94 m

Control volume inflow:

X	Y	Z	S	C	B	TT
12.83	0.00	27.84	138.5	0.710E+04	3.99	.55604E+02

Profile definitions:

BV = top-hat thickness, measured vertically
BH = top-hat half-width, measured horizontally in Y-direction
ZU = upper plume boundary (Z-coordinate)
ZL = lower plume boundary (Z-coordinate)
S = hydrodynamic average (bulk) dilution
C = average (bulk) concentration (includes reaction effects, if any)
TT = Cumulative travel time

	X	Y	Z	S	C	BV	BH	ZU	ZL
TT	-7.17	0.00	31.90	9999.9	0.000E+00	0.00	0.00	31.90	31.90
.19732E+03	-6.48	0.00	31.90	597.8	0.164E+04	0.91	4.01	31.90	30.99
.55604E+02	-3.13	0.00	31.90	248.1	0.396E+04	2.20	9.74	31.90	29.70
.55604E+02	0.21	0.00	31.90	187.1	0.526E+04	2.92	13.17	31.90	28.98
.55604E+02	3.56	0.00	31.90	160.3	0.613E+04	3.41	15.88	31.90	28.49
.55604E+02	6.91	0.00	31.90	146.5	0.671E+04	3.73	18.19	31.90	28.17
.55604E+02	10.26	0.00	31.90	139.9	0.703E+04	3.90	20.24	31.90	28.00
.55604E+02	13.61	0.00	31.90	139.6	0.702E+04	3.94	22.10	31.90	27.96
.63403E+02	16.95	0.00	31.90	166.4	0.584E+04	3.94	23.82	31.90	27.96
.96883E+02	20.30	0.00	31.90	203.6	0.472E+04	3.94	25.41	31.90	27.96
.13036E+03	23.65	0.00	31.90	226.0	0.421E+04	3.94	26.92	31.90	27.96
.16384E+03	27.00	0.00	31.90	235.4	0.400E+04	3.94	28.34	31.90	27.96
.19732E+03	Cumulative travel time = 197.3242 sec (0.05 hrs)								

END OF MOD132: LAYER BOUNDARY IMPINGEMENT/UPSTREAM SPREADING

** End of NEAR-FIELD REGION (NFR) **

BEGIN MOD141: BUOYANT AMBIENT SPREADING

Profile definitions:

BV = top-hat thickness, measured vertically
BH = top-hat half-width, measured horizontally in Y-direction
ZU = upper plume boundary (Z-coordinate)
ZL = lower plume boundary (Z-coordinate)

Prediction nueva EDAR coli

S = hydrodynamic average (bulk) dilution

C = average (bulk) concentration (includes reaction effects, if any)

TT = Cumulative travel time

Plume Stage 1 (not bank attached):

TT	X	Y	Z	S	C	BV	BH	ZU	ZL
27.00	0.00	31.90	235.4	0.400E+04	3.94	28.34	31.90	27.96	
.19732E+03	30.34	0.00	31.90	239.3	0.390E+04	3.79	29.97	31.90	28.11
.23078E+03	33.69	0.00	31.90	243.0	0.380E+04	3.66	31.54	31.90	28.24
.26424E+03	37.04	0.00	31.90	246.5	0.370E+04	3.54	33.08	31.90	28.36
.29770E+03	40.38	0.00	31.90	250.0	0.361E+04	3.43	34.59	31.90	28.47
.33116E+03	43.73	0.00	31.90	253.5	0.353E+04	3.34	36.06	31.90	28.56
.36462E+03	47.07	0.00	31.90	256.8	0.345E+04	3.25	37.50	31.90	28.65
.39808E+03	50.42	0.00	31.90	260.2	0.337E+04	3.18	38.92	31.90	28.72
.43154E+03	53.77	0.00	31.90	263.5	0.329E+04	3.11	40.30	31.90	28.79
.46500E+03	57.11	0.00	31.90	266.8	0.322E+04	3.04	41.67	31.90	28.86
.49846E+03	60.46	0.00	31.90	270.1	0.315E+04	2.98	43.01	31.90	28.92
.53192E+03	63.80	0.00	31.90	273.3	0.308E+04	2.93	44.33	31.90	28.97
.56538E+03	67.15	0.00	31.90	276.6	0.301E+04	2.88	45.64	31.90	29.02
.59884E+03	70.50	0.00	31.90	279.9	0.294E+04	2.83	46.92	31.90	29.07
.63230E+03	73.84	0.00	31.90	283.3	0.288E+04	2.79	48.19	31.90	29.11
.66576E+03	77.19	0.00	31.90	286.6	0.282E+04	2.75	49.43	31.90	29.15
.69922E+03	80.53	0.00	31.90	290.0	0.276E+04	2.72	50.67	31.90	29.18
.73268E+03	83.88	0.00	31.90	293.4	0.270E+04	2.69	51.89	31.90	29.21
.76614E+03	87.23	0.00	31.90	296.9	0.264E+04	2.66	53.09	31.90	29.24
.79960E+03	90.57	0.00	31.90	300.4	0.258E+04	2.63	54.28	31.90	29.27
.83306E+03	93.92	0.00	31.90	303.9	0.252E+04	2.60	55.46	31.90	29.30
.86652E+03	97.26	0.00	31.90	307.5	0.247E+04	2.58	56.62	31.90	29.32
.89998E+03	100.61	0.00	31.90	311.2	0.242E+04	2.56	57.77	31.90	29.34
.93344E+03	103.96	0.00	31.90	314.9	0.236E+04	2.54	58.91	31.90	29.36
.96690E+03	107.30	0.00	31.90	318.7	0.231E+04	2.52	60.04	31.90	29.38
.10004E+04	110.65	0.00	31.90	322.5	0.226E+04	2.50	61.16	31.90	29.40
.10338E+04	113.99	0.00	31.90	326.4	0.221E+04	2.49	62.27	31.90	29.41
.10673E+04	117.34	0.00	31.90	330.4	0.216E+04	2.48	63.37	31.90	29.42
.11007E+04	120.69	0.00	31.90	334.4	0.211E+04	2.46	64.46	31.90	29.44
.11342E+04	124.03	0.00	31.90	338.5	0.207E+04	2.45	65.54	31.90	29.45
.11677E+04	127.38	0.00	31.90	342.7	0.202E+04	2.44	66.61	31.90	29.46

Prediction nueva EDAR coli

. 12011E+04								
130.72	0.00	31.90	346.9	0.198E+04	2.44	67.67	31.90	29.46
. 12346E+04								
134.07	0.00	31.90	351.3	0.193E+04	2.43	68.72	31.90	29.47
. 12680E+04								
137.42	0.00	31.90	355.7	0.189E+04	2.42	69.77	31.90	29.48
. 13015E+04								
140.76	0.00	31.90	360.2	0.185E+04	2.42	70.80	31.90	29.48
. 13350E+04								
144.11	0.00	31.90	364.7	0.180E+04	2.41	71.83	31.90	29.49
. 13684E+04								
147.45	0.00	31.90	369.4	0.176E+04	2.41	72.85	31.90	29.49
. 14019E+04								
150.80	0.00	31.90	374.1	0.172E+04	2.41	73.87	31.90	29.49
. 14353E+04								
154.15	0.00	31.90	378.9	0.168E+04	2.40	74.88	31.90	29.50
. 14688E+04								
157.49	0.00	31.90	383.8	0.165E+04	2.40	75.88	31.90	29.50
. 15023E+04								
160.84	0.00	31.90	388.8	0.161E+04	2.40	76.87	31.90	29.50
. 15357E+04								
164.18	0.00	31.90	393.9	0.157E+04	2.40	77.86	31.90	29.50
. 15692E+04								
167.53	0.00	31.90	399.1	0.154E+04	2.40	78.84	31.90	29.50
. 16026E+04								
170.88	0.00	31.90	404.4	0.150E+04	2.41	79.81	31.90	29.49
. 16361E+04								
174.22	0.00	31.90	409.7	0.147E+04	2.41	80.78	31.90	29.49
. 16696E+04								
177.57	0.00	31.90	415.2	0.143E+04	2.41	81.74	31.90	29.49
. 17030E+04								
180.91	0.00	31.90	420.7	0.140E+04	2.42	82.70	31.90	29.48
. 17365E+04								
184.26	0.00	31.90	426.4	0.137E+04	2.42	83.65	31.90	29.48
. 17699E+04								
187.61	0.00	31.90	432.1	0.133E+04	2.43	84.60	31.90	29.47
. 18034E+04								
190.95	0.00	31.90	437.9	0.130E+04	2.43	85.54	31.90	29.47
. 18369E+04								
194.30	0.00	31.90	443.9	0.127E+04	2.44	86.48	31.90	29.46
. 18703E+04								
197.64	0.00	31.90	449.9	0.124E+04	2.44	87.41	31.90	29.46
. 19038E+04								
200.99	0.00	31.90	456.0	0.121E+04	2.45	88.33	31.90	29.45
. 19372E+04								
204.34	0.00	31.90	462.3	0.118E+04	2.46	89.25	31.90	29.44
. 19707E+04								
207.68	0.00	31.90	468.6	0.116E+04	2.47	90.17	31.90	29.43
. 20042E+04								
211.03	0.00	31.90	475.1	0.113E+04	2.48	91.08	31.90	29.42
. 20376E+04								
214.37	0.00	31.90	481.6	0.110E+04	2.49	91.99	31.90	29.41
. 20711E+04								
217.72	0.00	31.90	488.3	0.108E+04	2.50	92.89	31.90	29.40
. 21045E+04								
221.07	0.00	31.90	495.0	0.105E+04	2.51	93.78	31.90	29.39
. 21380E+04								
224.41	0.00	31.90	501.9	0.103E+04	2.52	94.68	31.90	29.38
. 21715E+04								
227.76	0.00	31.90	508.9	0.100E+04	2.53	95.57	31.90	29.37
. 22049E+04								
231.10	0.00	31.90	515.9	0.978E+03	2.54	96.45	31.90	29.36
. 22384E+04								
234.45	0.00	31.90	523.1	0.955E+03	2.55	97.33	31.90	29.35
. 22718E+04								
237.80	0.00	31.90	530.4	0.932E+03	2.57	98.21	31.90	29.33
. 23053E+04								
241.14	0.00	31.90	537.8	0.910E+03	2.58	99.08	31.90	29.32

Prediction nueva EDAR coli

. 23388E+04								
244.49	0.00	31.90	545.4	0.888E+03	2.59	99.95	31.90	29.31
. 23722E+04								
247.83	0.00	31.90	553.0	0.867E+03	2.61	100.81	31.90	29.29
. 24057E+04								
251.18	0.00	31.90	560.7	0.846E+03	2.62	101.68	31.90	29.28
. 24391E+04								
254.53	0.00	31.90	568.6	0.826E+03	2.63	102.53	31.90	29.27
. 24726E+04								
257.87	0.00	31.90	576.6	0.806E+03	2.65	103.39	31.90	29.25
. 25061E+04								
261.22	0.00	31.90	584.6	0.787E+03	2.66	104.24	31.90	29.24
. 25395E+04								
264.56	0.00	31.90	592.9	0.768E+03	2.68	105.09	31.90	29.22
. 25730E+04								
267.91	0.00	31.90	601.2	0.750E+03	2.70	105.93	31.90	29.20
. 26064E+04								
271.26	0.00	31.90	609.6	0.732E+03	2.71	106.77	31.90	29.19
. 26399E+04								
274.60	0.00	31.90	618.2	0.715E+03	2.73	107.61	31.90	29.17
. 26734E+04								
277.95	0.00	31.90	626.8	0.698E+03	2.75	108.44	31.90	29.15
. 27068E+04								
281.29	0.00	31.90	635.6	0.681E+03	2.76	109.27	31.90	29.14
. 27403E+04								
284.64	0.00	31.90	644.5	0.665E+03	2.78	110.10	31.90	29.12
. 27737E+04								
287.99	0.00	31.90	653.5	0.649E+03	2.80	110.92	31.90	29.10
. 28072E+04								
291.33	0.00	31.90	662.7	0.633E+03	2.82	111.74	31.90	29.08
. 28407E+04								
294.68	0.00	31.90	671.9	0.618E+03	2.84	112.56	31.90	29.06
. 28741E+04								
298.02	0.00	31.90	681.3	0.604E+03	2.85	113.38	31.90	29.05
. 29076E+04								
301.37	0.00	31.90	690.8	0.589E+03	2.87	114.19	31.90	29.03
. 29410E+04								
304.72	0.00	31.90	700.5	0.575E+03	2.89	115.00	31.90	29.01
. 29745E+04								
308.06	0.00	31.90	710.2	0.562E+03	2.91	115.80	31.90	28.99
. 30080E+04								
311.41	0.00	31.90	720.1	0.548E+03	2.93	116.61	31.90	28.97
. 30414E+04								
314.75	0.00	31.90	730.1	0.535E+03	2.95	117.41	31.90	28.95
. 30749E+04								
318.10	0.00	31.90	740.2	0.523E+03	2.97	118.21	31.90	28.93
. 31083E+04								
321.45	0.00	31.90	750.5	0.510E+03	3.00	119.00	31.90	28.90
. 31418E+04								

WATER QUALITY STANDARD OR CCC HAS BEEN FOUND

The pollutant concentration in the plume falls below water quality standard or CCC value of 0.500E+03 in the current prediction interval.

This is the spatial extent of concentrations exceeding the water quality standard or CCC value.

324.79	0.00	31.90	760.9	0.498E+03	3.02	119.79	31.90	28.88
. 31753E+04								
328.14	0.00	31.90	771.4	0.486E+03	3.04	120.59	31.90	28.86
. 32087E+04								
331.48	0.00	31.90	782.0	0.475E+03	3.06	121.37	31.90	28.84
. 32422E+04								
334.83	0.00	31.90	792.7	0.464E+03	3.08	122.16	31.90	28.82
. 32756E+04								
338.18	0.00	31.90	803.6	0.453E+03	3.10	122.94	31.90	28.80
. 33091E+04								
341.52	0.00	31.90	814.6	0.442E+03	3.13	123.72	31.90	28.77
. 33426E+04								
344.87	0.00	31.90	825.8	0.432E+03	3.15	124.50	31.90	28.75
. 33760E+04								

Predicción nueva EDAR col i								
348.21	0.00	31.90	837.0	0.422E+03	3.17	125.27	31.90	28.73
.34095E+04								
351.56	0.00	31.90	848.4	0.412E+03	3.20	126.05	31.90	28.70
.34430E+04								
354.91	0.00	31.90	860.0	0.402E+03	3.22	126.82	31.90	28.68
.34764E+04								
358.25	0.00	31.90	871.6	0.393E+03	3.25	127.59	31.90	28.65
.35099E+04								
361.60	0.00	31.90	883.4	0.383E+03	3.27	128.35	31.90	28.63
.35433E+04								
364.94	0.00	31.90	895.3	0.374E+03	3.29	129.12	31.90	28.61
.35768E+04								
368.29	0.00	31.90	907.4	0.366E+03	3.32	129.88	31.90	28.58
.36103E+04								
371.64	0.00	31.90	919.6	0.357E+03	3.34	130.64	31.90	28.56
.36437E+04								
374.98	0.00	31.90	931.9	0.349E+03	3.37	131.39	31.90	28.53
.36772E+04								
378.33	0.00	31.90	944.3	0.341E+03	3.39	132.15	31.90	28.51
.37106E+04								
381.67	0.00	31.90	956.9	0.333E+03	3.42	132.90	31.90	28.48
.37441E+04								
385.02	0.00	31.90	969.6	0.325E+03	3.45	133.65	31.90	28.45
.37776E+04								
388.37	0.00	31.90	982.5	0.318E+03	3.47	134.40	31.90	28.43
.38110E+04								
391.71	0.00	31.90	995.5	0.310E+03	3.50	135.15	31.90	28.40
.38445E+04								
395.06	0.00	31.90	1008.6	0.303E+03	3.53	135.89	31.90	28.37
.38779E+04								
398.40	0.00	31.90	1021.9	0.296E+03	3.55	136.63	31.90	28.35
.39114E+04								
401.75	0.00	31.90	1035.3	0.289E+03	3.58	137.37	31.90	28.32
.39449E+04								
405.10	0.00	31.90	1048.8	0.283E+03	3.61	138.11	31.90	28.29
.39783E+04								
408.44	0.00	31.90	1062.5	0.276E+03	3.63	138.85	31.90	28.27
.40118E+04								
411.79	0.00	31.90	1076.3	0.270E+03	3.66	139.58	31.90	28.24
.40452E+04								
415.13	0.00	31.90	1090.2	0.264E+03	3.69	140.32	31.90	28.21
.40787E+04								
418.48	0.00	31.90	1104.3	0.258E+03	3.72	141.05	31.90	28.18
.41122E+04								
421.83	0.00	31.90	1118.5	0.252E+03	3.75	141.78	31.90	28.15
.41456E+04								
425.17	0.00	31.90	1132.9	0.246E+03	3.78	142.50	31.90	28.12
.41791E+04								
428.52	0.00	31.90	1147.4	0.241E+03	3.81	143.23	31.90	28.09
.42125E+04								
431.86	0.00	31.90	1162.0	0.235E+03	3.83	143.95	31.90	28.07
.42460E+04								
435.21	0.00	31.90	1176.8	0.230E+03	3.86	144.67	31.90	28.04
.42795E+04								
438.56	0.00	31.90	1191.7	0.225E+03	3.89	145.39	31.90	28.01
.43129E+04								
441.90	0.00	31.90	1206.8	0.220E+03	3.92	146.11	31.90	27.98
.43464E+04								
445.25	0.00	31.90	1222.0	0.215E+03	3.95	146.83	31.90	27.95
.43798E+04								
448.59	0.00	31.90	1237.3	0.210E+03	3.98	147.54	31.90	27.92
.44133E+04								
451.94	0.00	31.90	1252.8	0.205E+03	4.01	148.26	31.90	27.89
.44468E+04								
455.29	0.00	31.90	1268.5	0.201E+03	4.04	148.97	31.90	27.86
.44802E+04								
458.63	0.00	31.90	1284.2	0.196E+03	4.08	149.68	31.90	27.82
.45137E+04								

Predi cti on nueva EDAR col i								
461.98	0.00	31.90	1300.2	0.192E+03	4.11	150.38	31.90	27.79
.45471E+04								
465.32	0.00	31.90	1316.2	0.187E+03	4.14	151.09	31.90	27.76
.45806E+04								
468.67	0.00	31.90	1332.4	0.183E+03	4.17	151.80	31.90	27.73
.46141E+04								
472.02	0.00	31.90	1348.8	0.179E+03	4.20	152.50	31.90	27.70
.46475E+04								
475.36	0.00	31.90	1365.3	0.175E+03	4.23	153.20	31.90	27.67
.46810E+04								
478.71	0.00	31.90	1381.9	0.171E+03	4.27	153.90	31.90	27.63
.47144E+04								
482.05	0.00	31.90	1398.7	0.168E+03	4.30	154.60	31.90	27.60
.47479E+04								
485.40	0.00	31.90	1415.7	0.164E+03	4.33	155.30	31.90	27.57
.47814E+04								
488.75	0.00	31.90	1432.7	0.160E+03	4.36	155.99	31.90	27.54
.48148E+04								
492.09	0.00	31.90	1450.0	0.157E+03	4.40	156.68	31.90	27.50
.48483E+04								
495.44	0.00	31.90	1467.4	0.153E+03	4.43	157.38	31.90	27.47
.48817E+04								
498.78	0.00	31.90	1484.9	0.150E+03	4.46	158.07	31.90	27.44
.49152E+04								
502.13	0.00	31.90	1502.6	0.147E+03	4.50	158.76	31.90	27.40
.49487E+04								
505.48	0.00	31.90	1520.4	0.144E+03	4.53	159.45	31.90	27.37
.49821E+04								
508.82	0.00	31.90	1538.3	0.140E+03	4.56	160.13	31.90	27.34
.50156E+04								
512.17	0.00	31.90	1556.5	0.137E+03	4.60	160.82	31.90	27.30
.50490E+04								
515.51	0.00	31.90	1574.7	0.134E+03	4.63	161.50	31.90	27.27
.50825E+04								
518.86	0.00	31.90	1593.2	0.131E+03	4.67	162.18	31.90	27.23
.51160E+04								
522.21	0.00	31.90	1611.7	0.129E+03	4.70	162.86	31.90	27.20
.51494E+04								
525.55	0.00	31.90	1630.4	0.126E+03	4.74	163.54	31.90	27.16
.51829E+04								
528.90	0.00	31.90	1649.3	0.123E+03	4.77	164.22	31.90	27.13
.52163E+04								
532.24	0.00	31.90	1668.3	0.121E+03	4.81	164.90	31.90	27.09
.52498E+04								
535.59	0.00	31.90	1687.5	0.118E+03	4.84	165.57	31.90	27.06
.52833E+04								
538.94	0.00	31.90	1706.8	0.115E+03	4.88	166.25	31.90	27.02
.53167E+04								
542.28	0.00	31.90	1726.3	0.113E+03	4.91	166.92	31.90	26.99
.53502E+04								
545.63	0.00	31.90	1745.9	0.111E+03	4.95	167.59	31.90	26.95
.53836E+04								
548.98	0.00	31.90	1765.7	0.108E+03	4.98	168.26	31.90	26.92
.54171E+04								
552.32	0.00	31.90	1785.7	0.106E+03	5.02	168.93	31.90	26.88
.54506E+04								
555.67	0.00	31.90	1805.8	0.104E+03	5.06	169.59	31.90	26.84
.54840E+04								
559.01	0.00	31.90	1826.0	0.101E+03	5.09	170.26	31.90	26.81
.55175E+04								
562.36	0.00	31.90	1846.4	0.993E+02	5.13	170.93	31.90	26.77
.55509E+04								
565.71	0.00	31.90	1867.0	0.972E+02	5.17	171.59	31.90	26.73
.55844E+04								
569.05	0.00	31.90	1887.7	0.952E+02	5.21	172.25	31.90	26.69
.56179E+04								
572.40	0.00	31.90	1908.5	0.932E+02	5.24	172.91	31.90	26.66
.56513E+04								

Predicción nueva EDAR col i								
575.74	0.00	31.90	1929.5	0.912E+02	5.28	173.57	31.90	26.62
.56848E+04								
579.09	0.00	31.90	1950.7	0.893E+02	5.32	174.23	31.90	26.58
.57182E+04								
582.44	0.00	31.90	1972.0	0.875E+02	5.36	174.89	31.90	26.54
.57517E+04								
585.78	0.00	31.90	1993.5	0.856E+02	5.39	175.54	31.90	26.51
.57852E+04								
589.13	0.00	31.90	2015.2	0.839E+02	5.43	176.20	31.90	26.47
.58186E+04								
592.47	0.00	31.90	2037.0	0.821E+02	5.47	176.85	31.90	26.43
.58521E+04								
595.82	0.00	31.90	2058.9	0.804E+02	5.51	177.50	31.90	26.39
.58855E+04								
599.17	0.00	31.90	2081.1	0.788E+02	5.55	178.16	31.90	26.35
.59190E+04								
602.51	0.00	31.90	2103.3	0.771E+02	5.59	178.81	31.90	26.31
.59525E+04								
605.86	0.00	31.90	2125.8	0.755E+02	5.63	179.45	31.90	26.27
.59859E+04								
609.20	0.00	31.90	2148.4	0.740E+02	5.67	180.10	31.90	26.23
.60194E+04								
612.55	0.00	31.90	2171.1	0.725E+02	5.71	180.75	31.90	26.19
.60528E+04								
615.90	0.00	31.90	2194.0	0.710E+02	5.75	181.39	31.90	26.15
.60863E+04								
619.24	0.00	31.90	2217.1	0.695E+02	5.79	182.04	31.90	26.11
.61198E+04								
622.59	0.00	31.90	2240.3	0.681E+02	5.83	182.68	31.90	26.07
.61532E+04								
625.93	0.00	31.90	2263.7	0.667E+02	5.87	183.32	31.90	26.03
.61867E+04								
629.28	0.00	31.90	2287.3	0.654E+02	5.91	183.97	31.90	25.99
.62201E+04								
632.63	0.00	31.90	2311.0	0.640E+02	5.95	184.61	31.90	25.95
.62536E+04								
635.97	0.00	31.90	2334.8	0.627E+02	5.99	185.24	31.90	25.91
.62871E+04								
639.32	0.00	31.90	2358.9	0.615E+02	6.03	185.88	31.90	25.87
.63205E+04								
642.66	0.00	31.90	2383.1	0.602E+02	6.07	186.52	31.90	25.83
.63540E+04								
646.01	0.00	31.90	2407.4	0.590E+02	6.11	187.15	31.90	25.79
.63874E+04								
649.36	0.00	31.90	2431.9	0.578E+02	6.15	187.79	31.90	25.75
.64209E+04								
652.70	0.00	31.90	2456.6	0.566E+02	6.19	188.42	31.90	25.71
.64544E+04								
656.05	0.00	31.90	2481.5	0.555E+02	6.23	189.06	31.90	25.67
.64878E+04								
659.39	0.00	31.90	2506.5	0.544E+02	6.28	189.69	31.90	25.62
.65213E+04								
662.74	0.00	31.90	2531.7	0.533E+02	6.32	190.32	31.90	25.58
.65547E+04								
666.09	0.00	31.90	2557.0	0.522E+02	6.36	190.95	31.90	25.54
.65882E+04								
669.43	0.00	31.90	2582.5	0.512E+02	6.40	191.58	31.90	25.50
.66217E+04								
672.78	0.00	31.90	2608.2	0.502E+02	6.45	192.20	31.90	25.45
.66551E+04								
676.12	0.00	31.90	2634.0	0.492E+02	6.49	192.83	31.90	25.41
.66886E+04								
679.47	0.00	31.90	2660.0	0.482E+02	6.53	193.45	31.90	25.37
.67220E+04								
682.82	0.00	31.90	2686.1	0.473E+02	6.57	194.08	31.90	25.33
.67555E+04								
686.16	0.00	31.90	2712.5	0.463E+02	6.62	194.70	31.90	25.28
.67890E+04								

Predicción nueva EDAR coli								
689.51	0.00	31.90	2739.0	0.454E+02	6.66	195.33	31.90	25.24
.68224E+04								
692.85	0.00	31.90	2765.6	0.445E+02	6.70	195.95	31.90	25.20
.68559E+04								
696.20	0.00	31.90	2792.4	0.436E+02	6.75	196.57	31.90	25.15
.68893E+04								
699.55	0.00	31.90	2819.4	0.428E+02	6.79	197.19	31.90	25.11
.69228E+04								
702.89	0.00	31.90	2846.6	0.419E+02	6.84	197.81	31.90	25.06
.69563E+04								
706.24	0.00	31.90	2873.9	0.411E+02	6.88	198.42	31.90	25.02
.69897E+04								
709.58	0.00	31.90	2901.4	0.403E+02	6.92	199.04	31.90	24.98
.70232E+04								
712.93	0.00	31.90	2929.1	0.395E+02	6.97	199.66	31.90	24.93
.70566E+04								
716.28	0.00	31.90	2956.9	0.388E+02	7.01	200.27	31.90	24.89
.70901E+04								
719.62	0.00	31.90	2984.9	0.380E+02	7.06	200.88	31.90	24.84
.71236E+04								
722.97	0.00	31.90	3013.0	0.373E+02	7.10	201.50	31.90	24.80
.71570E+04								
726.31	0.00	31.90	3041.4	0.365E+02	7.15	202.11	31.90	24.75
.71905E+04								
729.66	0.00	31.90	3069.9	0.358E+02	7.19	202.72	31.90	24.71
.72239E+04								
733.01	0.00	31.90	3098.6	0.351E+02	7.24	203.33	31.90	24.66
.72574E+04								
736.35	0.00	31.90	3127.4	0.345E+02	7.28	203.94	31.90	24.62
.72909E+04								
739.70	0.00	31.90	3156.4	0.338E+02	7.33	204.55	31.90	24.57
.73243E+04								
743.04	0.00	31.90	3185.6	0.331E+02	7.38	205.16	31.90	24.52
.73578E+04								
746.39	0.00	31.90	3214.9	0.325E+02	7.42	205.76	31.90	24.48
.73912E+04								
749.74	0.00	31.90	3244.5	0.319E+02	7.47	206.37	31.90	24.43
.74247E+04								
753.08	0.00	31.90	3274.2	0.313E+02	7.51	206.97	31.90	24.39
.74582E+04								
756.43	0.00	31.90	3304.0	0.307E+02	7.56	207.58	31.90	24.34
.74916E+04								
759.77	0.00	31.90	3334.1	0.301E+02	7.61	208.18	31.90	24.29
.75251E+04								
763.12	0.00	31.90	3364.3	0.295E+02	7.65	208.78	31.90	24.25
.75585E+04								
766.47	0.00	31.90	3394.6	0.290E+02	7.70	209.39	31.90	24.20
.75920E+04								
769.81	0.00	31.90	3425.2	0.284E+02	7.75	209.99	31.90	24.15
.76255E+04								
773.16	0.00	31.90	3455.9	0.279E+02	7.80	210.59	31.90	24.10
.76589E+04								
776.50	0.00	31.90	3486.8	0.273E+02	7.84	211.19	31.90	24.06
.76924E+04								
779.85	0.00	31.90	3517.9	0.268E+02	7.89	211.78	31.90	24.01
.77258E+04								
783.20	0.00	31.90	3549.1	0.263E+02	7.94	212.38	31.90	23.96
.77593E+04								
786.54	0.00	31.90	3580.6	0.258E+02	7.99	212.98	31.90	23.91
.77928E+04								
789.89	0.00	31.90	3612.1	0.253E+02	8.03	213.57	31.90	23.87
.78262E+04								
793.23	0.00	31.90	3643.9	0.249E+02	8.08	214.17	31.90	23.82
.78597E+04								
796.58	0.00	31.90	3675.9	0.244E+02	8.13	214.76	31.90	23.77
.78931E+04								
799.93	0.00	31.90	3708.0	0.239E+02	8.18	215.36	31.90	23.72
.79266E+04								

Prediction nueva EDAR coli								
803.27	0.00	31.90	3740.3	0.235E+02	8.23	215.95	31.90	23.67
.79601E+04								
806.62	0.00	31.90	3772.7	0.230E+02	8.28	216.54	31.90	23.62
.79935E+04								
809.96	0.00	31.90	3805.4	0.226E+02	8.32	217.13	31.90	23.58
.80270E+04								
813.31	0.00	31.90	3838.2	0.222E+02	8.37	217.72	31.90	23.53
.80604E+04								
816.66	0.00	31.90	3871.2	0.218E+02	8.42	218.31	31.90	23.48
.80939E+04								
820.00	0.00	31.90	3904.3	0.214E+02	8.47	218.90	31.90	23.43
.81274E+04								
823.35	0.00	31.90	3937.7	0.210E+02	8.52	219.49	31.90	23.38
.81608E+04								
826.69	0.00	31.90	3971.2	0.206E+02	8.57	220.07	31.90	23.33
.81943E+04								
830.04	0.00	31.90	4004.9	0.202E+02	8.62	220.66	31.90	23.28
.82277E+04								
833.39	0.00	31.90	4038.8	0.198E+02	8.67	221.25	31.90	23.23
.82612E+04								
836.73	0.00	31.90	4072.8	0.195E+02	8.72	221.83	31.90	23.18
.82947E+04								
840.08	0.00	31.90	4107.1	0.191E+02	8.77	222.41	31.90	23.13
.83281E+04								
843.42	0.00	31.90	4141.5	0.188E+02	8.82	223.00	31.90	23.08
.83616E+04								
846.77	0.00	31.90	4176.1	0.184E+02	8.87	223.58	31.90	23.03
.83950E+04								
850.12	0.00	31.90	4210.8	0.181E+02	8.92	224.16	31.90	22.98
.84285E+04								
853.46	0.00	31.90	4245.8	0.177E+02	8.97	224.74	31.90	22.93
.84620E+04								
856.81	0.00	31.90	4280.9	0.174E+02	9.02	225.32	31.90	22.88
.84954E+04								
860.15	0.00	31.90	4316.2	0.171E+02	9.08	225.90	31.90	22.82
.85289E+04								
863.50	0.00	31.90	4351.7	0.168E+02	9.13	226.48	31.90	22.77
.85623E+04								
866.85	0.00	31.90	4387.3	0.165E+02	9.18	227.06	31.90	22.72
.85958E+04								
870.19	0.00	31.90	4423.2	0.162E+02	9.23	227.64	31.90	22.67
.86293E+04								
873.54	0.00	31.90	4459.2	0.159E+02	9.28	228.21	31.90	22.62
.86627E+04								
876.88	0.00	31.90	4495.4	0.156E+02	9.33	228.79	31.90	22.57
.86962E+04								
880.23	0.00	31.90	4531.8	0.153E+02	9.38	229.37	31.90	22.52
.87296E+04								
883.58	0.00	31.90	4568.3	0.150E+02	9.44	229.94	31.90	22.46
.87631E+04								
886.92	0.00	31.90	4605.1	0.148E+02	9.49	230.51	31.90	22.41
.87966E+04								
890.27	0.00	31.90	4642.0	0.145E+02	9.54	231.09	31.90	22.36
.88300E+04								
893.61	0.00	31.90	4679.1	0.142E+02	9.59	231.66	31.90	22.31
.88635E+04								
896.96	0.00	31.90	4716.4	0.140E+02	9.65	232.23	31.90	22.25
.88969E+04								
** REGULATORY MIXING ZONE BOUNDARY **								
In this prediction interval the plume DOWNSTREAM distance meets or exceeds the regulatory value = 900.00 m.								
This is the extent of the REGULATORY MIXING ZONE.								
900.31	0.00	31.90	4753.9	0.137E+02	9.70	232.80	31.90	22.20
.89304E+04								
903.65	0.00	31.90	4791.5	0.135E+02	9.75	233.37	31.90	22.15
.89639E+04								
907.00	0.00	31.90	4829.4	0.132E+02	9.81	233.94	31.90	22.09
.89973E+04								

Prediction nueva EDAR coli								
910.34	0.00	31.90	4867.4	0.130E+02	9.86	234.51	31.90	22.04
.90308E+04								
913.69	0.00	31.90	4905.6	0.128E+02	9.91	235.08	31.90	21.99
.90642E+04								
917.04	0.00	31.90	4944.0	0.126E+02	9.97	235.65	31.90	21.93
.90977E+04								
920.38	0.00	31.90	4982.5	0.123E+02	10.02	236.21	31.90	21.88
.91312E+04								
923.73	0.00	31.90	5021.3	0.121E+02	10.07	236.78	31.90	21.83
.91646E+04								
927.07	0.00	31.90	5060.2	0.119E+02	10.13	237.35	31.90	21.77
.91981E+04								
930.42	0.00	31.90	5099.3	0.117E+02	10.18	237.91	31.90	21.72
.92315E+04								
933.77	0.00	31.90	5138.6	0.115E+02	10.24	238.48	31.90	21.66
.92650E+04								
937.11	0.00	31.90	5178.1	0.113E+02	10.29	239.04	31.90	21.61
.92985E+04								
940.46	0.00	31.90	5217.8	0.111E+02	10.34	239.60	31.90	21.56
.93319E+04								
943.80	0.00	31.90	5257.6	0.109E+02	10.40	240.17	31.90	21.50
.93654E+04								
947.15	0.00	31.90	5297.7	0.107E+02	10.45	240.73	31.90	21.45
.93988E+04								
950.50	0.00	31.90	5337.9	0.105E+02	10.51	241.29	31.90	21.39
.94323E+04								
953.84	0.00	31.90	5378.3	0.103E+02	10.56	241.85	31.90	21.34
.94658E+04								
957.19	0.00	31.90	5418.9	0.101E+02	10.62	242.41	31.90	21.28
.94992E+04								
960.53	0.00	31.90	5459.7	0.995E+01	10.67	242.97	31.90	21.23
.95327E+04								
963.88	0.00	31.90	5500.7	0.978E+01	10.73	243.53	31.90	21.17
.95661E+04								
967.23	0.00	31.90	5541.8	0.960E+01	10.78	244.08	31.90	21.12
.95996E+04								
970.57	0.00	31.90	5583.2	0.944E+01	10.84	244.64	31.90	21.06
.96331E+04								
973.92	0.00	31.90	5624.7	0.927E+01	10.90	245.20	31.90	21.00
.96665E+04								
977.26	0.00	31.90	5666.4	0.911E+01	10.95	245.75	31.90	20.95
.97000E+04								
980.61	0.00	31.90	5708.3	0.895E+01	11.01	246.31	31.90	20.89
.97334E+04								
983.96	0.00	31.90	5750.4	0.879E+01	11.06	246.86	31.90	20.84
.97669E+04								
987.30	0.00	31.90	5792.7	0.864E+01	11.12	247.42	31.90	20.78
.98004E+04								
990.65	0.00	31.90	5835.2	0.849E+01	11.18	247.97	31.90	20.72
.98338E+04								
993.99	0.00	31.90	5877.8	0.834E+01	11.23	248.53	31.90	20.67
.98673E+04								
997.34	0.00	31.90	5920.7	0.820E+01	11.29	249.08	31.90	20.61
.99007E+04								
1000.69	0.00	31.90	5963.7	0.806E+01	11.35	249.63	31.90	20.55
.99342E+04								
1004.03	0.00	31.90	6006.9	0.792E+01	11.40	250.18	31.90	20.50
.99677E+04								
1007.38	0.00	31.90	6050.4	0.778E+01	11.46	250.73	31.90	20.44
.10001E+05								
1010.72	0.00	31.90	6094.0	0.765E+01	11.52	251.28	31.90	20.38
.10035E+05								
1014.07	0.00	31.90	6137.7	0.752E+01	11.58	251.83	31.90	20.32
.10068E+05								
1017.42	0.00	31.90	6181.7	0.739E+01	11.63	252.38	31.90	20.27
.10102E+05								
1020.76	0.00	31.90	6225.9	0.726E+01	11.69	252.93	31.90	20.21
.10135E+05								

Predicción nueva EDAR col i								
1024.11	0.00	31.90	6270.3	0.713E+01	11.75	253.48	31.90	20.15
.10168E+05								
1027.45	0.00	31.90	6314.8	0.701E+01	11.81	254.02	31.90	20.09
.10202E+05								
1030.80	0.00	31.90	6359.6	0.689E+01	11.87	254.57	31.90	20.03
.10235E+05								
1034.15	0.00	31.90	6404.5	0.677E+01	11.92	255.12	31.90	19.98
.10269E+05								
1037.49	0.00	31.90	6449.6	0.666E+01	11.98	255.66	31.90	19.92
.10302E+05								
1040.84	0.00	31.90	6494.9	0.654E+01	12.04	256.21	31.90	19.86
.10336E+05								
1044.18	0.00	31.90	6540.4	0.643E+01	12.10	256.75	31.90	19.80
.10369E+05								
1047.53	0.00	31.90	6586.1	0.632E+01	12.16	257.29	31.90	19.74
.10403E+05								
1050.88	0.00	31.90	6632.0	0.622E+01	12.22	257.84	31.90	19.68
.10436E+05								
1054.22	0.00	31.90	6678.1	0.611E+01	12.28	258.38	31.90	19.62
.10470E+05								
1057.57	0.00	31.90	6724.4	0.601E+01	12.34	258.92	31.90	19.56
.10503E+05								
1060.91	0.00	31.90	6770.9	0.590E+01	12.40	259.46	31.90	19.50
.10536E+05								
1064.26	0.00	31.90	6817.5	0.580E+01	12.45	260.00	31.90	19.45
.10570E+05								
1067.61	0.00	31.90	6864.4	0.571E+01	12.51	260.54	31.90	19.39
.10603E+05								
1070.95	0.00	31.90	6911.4	0.561E+01	12.57	261.08	31.90	19.33
.10637E+05								
1074.30	0.00	31.90	6958.7	0.551E+01	12.63	261.62	31.90	19.27
.10670E+05								
1077.64	0.00	31.90	7006.1	0.542E+01	12.69	262.16	31.90	19.21
.10704E+05								
1080.99	0.00	31.90	7053.7	0.533E+01	12.75	262.70	31.90	19.15
.10737E+05								
1084.34	0.00	31.90	7101.6	0.524E+01	12.81	263.24	31.90	19.09
.10771E+05								
1087.68	0.00	31.90	7149.6	0.515E+01	12.87	263.77	31.90	19.03
.10804E+05								
1091.03	0.00	31.90	7197.8	0.507E+01	12.94	264.31	31.90	18.96
.10838E+05								
1094.37	0.00	31.90	7246.2	0.498E+01	13.00	264.85	31.90	18.90
.10871E+05								
1097.72	0.00	31.90	7294.8	0.490E+01	13.06	265.38	31.90	18.84
.10905E+05								
1101.06	0.00	31.90	7343.6	0.482E+01	13.12	265.92	31.90	18.78
.10938E+05								
1104.41	0.00	31.90	7392.6	0.473E+01	13.18	266.45	31.90	18.72
.10971E+05								
1107.76	0.00	31.90	7441.8	0.466E+01	13.24	266.99	31.90	18.66
.11005E+05								
1111.10	0.00	31.90	7491.1	0.458E+01	13.30	267.52	31.90	18.60
.11038E+05								
1114.45	0.00	31.90	7540.7	0.450E+01	13.36	268.05	31.90	18.54
.11072E+05								
1117.79	0.00	31.90	7590.5	0.443E+01	13.42	268.58	31.90	18.48
.11105E+05								
1121.14	0.00	31.90	7640.5	0.435E+01	13.49	269.12	31.90	18.41
.11139E+05								
1124.49	0.00	31.90	7690.6	0.428E+01	13.55	269.65	31.90	18.35
.11172E+05								
1127.83	0.00	31.90	7741.0	0.421E+01	13.61	270.18	31.90	18.29
.11206E+05								
1131.18	0.00	31.90	7791.6	0.414E+01	13.67	270.71	31.90	18.23
.11239E+05								
1134.52	0.00	31.90	7842.3	0.407E+01	13.73	271.24	31.90	18.17
.11273E+05								

Predicción nueva EDAR col i								
1137.87	0.00	31.90	7893.3	0.400E+01	13.80	271.77	31.90	18.10
.11306E+05								
1141.22	0.00	31.90	7944.4	0.394E+01	13.86	272.30	31.90	18.04
.11340E+05								
1144.56	0.00	31.90	7995.8	0.387E+01	13.92	272.82	31.90	17.98
.11373E+05								
1147.91	0.00	31.90	8047.3	0.381E+01	13.98	273.35	31.90	17.92
.11406E+05								
1151.25	0.00	31.90	8099.1	0.375E+01	14.05	273.88	31.90	17.85
.11440E+05								
1154.60	0.00	31.90	8151.0	0.368E+01	14.11	274.41	31.90	17.79
.11473E+05								
1157.95	0.00	31.90	8203.1	0.362E+01	14.17	274.93	31.90	17.73
.11507E+05								
1161.29	0.00	31.90	8255.5	0.356E+01	14.24	275.46	31.90	17.66
.11540E+05								
1164.64	0.00	31.90	8308.0	0.350E+01	14.30	275.98	31.90	17.60
.11574E+05								
1167.98	0.00	31.90	8360.8	0.345E+01	14.36	276.51	31.90	17.54
.11607E+05								
1171.33	0.00	31.90	8413.7	0.339E+01	14.43	277.03	31.90	17.47
.11641E+05								
1174.68	0.00	31.90	8466.8	0.334E+01	14.49	277.56	31.90	17.41
.11674E+05								
1178.02	0.00	31.90	8520.2	0.328E+01	14.55	278.08	31.90	17.35
.11708E+05								
1181.37	0.00	31.90	8573.7	0.323E+01	14.62	278.60	31.90	17.28
.11741E+05								
1184.71	0.00	31.90	8627.4	0.317E+01	14.68	279.12	31.90	17.22
.11774E+05								
1188.06	0.00	31.90	8681.4	0.312E+01	14.75	279.65	31.90	17.15
.11808E+05								
1191.41	0.00	31.90	8735.5	0.307E+01	14.81	280.17	31.90	17.09
.11841E+05								
1194.75	0.00	31.90	8789.8	0.302E+01	14.87	280.69	31.90	17.03
.11875E+05								
1198.10	0.00	31.90	8844.4	0.297E+01	14.94	281.21	31.90	16.96
.11908E+05								
1201.44	0.00	31.90	8899.1	0.292E+01	15.00	281.73	31.90	16.90
.11942E+05								
1204.79	0.00	31.90	8954.1	0.288E+01	15.07	282.25	31.90	16.83
.11975E+05								
1208.14	0.00	31.90	9009.2	0.283E+01	15.13	282.77	31.90	16.77
.12009E+05								
1211.48	0.00	31.90	9064.5	0.278E+01	15.20	283.29	31.90	16.70
.12042E+05								
1214.83	0.00	31.90	9120.1	0.274E+01	15.26	283.80	31.90	16.64
.12076E+05								
1218.17	0.00	31.90	9175.8	0.269E+01	15.33	284.32	31.90	16.57
.12109E+05								
1221.52	0.00	31.90	9231.8	0.265E+01	15.40	284.84	31.90	16.50
.12143E+05								
1224.86	0.00	31.90	9287.9	0.261E+01	15.46	285.35	31.90	16.44
.12176E+05								
1228.21	0.00	31.90	9344.3	0.257E+01	15.53	285.87	31.90	16.37
.12209E+05								
1231.56	0.00	31.90	9400.8	0.252E+01	15.59	286.39	31.90	16.31
.12243E+05								
1234.90	0.00	31.90	9457.6	0.248E+01	15.66	286.90	31.90	16.24
.12276E+05								
1238.25	0.00	31.90	9514.5	0.244E+01	15.72	287.42	31.90	16.18
.12310E+05								
1241.59	0.00	31.90	9571.7	0.240E+01	15.79	287.93	31.90	16.11
.12343E+05								
1244.94	0.00	31.90	9629.1	0.237E+01	15.86	288.44	31.90	16.04
.12377E+05								
1248.29	0.00	31.90	9686.7	0.233E+01	15.92	288.96	31.90	15.98
.12410E+05								

Predicción nueva EDAR col i								
1251.63	0.00	31.90	9744.4	0.229E+01	15.99	289.47	31.90	15.91
.12444E+05								
1254.98	0.00	31.90	9802.4	0.225E+01	16.06	289.98	31.90	15.84
.12477E+05								
1258.32	0.00	31.90	9860.6	0.222E+01	16.12	290.50	31.90	15.78
.12511E+05								
1261.67	0.00	31.90	9919.0	0.218E+01	16.19	291.01	31.90	15.71
.12544E+05								
1265.02	0.00	31.90	9977.6	0.215E+01	16.26	291.52	31.90	15.64
.12578E+05								
1268.36	0.00	31.90	10036.4	0.211E+01	16.32	292.03	31.90	15.58
.12611E+05								
1271.71	0.00	31.90	10095.4	0.208E+01	16.39	292.54	31.90	15.51
.12644E+05								
1275.05	0.00	31.90	10154.6	0.205E+01	16.46	293.05	31.90	15.44
.12678E+05								
1278.40	0.00	31.90	10214.0	0.201E+01	16.53	293.56	31.90	15.37
.12711E+05								
1281.75	0.00	31.90	10273.6	0.198E+01	16.59	294.07	31.90	15.31
.12745E+05								
1285.09	0.00	31.90	10333.4	0.195E+01	16.66	294.58	31.90	15.24
.12778E+05								
1288.44	0.00	31.90	10393.4	0.192E+01	16.73	295.09	31.90	15.17
.12812E+05								
1291.78	0.00	31.90	10453.7	0.189E+01	16.80	295.59	31.90	15.10
.12845E+05								
1295.13	0.00	31.90	10514.1	0.186E+01	16.87	296.10	31.90	15.03
.12879E+05								
1298.48	0.00	31.90	10574.8	0.183E+01	16.93	296.61	31.90	14.97
.12912E+05								
1301.82	0.00	31.90	10635.6	0.180E+01	17.00	297.11	31.90	14.90
.12946E+05								
1305.17	0.00	31.90	10696.7	0.177E+01	17.07	297.62	31.90	14.83
.12979E+05								
1308.51	0.00	31.90	10758.0	0.174E+01	17.14	298.13	31.90	14.76
.13012E+05								
1311.86	0.00	31.90	10819.4	0.172E+01	17.21	298.63	31.90	14.69
.13046E+05								
1315.21	0.00	31.90	10881.1	0.169E+01	17.28	299.14	31.90	14.62
.13079E+05								
1318.55	0.00	31.90	10943.0	0.166E+01	17.35	299.64	31.90	14.55
.13113E+05								
1321.90	0.00	31.90	11005.1	0.164E+01	17.42	300.14	31.90	14.48
.13146E+05								
1325.24	0.00	31.90	11067.4	0.161E+01	17.49	300.65	31.90	14.41
.13180E+05								
1328.59	0.00	31.90	11129.9	0.159E+01	17.56	301.15	31.90	14.34
.13213E+05								
1331.94	0.00	31.90	11192.6	0.156E+01	17.62	301.65	31.90	14.28
.13247E+05								
1335.28	0.00	31.90	11255.6	0.154E+01	17.69	302.16	31.90	14.21
.13280E+05								
1338.63	0.00	31.90	11318.7	0.151E+01	17.76	302.66	31.90	14.14
.13314E+05								
1341.97	0.00	31.90	11382.0	0.149E+01	17.83	303.16	31.90	14.07
.13347E+05								
1345.32	0.00	31.90	11445.6	0.146E+01	17.90	303.66	31.90	14.00
.13381E+05								
1348.67	0.00	31.90	11509.4	0.144E+01	17.97	304.16	31.90	13.93
.13414E+05								
1352.01	0.00	31.90	11573.3	0.142E+01	18.04	304.66	31.90	13.86
.13447E+05								
1355.36	0.00	31.90	11637.5	0.140E+01	18.11	305.16	31.90	13.79
.13481E+05								
1358.70	0.00	31.90	11701.9	0.138E+01	18.18	305.66	31.90	13.72
.13514E+05								
1362.05	0.00	31.90	11766.5	0.135E+01	18.26	306.16	31.90	13.64
.13548E+05								

Predicción nueva EDAR col i								
1365.39	0.00	31.90	11831.3	0.133E+01	18.33	306.66	31.90	13.57
.13581E+05								
1368.74	0.00	31.90	11896.3	0.131E+01	18.40	307.16	31.90	13.50
.13615E+05								
1372.09	0.00	31.90	11961.6	0.129E+01	18.47	307.65	31.90	13.43
.13648E+05								
1375.43	0.00	31.90	12027.0	0.127E+01	18.54	308.15	31.90	13.36
.13682E+05								
1378.78	0.00	31.90	12092.7	0.125E+01	18.61	308.65	31.90	13.29
.13715E+05								
1382.12	0.00	31.90	12158.5	0.123E+01	18.68	309.15	31.90	13.22
.13749E+05								
1385.47	0.00	31.90	12224.6	0.121E+01	18.75	309.64	31.90	13.15
.13782E+05								
1388.82	0.00	31.90	12290.9	0.119E+01	18.82	310.14	31.90	13.08
.13816E+05								
1392.16	0.00	31.90	12357.4	0.118E+01	18.90	310.63	31.90	13.00
.13849E+05								
1395.51	0.00	31.90	12424.1	0.116E+01	18.97	311.13	31.90	12.93
.13882E+05								
1398.85	0.00	31.90	12491.0	0.114E+01	19.04	311.62	31.90	12.86
.13916E+05								
1402.20	0.00	31.90	12558.1	0.112E+01	19.11	312.12	31.90	12.79
.13949E+05								
1405.55	0.00	31.90	12625.5	0.110E+01	19.18	312.61	31.90	12.72
.13983E+05								
1408.89	0.00	31.90	12693.0	0.109E+01	19.26	313.11	31.90	12.64
.14016E+05								
1412.24	0.00	31.90	12760.8	0.107E+01	19.33	313.60	31.90	12.57
.14050E+05								
1415.58	0.00	31.90	12828.8	0.105E+01	19.40	314.09	31.90	12.50
.14083E+05								
1418.93	0.00	31.90	12897.0	0.104E+01	19.47	314.58	31.90	12.43
.14117E+05								
1422.28	0.00	31.90	12965.4	0.102E+01	19.55	315.08	31.90	12.35
.14150E+05								
1425.62	0.00	31.90	13034.0	0.101E+01	19.62	315.57	31.90	12.28
.14184E+05								
1428.97	0.00	31.90	13102.8	0.991E+00	19.69	316.06	31.90	12.21
.14217E+05								
1432.31	0.00	31.90	13171.9	0.976E+00	19.77	316.55	31.90	12.13
.14250E+05								
1435.66	0.00	31.90	13241.2	0.961E+00	19.84	317.04	31.90	12.06
.14284E+05								
1439.01	0.00	31.90	13310.6	0.946E+00	19.91	317.53	31.90	11.99
.14317E+05								
1442.35	0.00	31.90	13380.3	0.931E+00	19.99	318.02	31.90	11.91
.14351E+05								
1445.70	0.00	31.90	13450.2	0.917E+00	20.06	318.51	31.90	11.84
.14384E+05								
1449.04	0.00	31.90	13520.3	0.903E+00	20.13	319.00	31.90	11.77
.14418E+05								
1452.39	0.00	31.90	13590.7	0.889E+00	20.21	319.49	31.90	11.69
.14451E+05								
1455.74	0.00	31.90	13661.2	0.876E+00	20.28	319.98	31.90	11.62
.14485E+05								
1459.08	0.00	31.90	13732.0	0.862E+00	20.35	320.46	31.90	11.55
.14518E+05								
1462.43	0.00	31.90	13802.9	0.849E+00	20.43	320.95	31.90	11.47
.14552E+05								
1465.77	0.00	31.90	13874.1	0.836E+00	20.50	321.44	31.90	11.40
.14585E+05								
1469.12	0.00	31.90	13945.5	0.824E+00	20.58	321.92	31.90	11.32
.14619E+05								
1472.47	0.00	31.90	14017.1	0.811E+00	20.65	322.41	31.90	11.25
.14652E+05								
1475.81	0.00	31.90	14089.0	0.799E+00	20.73	322.90	31.90	11.17
.14685E+05								

Predicción nueva EDAR coli								
1479.16	0.00	31.90	14161.0	0.786E+00	20.80	323.38	31.90	11.10
.14719E+05								
1482.50	0.00	31.90	14233.3	0.775E+00	20.88	323.87	31.90	11.02
.14752E+05								
1485.85	0.00	31.90	14305.8	0.763E+00	20.95	324.35	31.90	10.95
.14786E+05								
1489.19	0.00	31.90	14378.5	0.751E+00	21.03	324.84	31.90	10.87
.14819E+05								
1492.54	0.00	31.90	14451.4	0.740E+00	21.10	325.32	31.90	10.80
.14853E+05								
1495.89	0.00	31.90	14524.5	0.729E+00	21.18	325.81	31.90	10.72
.14886E+05								
1499.23	0.00	31.90	14597.9	0.718E+00	21.25	326.29	31.90	10.65
.14920E+05								
1502.58	0.00	31.90	14671.4	0.707E+00	21.33	326.77	31.90	10.57
.14953E+05								
1505.92	0.00	31.90	14745.2	0.696E+00	21.40	327.26	31.90	10.50
.14987E+05								
1509.27	0.00	31.90	14819.2	0.685E+00	21.48	327.74	31.90	10.42
.15020E+05								
1512.62	0.00	31.90	14893.4	0.675E+00	21.55	328.22	31.90	10.35
.15054E+05								
1515.96	0.00	31.90	14967.9	0.665E+00	21.63	328.70	31.90	10.27
.15087E+05								
1519.31	0.00	31.90	15042.5	0.655E+00	21.71	329.18	31.90	10.19
.15120E+05								
1522.65	0.00	31.90	15117.4	0.645E+00	21.78	329.67	31.90	10.12
.15154E+05								
1526.00	0.00	31.90	15192.5	0.635E+00	21.86	330.15	31.90	10.04
.15187E+05								
1529.35	0.00	31.90	15267.8	0.626E+00	21.93	330.63	31.90	9.97
.15221E+05								
1532.69	0.00	31.90	15343.3	0.616E+00	22.01	331.11	31.90	9.89
.15254E+05								
1536.04	0.00	31.90	15419.0	0.607E+00	22.09	331.59	31.90	9.81
.15288E+05								
1539.38	0.00	31.90	15495.0	0.598E+00	22.16	332.07	31.90	9.74
.15321E+05								
1542.73	0.00	31.90	15571.2	0.589E+00	22.24	332.55	31.90	9.66
.15355E+05								
1546.08	0.00	31.90	15647.6	0.580E+00	22.32	333.02	31.90	9.58
.15388E+05								
1549.42	0.00	31.90	15724.2	0.571E+00	22.40	333.50	31.90	9.50
.15422E+05								
1552.77	0.00	31.90	15801.0	0.563E+00	22.47	333.98	31.90	9.43
.15455E+05								
1556.11	0.00	31.90	15878.1	0.554E+00	22.55	334.46	31.90	9.35
.15488E+05								
1559.46	0.00	31.90	15955.4	0.546E+00	22.63	334.94	31.90	9.27
.15522E+05								
1562.81	0.00	31.90	16032.9	0.538E+00	22.71	335.41	31.90	9.19
.15555E+05								
1566.15	0.00	31.90	16110.6	0.530E+00	22.78	335.89	31.90	9.12
.15589E+05								
1569.50	0.00	31.90	16188.5	0.522E+00	22.86	336.37	31.90	9.04
.15622E+05								
1572.84	0.00	31.90	16266.7	0.514E+00	22.94	336.84	31.90	8.96
.15656E+05								
1576.19	0.00	31.90	16345.0	0.507E+00	23.02	337.32	31.90	8.88
.15689E+05								
1579.54	0.00	31.90	16423.6	0.499E+00	23.09	337.79	31.90	8.81
.15723E+05								
1582.88	0.00	31.90	16502.5	0.492E+00	23.17	338.27	31.90	8.73
.15756E+05								
1586.23	0.00	31.90	16581.5	0.484E+00	23.25	338.74	31.90	8.65
.15790E+05								
1589.57	0.00	31.90	16660.8	0.477E+00	23.33	339.22	31.90	8.57
.15823E+05								

Prediction nueva EDAR coli								
1592.92	0.00	31.90	16740.2	0.470E+00	23.41	339.69	31.90	8.49
.15857E+05								
1596.27	0.00	31.90	16819.9	0.463E+00	23.49	340.17	31.90	8.41
.15890E+05								
1599.61	0.00	31.90	16899.9	0.456E+00	23.57	340.64	31.90	8.33
.15923E+05								
1602.96	0.00	31.90	16980.0	0.449E+00	23.64	341.11	31.90	8.26
.15957E+05								
1606.30	0.00	31.90	17060.4	0.443E+00	23.72	341.59	31.90	8.18
.15990E+05								
1609.65	0.00	31.90	17141.0	0.436E+00	23.80	342.06	31.90	8.10
.16024E+05								
1612.99	0.00	31.90	17221.8	0.430E+00	23.88	342.53	31.90	8.02
.16057E+05								
1616.34	0.00	31.90	17302.8	0.423E+00	23.96	343.00	31.90	7.94
.16091E+05								
1619.69	0.00	31.90	17384.1	0.417E+00	24.04	343.47	31.90	7.86
.16124E+05								
1623.03	0.00	31.90	17465.6	0.411E+00	24.12	343.94	31.90	7.78
.16158E+05								
1626.38	0.00	31.90	17547.3	0.405E+00	24.20	344.42	31.90	7.70
.16191E+05								
1629.72	0.00	31.90	17629.2	0.399E+00	24.28	344.89	31.90	7.62
.16225E+05								
1633.07	0.00	31.90	17711.3	0.393E+00	24.36	345.36	31.90	7.54
.16258E+05								
1636.42	0.00	31.90	17793.7	0.387E+00	24.44	345.83	31.90	7.46
.16292E+05								
1639.76	0.00	31.90	17876.3	0.381E+00	24.52	346.30	31.90	7.38
.16325E+05								
1643.11	0.00	31.90	17959.1	0.376E+00	24.60	346.77	31.90	7.30
.16358E+05								
1646.45	0.00	31.90	18042.2	0.370E+00	24.68	347.23	31.90	7.22
.16392E+05								
1649.80	0.00	31.90	18125.4	0.365E+00	24.76	347.70	31.90	7.14
.16425E+05								
1653.15	0.00	31.90	18208.9	0.359E+00	24.84	348.17	31.90	7.06
.16459E+05								
1656.49	0.00	31.90	18292.6	0.354E+00	24.92	348.64	31.90	6.98
.16492E+05								
1659.84	0.00	31.90	18376.6	0.349E+00	25.00	349.11	31.90	6.90
.16526E+05								
1663.18	0.00	31.90	18460.7	0.344E+00	25.08	349.57	31.90	6.82
.16559E+05								
1666.53	0.00	31.90	18545.1	0.339E+00	25.17	350.04	31.90	6.73
.16593E+05								
1669.88	0.00	31.90	18629.7	0.334E+00	25.25	350.51	31.90	6.65
.16626E+05								
1673.22	0.00	31.90	18714.6	0.329E+00	25.33	350.98	31.90	6.57
.16660E+05								
1676.57	0.00	31.90	18799.6	0.324E+00	25.41	351.44	31.90	6.49
.16693E+05								
1679.91	0.00	31.90	18884.9	0.319E+00	25.49	351.91	31.90	6.41
.16726E+05								
1683.26	0.00	31.90	18970.4	0.315E+00	25.57	352.37	31.90	6.33
.16760E+05								
1686.61	0.00	31.90	19056.2	0.310E+00	25.65	352.84	31.90	6.25
.16793E+05								
1689.95	0.00	31.90	19142.1	0.306E+00	25.74	353.30	31.90	6.16
.16827E+05								
1693.30	0.00	31.90	19228.3	0.301E+00	25.82	353.77	31.90	6.08
.16860E+05								
1696.64	0.00	31.90	19314.7	0.297E+00	25.90	354.23	31.90	6.00
.16894E+05								
1699.99	0.00	31.90	19401.4	0.292E+00	25.98	354.70	31.90	5.92
.16927E+05								
Cumulative travel time = 16927.3438 sec (4.70 hrs)								

END OF MOD141: BUOYANT AMBIENT SPREADING

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